
Amazon GuardDuty

Amazon Guard Duty User Guide



Amazon GuardDuty: Amazon Guard Duty User Guide

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What Is Amazon GuardDuty?

Amazon GuardDuty is a continuous security monitoring service that analyzes and processes the following [data sources](#): VPC Flow Logs, AWS CloudTrail event logs, and DNS logs. It uses threat intelligence feeds, such as lists of malicious IPs and domains, and machine learning to identify unexpected and potentially unauthorized and malicious activity within your AWS environment. This can include issues like escalations of privileges, uses of exposed credentials, or communication with malicious IPs, URLs, or domains. For example, GuardDuty can detect compromised EC2 instances serving malware or mining bitcoin. It also monitors AWS account access behavior for signs of compromise, such as unauthorized infrastructure deployments, like instances deployed in a region that has never been used, or unusual API calls, like a password policy change to reduce password strength.

GuardDuty informs you of the status of your AWS environment by producing security [findings \(p. 17\)](#) that you can view in the GuardDuty console or through [Amazon CloudWatch events \(p. 38\)](#).

Pricing for GuardDuty

For information about GuardDuty pricing, see [Amazon GuardDuty Pricing](#).

Accessing GuardDuty

You can work with GuardDuty in any of the following ways:

GuardDuty Console

<https://console.aws.amazon.com/guardduty>

The console is a browser-based interface to access and use GuardDuty.

AWS SDKs

AWS provides software development kits (SDKs) that consist of libraries and sample code for various programming languages and platforms (Java, Python, Ruby, .NET, iOS, Android, and more). The SDKs provide a convenient way to create programmatic access to GuardDuty. For information about the AWS SDKs, including how to download and install them, see [Tools for Amazon Web Services](#).

GuardDuty HTTPS API

You can access GuardDuty and AWS programmatically by using the GuardDuty HTTPS API, which lets you issue HTTPS requests directly to the service. For more information, see the [Amazon GuardDuty API Reference \(p. 40\)](#).

Amazon GuardDuty Terminology and Concepts

As you get started with Amazon GuardDuty, you can benefit from learning about its key concepts.

Account

A standard Amazon Web Services (AWS) account that contains your AWS resources. You can sign in to AWS with your account and enable GuardDuty.

You can also invite other accounts to enable GuardDuty and become associated with your AWS account in GuardDuty. If your invitations are accepted, your account is designated as the **master** GuardDuty account, and the added accounts become your **member** accounts. You can then view and manage those accounts' GuardDuty findings on their behalf.

Users of the master account can configure GuardDuty as well as view and manage GuardDuty findings for their own account and all of their member accounts. You can have up to 100 member accounts in GuardDuty.

Users of member accounts can configure GuardDuty as well as view and manage GuardDuty findings in their account (either through the GuardDuty management console or GuardDuty API). Users of member accounts can't view or manage findings in other members' accounts.

An AWS account can't be a GuardDuty master and member account at the same time. An AWS account can accept only one membership invitation. Accepting a membership invitation is optional.

For more information, see [Managing AWS Accounts in Amazon GuardDuty \(p. 33\)](#).

Data source

The origin or location of a set of data. To detect unauthorized and unexpected activity in your AWS environment, GuardDuty analyzes and processes data from the following data sources:

- AWS CloudTrail event logs
- VPC Flow Logs
- DNS logs

The logs from these data sources are stored in the Amazon S3 buckets. GuardDuty accesses them there using the HTTPS protocol. While in transit from these data sources to GuardDuty, all of the log data is encrypted. GuardDuty extracts various fields from these logs for profiling and anomaly detection, and then discards the logs.

AWS CloudTrail provides you with a history of AWS API calls for your account, including API calls made using the AWS Management Console, the AWS SDKs, the command line tools, and higher-level AWS services. AWS CloudTrail also allows you to identify which users and accounts called AWS APIs for services that support CloudTrail, the source IP address that the calls were made from, and when the calls occurred. For more information, see [What is AWS CloudTrail?](#)

VPC Flow Logs capture information about the IP traffic going to and from Amazon EC2 network interfaces in your VPC. For more information, see [VPC Flow Logs](#).

Important **VPC Flow Logs**

When you enable GuardDuty, it immediately starts analyzing your VPC Flow Logs data. It consumes VPC Flow Log events directly from the VPC Flow Logs feature through an

independent and duplicative stream of flow logs. This process does not affect any existing flow log configurations that you might have.

GuardDuty doesn't manage your flow logs or make them accessible in your account. To manage access and retention of your flow logs, you must configure the VPC Flow Logs feature.

There is no additional charge for GuardDuty access to flow logs. However, enabling flow logs for retention or use in your account falls under existing pricing. For more information, see [Working With Flow Logs](#).

Finding

A potential security issue discovered by GuardDuty. For more information, see [Amazon GuardDuty Findings \(p. 17\)](#).

Findings are displayed in the GuardDuty console and contain a detailed description of the security issue. You can also retrieve your generated findings by calling the [GetFindings \(p. 72\)](#) and [ListFindings \(p. 104\)](#) HTTPS API operations.

You can also see your GuardDuty findings through Amazon CloudWatch events. GuardDuty sends findings to Amazon CloudWatch via HTTPS protocol. For more information, see [Monitoring Amazon GuardDuty Findings with Amazon CloudWatch Events \(p. 38\)](#).

Trusted IP list

A list of whitelisted IP addresses for highly secure communication with your AWS environment. GuardDuty does not generate findings based on trusted IP lists. For more information, see [Uploading Trusted IP Lists and Threat Lists \(p. 31\)](#).

Threat list

A list of known malicious IP addresses. GuardDuty generates findings based on threat lists. For more information, see [Uploading Trusted IP Lists and Threat Lists \(p. 31\)](#).

Amazon GuardDuty Service Limits

The following are Amazon GuardDuty limits per AWS account:

Resource	Default Limit	Comments
Detectors	1	<p>The maximum number of detector resources that can be created and activated per AWS account.</p> <p>This is a hard limit. You cannot request a limit increase of detectors.</p>
Trusted IP sets	1	<p>The maximum number of trusted IP sets that can be uploaded and activated per AWS account.</p> <p>This is a hard limit. You cannot request a limit increase of trusted IP sets.</p>
Threat intel sets	6	<p>The maximum number of threat intel sets that can be uploaded and activated per AWS account.</p> <p>This is a hard limit. You cannot request a limit increase of threat intel sets.</p>
GuardDuty member accounts	100	<p>The maximum number of GuardDuty member accounts that can be added per AWS account (GuardDuty master account).</p> <p>This is a hard limit. You cannot request a limit increase of member accounts.</p>
GuardDuty finding retention time	90 days	<p>The maximum number of days a GuardDuty-generated finding is saved.</p>

Resource	Default Limit	Comments
		This is a hard limit. You cannot request a limit increase of finding retention days.

Amazon GuardDuty Supported Regions

Currently, Amazon GuardDuty is supported in the following AWS regions:

- Asia Pacific (Mumbai)
- Asia Pacific (Seoul)
- Asia Pacific (Singapore)
- Asia Pacific (Sydney)
- Asia Pacific (Tokyo)
- Canada (Central)
- EU (Frankfurt)
- EU (Ireland)
- EU (London)
- US East (N. Virginia)
- US East (Ohio)
- US West (N. California)
- US West (Oregon)
- South America (São Paulo)

Setting Up Amazon GuardDuty

You must have an AWS account in order to enable Amazon GuardDuty. If you don't have an account, use the following procedure to create one.

To sign up for AWS

1. Open <https://aws.amazon.com/>, and then choose **Create an AWS Account**.

Note

This might be unavailable in your browser if you previously signed into the AWS Management Console. In that case, choose **Sign In to the Console**, and then choose **Create a new AWS account**.

2. Follow the online instructions.

Part of the sign-up procedure involves receiving a phone call and entering a PIN using the phone keypad.

Topics

- [Enable Amazon GuardDuty \(p. 7\)](#)
- [Amazon GuardDuty Free Trial \(p. 8\)](#)

Enable Amazon GuardDuty

To use GuardDuty, you must first enable it. Use the following procedure to enable GuardDuty.

1. The IAM identity (user, role, group) that you use to enable GuardDuty must have the required permissions. To grant the permissions required to enable GuardDuty, attach the following policy to an IAM user, group, or role:

Note

Replace the sample account ID in the example below with your actual AWS account ID.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:*"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "iam:CreateServiceLinkedRole"
      ],
      "Resource": "arn:aws:iam::123456789123:role/aws-service-role/guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty",
      "Condition": {
        "StringLike": {
          "iam:AWSServiceName": "guardduty.amazonaws.com"
        }
      }
    }
  ]
}
```

```
    }  
  },  
  {  
    "Effect": "Allow",  
    "Action": [  
      "iam:PutRolePolicy",  
      "iam>DeleteRolePolicy"  
    ],  
    "Resource": "arn:aws:iam::123456789123:role/aws-service-role/  
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty"  
  }  
]
```

2. Use the credentials of the IAM identity from step 1 to sign in to the GuardDuty console. When you open the GuardDuty console for the first time, choose **Get Started**, and then choose **Enable GuardDuty**.

Note the following about enabling GuardDuty:

- GuardDuty is assigned a service-linked role called `AWSServiceRoleForAmazonGuardDuty`. This service-linked role includes the permissions and trust policy that GuardDuty requires to consume and analyze events directly from AWS CloudTrail, VPC Flow Logs, and DNS logs and generate security findings. To view the details of `AWSServiceRoleForAmazonGuardDuty`, on the **Welcome to GuardDuty** page, choose **View service role permissions**. For more information, see [Using a Service-Linked Role to Delegate Permissions to GuardDuty \(p. 10\)](#). For more information about service-linked roles, see [Using Service-Linked Roles](#).
- After you enable GuardDuty, it immediately begins pulling and analyzing independent streams of data from AWS CloudTrail, VPC Flow Logs, and DNS logs to generate security findings. Because GuardDuty only consumes this data for purposes of determining if there are any findings, GuardDuty doesn't manage AWS CloudTrail, VPC Flow Logs, and DNS logs for you or make their events and logs available to you. If you have enabled these services independent of GuardDuty, you will continue to have the option to configure the settings of these data sources through their respective consoles or APIs. For more information about the data sources that GuardDuty integrates with, see [What is AWS CloudTrail?](#) and [Working With Flow Logs](#).
- You can disable GuardDuty at any time to stop it from processing and analyzing AWS CloudTrail events, VPC Flow Logs, and DNS logs. For more information, see [Suspending or Disabling Amazon GuardDuty \(p. 37\)](#).

Amazon GuardDuty Free Trial

When you enable GuardDuty for the first time, your AWS account is automatically enrolled in a 30-day GuardDuty free trial. You can view the details of your GuardDuty free trial in the **Free trial** page of the GuardDuty console (choose **Free trial / Details** in the navigation pane). The details include your current position on the free trial timeline and the estimated daily cost for using GuardDuty after your free trial ends. This estimate is based on the logs that GuardDuty processes and analyzes daily during the free trial. You will not be charged for using GuardDuty until your free trial ends. For more information about GuardDuty pricing, see [Amazon GuardDuty Pricing](#).

Managing Access to Amazon GuardDuty

Topics

- [Permissions Required to Enable GuardDuty \(p. 9\)](#)
- [Using a Service-Linked Role to Delegate Permissions to GuardDuty \(p. 10\)](#)
- [Using IAM Policies to Delegate Access to GuardDuty to IAM Identities \(p. 11\)](#)

Permissions Required to Enable GuardDuty

This section describes the permissions that various IAM identities (users, groups, and roles) must have in order to initially enable GuardDuty either through the console or programmatically (using the GuardDuty API or the GuardDuty commands in the AWS CLI).

To grant permissions required to enable GuardDuty, attach the following policy to an IAM user, group, or role:

Note

Replace the sample account ID in the example below with your actual AWS account ID.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:*"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "iam:CreateServiceLinkedRole"
      ],
      "Resource": "arn:aws:iam::123456789012:role/aws-service-role/guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty",
      "Condition": {
        "StringLike": {
          "iam:AWSServiceName": "guardduty.amazonaws.com"
        }
      }
    },
    {
      "Effect": "Allow",
      "Action": [
        "iam:PutRolePolicy",
        "iam>DeleteRolePolicy"
      ],
    }
  ]
}
```



```
        "Resource": "arn:aws:iam::1234567890123:role/aws-service-role/  
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty"  
    }  
  ]  
}
```

Using a Service-Linked Role to Delegate Permissions to GuardDuty

This section describes the permissions that the GuardDuty service itself requires to function and perform operations on your behalf, such as generating findings.

When you enable GuardDuty (using the GuardDuty console or programmatically through the API operations or AWS CLI commands), it is automatically assigned a service-linked role called `AWSServiceRoleForAmazonGuardDuty`. A service-linked role is a unique type of IAM role that is linked directly to an AWS service (in this case, GuardDuty). Service-linked roles are predefined by the service and include all the permissions that the service requires to call other AWS services on your behalf. The linked service (in this case, GuardDuty) also defines how you create, modify, and delete a service-linked role. For more information about service-linked roles, see [Using Service-Linked Roles](#).

The `AWSServiceRoleForAmazonGuardDuty` service-linked role is created automatically when GuardDuty is enabled. It includes the permissions and the trust policies that GuardDuty requires to consume and analyze events directly from AWS CloudTrail, VPC Flow Logs, and DNS logs and generate security findings.

You cannot edit the `AWSServiceRoleForAmazonGuardDuty` service-linked role. You can view its permissions or delete this service-linked role via the IAM console. To delete the `AWSServiceRoleForAmazonGuardDuty` service-linked role, you must first [disable GuardDuty \(p. 37\)](#) in all regions in that AWS account.

To view the permissions attached to `AWSServiceRoleForAmazonGuardDuty`, choose the **View service role permissions** button in the **Setting/General** tab of the GuardDuty console.

The following is the permissions policy document that is attached to the `AWSServiceRoleForAmazonGuardDuty` service-linked role:

```
{  
  "Version": "2012-10-17",  
  "Statement": [  
    {  
      "Effect": "Allow",  
      "Action": [  
        "ec2:DescribeInstances",  
        "ec2:DescribeImages"  
      ],  
      "Resource": "*"   
    }  
  ]  
}
```

The following is the trust policy that is attached to the `AWSServiceRoleForAmazonGuardDuty` service-linked role:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "Service": "guardduty.amazonaws.com"
      },
      "Action": "sts:AssumeRole"
    }
  ]
}
```

Using IAM Policies to Delegate Access to GuardDuty to IAM Identities

This section describes how to delegate access to GuardDuty to various IAM identities (users, groups, and roles).

By default, access to the GuardDuty resources (detector, trusted IP lists, threat lists, findings, members, master account, and invitations) is restricted to the owner of the AWS account that the resources were created in. If you are the owner, you can choose to grant full or limited access to GuardDuty to the various IAM identities in your account. For more information about creating IAM access policies, see [AWS Identity and Access Management \(IAM\)](#).

Topics

- [AWS Managed \(Predefined\) Policies for GuardDuty \(p. 11\)](#)
- [Using a Custom IAM Policy to Grant Full Access to GuardDuty \(p. 12\)](#)
- [Using a Custom IAM Policy to Grant Read-only Access to GuardDuty \(p. 13\)](#)
- [Using a Custom IAM Policy to Deny Access to GuardDuty Findings \(p. 13\)](#)
- [Using a Custom IAM Policy to Limit Access to GuardDuty Resources \(p. 14\)](#)

AWS Managed (Predefined) Policies for GuardDuty

AWS addresses many common use cases by providing standalone IAM policies that are created and administered by AWS. These *managed policies* grant necessary permissions for common use cases so that you can avoid having to investigate which permissions are needed. For more information, see [AWS Managed Policies](#) in the *IAM User Guide*.

The following AWS managed policies, which you can attach to users in your account, are specific to GuardDuty:

- **AmazonGuardDutyFullAccess** – provides access to all of GuardDuty functionality. However, when it comes to working with trusted IP lists and threat lists in GuardDuty, this managed policy provides identities with only limited access. More specifically, an identity with the **AmazonGuardDutyFullAccess** managed policy attached can only rename and deactivate uploaded trusted IP lists and threat lists.

To grant various identities full access to working with trusted IP lists and threat lists (in addition to renaming and deactivating, this includes uploading, activating, deleting, and updating the location

of the lists), make sure that the following actions are present in the permissions policy attached to an IAM user, group, or role:

```
{
  "Effect": "Allow",
  "Action": [
    "iam:PutRolePolicy",
    "iam>DeleteRolePolicy"
  ],
  "Resource": "arn:aws:iam::123456789123:role/aws-service-role/
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty"
}
```

- **AmazonGuardDutyReadOnlyAccess** – Provides read-only access to GuardDuty.

Using a Custom IAM Policy to Grant Full Access to GuardDuty

You can use the following custom policy to grant an IAM user, role, or group full access to the GuardDuty console and all GuardDuty operations.

Note

Replace the sample account ID in the example below with your actual AWS account ID.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:*"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "iam:CreateServiceLinkedRole"
      ],
      "Resource": "arn:aws:iam::123456789123:role/aws-service-role/
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty",
      "Condition": {
        "StringLike": {
          "iam:AWSServiceName": "guardduty.amazonaws.com"
        }
      }
    },
    {
      "Effect": "Allow",
      "Action": [
        "iam:PutRolePolicy",
        "iam>DeleteRolePolicy"
      ],
      "Resource": "arn:aws:iam::123456789123:role/aws-service-role/
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty"
    }
  ]
}
```

```
}
```

Using a Custom IAM Policy to Grant Read-only Access to GuardDuty

You can use the following policy to grant an IAM user, role, or group read-only access to GuardDuty:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:ListMembers",
        "guardduty:GetMembers",
        "guardduty:ListInvitations",
        "guardduty:ListDetectors",
        "guardduty:GetDetector",
        "guardduty:ListFindings",
        "guardduty:GetFindings",
        "guardduty:ListIPSets",
        "guardduty:GetIPSet",
        "guardduty:ListThreatIntelSets",
        "guardduty:GetThreatIntelSet",
        "guardduty:GetMaster",
        "guardduty:GetInvitationsCount",
        "guardduty:GetFindingsStatistics"
      ],
      "Resource": "*"
    }
  ]
}
```

Using a Custom IAM Policy to Deny Access to GuardDuty Findings

You can use the following policy to deny an IAM user, role, or group access to GuardDuty findings. Users can't view findings or the details about findings, but they can access all other GuardDuty operations:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:CreateDetector",
        "guardduty>DeleteDetector",
        "guardduty:UpdateDetector",
        "guardduty:GetDetector",
        "guardduty:ListDetectors",
        "guardduty:CreateIPSet",
        "guardduty>DeleteIPSet",
        "guardduty:UpdateIPSet",
        "guardduty:GetIPSet",

```

```
        "guardduty:ListIPSets",
        "guardduty:CreateThreatIntelSet",
        "guardduty>DeleteThreatIntelSet",
        "guardduty:UpdateThreatIntelSet",
        "guardduty:GetThreatIntelSet",
        "guardduty:ListThreatIntelSets",
        "guardduty:ArchiveFindings",
        "guardduty:UnarchiveFindings",
        "guardduty:CreateSampleFindings",
        "guardduty:CreateMembers",
        "guardduty:InviteMembers",
        "guardduty:GetMembers",
        "guardduty>DeleteMembers",
        "guardduty:DisassociateMembers",
        "guardduty:StartMonitoringMembers",
        "guardduty:StopMonitoringMembers",
        "guardduty:ListMembers",
        "guardduty:GetMasterAccount",
        "guardduty:DisassociateFromMasterAccount",
        "guardduty:AcceptInvitation",
        "guardduty:ListInvitations",
        "guardduty:GetInvitationsCount",
        "guardduty:DeclineInvitations",
        "guardduty>DeleteInvitations"
    ],
    "Resource": "*"
  },
  {
    "Effect": "Allow",
    "Action": [
      "iam:CreateServiceLinkedRole"
    ],
    "Resource": "arn:aws:iam::123456789123:role/aws-service-role/
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty",
    "Condition": {
      "StringLike": {
        "iam:AWSServiceName": "guardduty.amazonaws.com"
      }
    }
  },
  {
    "Effect": "Allow",
    "Action": [
      "iam:PutRolePolicy",
      "iam>DeleteRolePolicy"
    ],
    "Resource": "arn:aws:iam::123456789123:role/aws-service-role/
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty"
  }
]
}
```

Using a Custom IAM Policy to Limit Access to GuardDuty Resources

To define a user's access to GuardDuty based on the detector ID, you can use all [GuardDuty operations](#) (p. 40) in your custom IAM policies, **except** the following operations:

- `guardduty:CreateDetector`
- `guardduty:DeclineInvitations`
- `guardduty>DeleteInvitations`

- `guardduty:GetInvitationsCount`
- `guardduty:ListDetectors`
- `guardduty:ListInvitations`

Use the following operations in an IAM policy to define a user's access to GuardDuty based on the IPSet ID and ThreatIntelSet ID:

- `guardduty>DeleteIPSet`
- `guardduty>DeleteThreatIntelSet`
- `guardduty:GetIPSet`
- `guardduty:GetThreatIntelSet`
- `guardduty:UpdateIPSet`
- `guardduty:UpdateThreatIntelSet`

The following examples show how to create policies using some of the preceding operations:

- This policy allows a user to run the `guardduty:UpdateDetector` operation, using the detector ID of 1234567 in the us-east-1 region:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:UpdateDetector",
      ],
      "Resource": "arn:aws:guardduty:us-east-1:012345678910:detector/1234567"
    }
  ]
}
```

- This policy allows a user to run the `guardduty:UpdateIPSet` operation, using the detector ID of 1234567 and the IPSet ID of 000000 in the us-east-1 region:

Note

Make sure that the user has the permissions required to access trusted IP lists and threat lists in GuardDuty. For more information, see [Permissions Required to Upload Trusted IP Lists and Threat Lists \(p. 31\)](#).

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:UpdateIPSet",
      ],
      "Resource": "arn:aws:guardduty:us-east-1:012345678910:detector/1234567/
ipset/000000"
    }
  ]
}
```

- This policy allows a user to run the `guardduty:UpdateIPSet` operation, using any detector ID and the IPSet ID of 000000 in the us-east-1 region:

Note

Make sure that the user has the permissions required to access trusted IP lists and threat lists in GuardDuty. For more information, see [Permissions Required to Upload Trusted IP Lists and Threat Lists \(p. 31\)](#).

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:UpdateIPSet",
      ],
      "Resource": "arn:aws:guardduty:us-east-1:012345678910:detector/*/*
ipset/000000"
    }
  ]
}
```

- This policy allows a user to run the `guardduty:UpdateIPSet` operation, using the detector ID of 1234567 and any IPSet ID in the us-east-1 region:

Note

Make sure that the user has the permissions required to access trusted IP lists and threat lists in GuardDuty. For more information, see [Permissions Required to Upload Trusted IP Lists and Threat Lists \(p. 31\)](#).

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "guardduty:UpdateIPSet",
      ],
      "Resource": "arn:aws:guardduty:us-east-1:012345678910:detector/1234567/ipset/
*"
    }
  ]
}
```

Amazon GuardDuty Findings

Amazon GuardDuty generates findings when it detects unexpected and potentially malicious activity in your AWS environment. You can view and manage your GuardDuty findings on the **Findings** page in the GuardDuty console or by using the GuardDuty CLI or API operations. You can also view your GuardDuty findings through Amazon CloudWatch events. For more information, see [Monitoring Amazon GuardDuty Findings with Amazon CloudWatch Events \(p. 38\)](#).

This section describes the following information:

Topics

- [Working with GuardDuty Findings \(p. 17\)](#)
- [Severity Levels for GuardDuty Findings \(p. 19\)](#)
- [Generating GuardDuty Sample Findings \(p. 19\)](#)
- [Amazon GuardDuty Finding Types \(p. 20\)](#)
- [Remediating Security Issues Discovered by Amazon GuardDuty \(p. 29\)](#)

Working with GuardDuty Findings

Use the following procedure to view and manage your GuardDuty findings.

To locate, analyze, and manage GuardDuty findings (console)

1. Open the GuardDuty console at <https://console.aws.amazon.com/guardduty>, and then choose **Findings**.
2. Choose a specific finding to view its details.

A details pane appears where you can view the following information:

- A finding's summary section that includes the following information:
 - **Finding type** – a concise yet readable description of the potential security issue. For more information, see [Amazon GuardDuty Finding Types \(p. 20\)](#).
 - **Severity** – a finding's assigned severity level of either High, Medium, or Low. For more information, see [Severity Levels for GuardDuty Findings \(p. 19\)](#).
 - **Region** – the AWS region in which the finding was generated.

Note

For more information about supported regions, see [Amazon GuardDuty Supported Regions \(p. 6\)](#)

- **Count** – the number of times GuardDuty generated the finding after you enabled GuardDuty in your AWS account.
- **Account ID** – the ID of the AWS account in which the activity took place that prompted GuardDuty to generate this finding.
- **Resource ID** – the ID of the AWS resource against which the activity took place that prompted GuardDuty to generate this finding.
- **Threat list name** - the name of the threat list that includes the IP address or the domain name involved in the activity that prompted GuardDuty to generate the finding.
- **Last seen** – the time at which the activity took place that prompted GuardDuty to generate this finding.
- A finding's **Resource affected** section that includes the following information:

- **Resource role** – a value that usually is set to **Target** because the affected resource can be a potential target of an attack.
- **Resource type** – the type of the affected resource. This value is either **AccessKey** or **Instance**. Currently, supported finding types highlight potentially malicious activity against either EC2 instances or AWS credentials. For more information, see [Remediating Security Issues Discovered by Amazon GuardDuty \(p. 29\)](#).
- **Instance ID** – the ID of the EC2 instance involved in the activity that prompted GuardDuty to generate the finding.
- **Port** – the port number for the connection used during the activity that prompted GuardDuty to generate the finding.
- **Access key ID** – access key ID of the user engaged in the activity that prompted GuardDuty to generate the finding.
- **Principal ID** – the principal ID of the user engaged in the activity that prompted GuardDuty to generate the finding.
- **User type** – the type of user engaged in the activity that prompted GuardDuty to generate the finding. For more information, see [CloudTrail userIdentity element](#).
- **User name** – The name of the user engaged in the activity that prompted GuardDuty to generate the finding.
- A finding's **Action** section that can include the following information:
 - **Action type** – the finding activity type. This value can be one of the following: NETWORK_CONNECTION, AWS_API_CALL, PORT_PROBE, or DNS_REQUEST. NETWORK_CONNECTION indicates that network traffic was exchanged between the identified EC2 instance and the remote host. AWS_API_CALL indicates that an AWS API was invoked. DNS_REQUEST indicates that the identified EC2 instance queried a domain name. PORT_PROBE indicates that a remote host probed the identified EC2 instance on multiple open ports.
 - **API** – the name of the API operation that was invoked and thus prompted GuardDuty to generate this finding.
 - **Service name** – the name of the AWS service (GuardDuty) that generated the finding.
 - **Connection direction** – the network connection direction observed in the activity that prompted GuardDuty to generate the finding. The values can be INBOUND, OUTBOUND, and UNKNOWN. INBOUND indicates that a remote host initiated a connection to a local port on the identified EC2 instance in your account. OUTBOUND indicates that the identified EC2 instance initiated a connection to a remote host. UNKNOWN indicates that GuardDuty could not determine the direction of the connection.
 - **Protocol** – the network connection protocol observed in the activity that prompted GuardDuty to generate the finding.
- A finding's **Actor** section that can include the following information:
 - **Location** – location information of the IP address involved in the activity that prompted GuardDuty to generate the finding.
 - **Organization** – ISP organization information of the IP address involved in the activity that prompted GuardDuty to generate the finding.
 - **IP address** – the IP address involved in the activity that prompted GuardDuty to generate the finding.
 - **Port** – the port number involved in the activity that prompted GuardDuty to generate the finding.
 - **Domain** – the domain involved in the activity that prompted GuardDuty to generate the finding.
- A finding's **Additional information** section that can include the following information:
 - **Threat list name** – the name of the threat list that includes the IP address or the domain name involved in the activity that prompted GuardDuty to generate the finding.
 - **Sample** – indicates whether this is a sample finding.

- **Unusual** – activity details that were not observed historically. These can include an unusual (previously not observed) user, or location, or time.
 - **Unusual protocol** – the network connection protocol involved in the activity that prompted GuardDuty to generate the finding.
3. To archive or export the finding that you're analyzing, choose the **Actions** menu.
 4. To provide feedback by marking the finding useful or not useful, choose the thumbs up or thumbs down icons.

Severity Levels for GuardDuty Findings

Each GuardDuty finding has an assigned severity level and value that reduces the need to prioritize one finding over another and can help you determine your response to a potential security issue that is highlighted by a finding. The value of the severity can fall anywhere within the 0.0 to 10.0 range. The following are the currently defined severity levels and values for the GuardDuty findings:

- **High** (the value of the **severity** parameter in the [GetFindings \(p. 72\)](#) response falls within the 7.0 to 8.9 range) – indicates that the resource in question (an EC2 instance or a set of IAM user credentials) is compromised and is actively being used for unauthorized purposes. We recommend that you treat this security issue as a priority and take immediate remediation steps. For example, clean up your EC2 instance or terminate it, or rotate the IAM credentials.
- **Medium** (the value of the **severity** parameter in the [GetFindings \(p. 72\)](#) response falls within the 4.0 to 6.9 range) – indicates suspicious activity, for example, a large amount of traffic being returned to a remote host that is hiding behind the Tor network, or activity that deviates from normally observed behavior. We recommend that you investigate the implicated resource at your earliest convenience. Here are some of the possible remediation steps:
 - Check if an authorized user has installed new software that changed the behavior of a resource (for example, allowed higher than normal traffic, or enabled communication on a new port).
 - Check if an authorized user changed the control panel settings, for example, modified a security group setting
 - Run an anti-virus scan on the implicated resource to detect unauthorized software.
 - Verify the permissions that are attached to the implicated IAM role, user, group, or set of credentials. These might have to be changed or rotated.
- **Low** (the value of the **severity** parameter in the [GetFindings \(p. 72\)](#) response falls within the 0.1 to 3.9 range) - indicates suspicious or malicious activity that was blocked before it compromised your resource. There is no immediate recommended action, but it is worth making note of this information as something to address in the future.

Generating GuardDuty Sample Findings

Sample findings can help you visualize and analyze the various finding types that GuardDuty generates. When you generate sample findings, GuardDuty populates your current findings list with one sample finding for each supported finding type. For more information about GuardDuty finding types, see [Amazon GuardDuty Finding Types \(p. 20\)](#).

Use the following procedure to generate sample findings.

1. Open the GuardDuty console at <https://console.aws.amazon.com/guardduty>.
2. In the navigation pane, under **Settings**, choose **General**.
3. On the **Settings** page, under **Sample findings**, choose **Generate sample findings**.

4. In the navigation pane, under **Findings**, choose **Current**. The sample findings are displayed on the **Current findings** page. The title of sample findings always begins with [**SAMPLE**]. Choose a specific sample finding to view its details.

Amazon GuardDuty Finding Types

Topics

- [Finding Type Format \(p. 20\)](#)
- [Complete List of GuardDuty Finding Types \(p. 21\)](#)

Finding Type Format

When GuardDuty detects suspicious or unexpected behavior in your AWS environment, it generates a finding. A finding is a notification that contains the details about a potential security issue that GuardDuty discovers. The [finding details \(p. 17\)](#) include information about what happened, what AWS resources were involved in the suspicious activity, when this activity took place, and other information.

One of the most useful pieces of information in the finding details is a **finding type**. The purpose of the finding type is to provide a concise yet readable description of the potential security issue. For example, the GuardDuty *Recon:EC2/PortProbeUnprotectedPort* finding type quickly informs you that somewhere in your AWS environment, an EC2 instance has an unprotected port that a potential attacker is probing.

GuardDuty uses the following format for the various finding types that it generates:

ThreatPurpose:ResourceTypeAffected/ThreatFamilyName.ThreatFamilyVariant!Artifact

This is what each part of the format represents:

- **ThreatPurpose** - describes the primary purpose of a threat or a potential attack. In the current release of GuardDuty, ThreatPurpose can have the following values:
 - **Backdoor** - this value indicates that the attack has compromised an AWS resource and is capable of contacting its home command and control (C&C) server to receive further instructions for malicious activity.
 - **Behavior** - this value indicates that GuardDuty is detecting activity or activity patterns that are different from the established baseline for a particular AWS resource.
 - **Cryptocurrency** - this value indicates that GuardDuty is detecting software that is associated with cryptocurrencies like Bitcoin, Ethereum, and so on.
 - **Pentest** - Sometimes owners of AWS resources or their authorized representatives intentionally run tests against AWS applications to find vulnerabilities, like open security groups or access keys that are overly permissive. These pen tests are done in an attempt to identify and lock down vulnerable resources before they are discovered by attackers. However, some of the tools used by authorized pen testers are freely available, and therefore can be used by unauthorized users or attackers to run probing tests. Although GuardDuty can't identify the true purpose behind such activity, the **Pentest** value indicates that GuardDuty is detecting such activity and that it is similar to the activity generated by known pen testing tools. Therefore, it can be a potential attack.
 - **Recon** - this value indicates that a reconnaissance attack is underway, scoping out vulnerabilities in your AWS environment by probing ports, listing users, database tables, and so on.
 - **Stealth** - this value indicates that an attack is actively trying to hide its actions and its tracks. For example, an attack might use an anonymizing proxy server, making it virtually impossible to gauge the true nature of the activity.
 - **Trojan** - this value indicates that an attack is using Trojan programs that silently carry out malicious activity. Sometimes this software takes on an appearance of a legitimate program. Sometimes users

accidentally run this software. Other times this software might run automatically by exploiting a vulnerability.

- **UnauthorizedAccess** - this value indicates that GuardDuty is detecting suspicious activity or a suspicious activity pattern by an unauthorized individual.
- **ResourceTypeAffected** - describes which AWS resource is identified in this finding as the potential target of an attack. In this release of GuardDuty, only EC2 instances and IAM users (and their credentials) can be identified as affected resources in GuardDuty findings.
- **ThreatFamilyName** - describes the overall threat or potential malicious activity that GuardDuty is detecting. For example, a value of **NetworkPortUnusual** indicates that an EC2 instance identified in the GuardDuty finding has no prior history of communications on a particular remote port that also is identified in the finding.
- **ThreatFamilyVariant** - describes the specific variant of the **ThreatFamily** that GuardDuty is detecting. Attackers often slightly modify the functionality of the attack, thus creating new variants.
- **Artifact** - describes a specific resource that is owned by a tool that is used in the attack. For example, **DNS** in the finding type *CryptoCurrency:EC2/BitcoinTool.B!DNS* indicates that an EC2 instance is communicating with a known Bitcoin-related domain.

Complete List of GuardDuty Finding Types

The following are various finding types that GuardDuty generates:

Topics

- [Backdoor:EC2/XORDDOS \(p. 22\)](#)
- [Backdoor:EC2/Spambot \(p. 22\)](#)
- [Backdoor:EC2/C&CActivity.B!DNS \(p. 22\)](#)
- [Behavior:IAMUser/InstanceLaunchUnusual \(p. 23\)](#)
- [Behavior:EC2/NetworkPortUnusual \(p. 23\)](#)
- [Behavior:EC2/TrafficVolumeUnusual \(p. 23\)](#)
- [CryptoCurrency:EC2/BitcoinTool.A \(p. 23\)](#)
- [CryptoCurrency:EC2/BitcoinTool.B!DNS \(p. 23\)](#)
- [PenTest:IAMUser/KaliLinux \(p. 24\)](#)
- [Recon:EC2/PortProbeUnprotectedPort \(p. 24\)](#)
- [Recon:IAMUser/TorIPCaller \(p. 24\)](#)
- [Recon:IAMUser/MaliciousIPCaller.Custom \(p. 24\)](#)
- [Recon:IAMUser/MaliciousIPCaller \(p. 25\)](#)
- [Recon:EC2/Portscan \(p. 25\)](#)
- [Stealth:IAMUser/PasswordPolicyChange \(p. 25\)](#)
- [Stealth:IAMUser/CloudTrailLoggingDisabled \(p. 25\)](#)
- [Trojan:EC2/BlackholeTraffic \(p. 26\)](#)
- [Trojan:EC2/DropPoint \(p. 26\)](#)
- [Trojan:EC2/BlackholeTraffic!DNS \(p. 26\)](#)
- [Trojan:EC2/DriveBySourceTraffic!DNS \(p. 26\)](#)
- [Trojan:EC2/DropPoint!DNS \(p. 26\)](#)
- [Trojan:EC2/DGADomainRequest.B \(p. 27\)](#)
- [Trojan:EC2/DNSDataExfiltration \(p. 27\)](#)
- [UnauthorizedAccess:IAMUser/TorIPCaller \(p. 27\)](#)
- [UnauthorizedAccess:IAMUser/MaliciousIPCaller.Custom \(p. 27\)](#)

- [UnauthorizedAccess:IAMUser/ConsoleLoginSuccess.B](#) (p. 28)
- [UnauthorizedAccess:IAMUser/MaliciousIPCaller](#) (p. 28)
- [UnauthorizedAccess:IAMUser/UnusualASNCaller](#) (p. 28)
- [UnauthorizedAccess:EC2/TorIPCaller](#) (p. 28)
- [UnauthorizedAccess:EC2/MaliciousIPCaller.Custom](#) (p. 28)
- [UnauthorizedAccess:EC2/SSHBruteForce](#) (p. 29)
- [UnauthorizedAccess:EC2/RDPBruteForce](#) (p. 29)
- [UnauthorizedAccess:IAMUser/InstanceCredentialExfiltration](#) (p. 29)

Backdoor:EC2/XORDDOS

Finding description

An EC2 instance is attempting to communicate with an IP address that is associated with XorDDos malware.

This finding informs you that an EC2 instance in your AWS environment is attempting to communicate with an IP address that is associated with XorDDos malware. This EC2 instance might be compromised. XOR DDoS is Trojan malware that hijacks Linux systems. To gain access to the system, it launches a brute force attack in order to discover the password to Secure Shell (SSH) services on Linux. After SSH credentials are acquired and the login is successful, it uses root privileges to run a script that downloads and installs XOR DDoS. This malware is then used as part of a botnet to launch distributed denial of service (DDoS) attacks against other targets. For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

Backdoor:EC2/Spambot

Finding description

EC2 instance is exhibiting unusual behavior by communicating with a remote host on port 25.

This finding informs you that an EC2 instance in your AWS environment is communicating with a remote host on port 25. This behavior is unusual because this EC2 instance has no prior history of communications on port 25. Port 25 is traditionally used by mail servers for SMTP communications. Your EC2 instance might be compromised and sending out spam. For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

Backdoor:EC2/C&CActivity.B!DNS

Finding description

EC2 instance is communicating outbound with a domain that is hosted by a known command and control server.

This finding informs you that there is an EC2 instance in your AWS environment that is communicating outbound with a domain associated with a known command and control (C&C) server. Your EC2 instance might be compromised. C&C servers are computers that issue commands to members of a botnet. A botnet is a collection of internet-connected devices (which might include PCs, servers, mobile devices, and internet of things devices) that are infected and controlled by a common type of malware. Botnets are often used to distribute malware and gather misappropriated information, such as credit card numbers. Depending on the purpose and structure of the botnet, the C&C server might also issue commands to begin a distributed denial of service (DDoS) attack. For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

Behavior:IAMUser/InstanceLaunchUnusual

Finding description

An IAM user launched an EC2 instance of an unusual type.

This finding informs you that a specific IAM user in your AWS environment is exhibiting behavior that is different from the established baseline. This IAM user has no prior history of launching an EC2 instance of this type. Your IAM user credentials might be compromised. For more information, see [Remediating Compromised AWS Credentials \(p. 30\)](#)

Behavior:EC2/NetworkPortUnusual

Finding description

EC2 instance is communicating with a remote host on an unusual server port.

This finding informs you that an EC2 instance in your AWS environment is behaving in a way that deviates from the established baseline. This EC2 instance has no prior history of communications on this remote port. Your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Behavior:EC2/TrafficVolumeUnusual

Finding description

EC2 instance is generating unusually large amounts of network traffic to a remote host.

This finding informs you that an EC2 instance in your AWS environment is behaving in a way that deviates from the established baseline. This EC2 instance has no prior history of sending this much traffic to this remote host. Your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

CryptoCurrency:EC2/BitcoinTool.A

Finding description

EC2 instance is communicating with Bitcoin mining pools.

This finding informs you that an EC2 instance in your AWS environment is communicating with Bitcoin mining pools. In the field of cryptocurrency mining, a mining pool is the pooling of resources by miners who share their processing power over a network to split the reward according to the amount of work they contributed to solving a block. Unless you use this EC2 instance for Bitcoin mining, your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

CryptoCurrency:EC2/BitcoinTool.B!DNS

Finding description

EC2 instance is communicating with a known Bitcoin-related domain.

This finding informs you that an EC2 instance in your AWS environment is communicating with a known Bitcoin-related domain. Bitcoin is a worldwide cryptocurrency and digital payment system. Besides being created as a reward for Bitcoin mining, bitcoin can be exchanged for other currencies, products, and

services. Unless you use this EC2 instance to mine or manage cryptocurrency, your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

PenTest:IAMUser/KaliLinux

Finding description

An API was invoked from a Kali Linux EC2 instance.

This finding informs you that a machine running Kali Linux is making API calls using credentials that belong to your AWS account. Your credentials might be compromised. Kali Linux is a popular penetration testing tool used by security professionals to identify weaknesses in EC2 instances that require patching. This tool is also used by attackers to find EC2 configuration weaknesses and gain unauthorized access to your AWS environment. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

Recon:EC2/PortProbeUnprotectedPort

Finding description

EC2 instance has an unprotected port that is being probed by a known malicious host.

This finding informs you that a port on an EC2 instance in your AWS environment is not blocked by a security group, access control list (ACL), or an on-host firewall (for example, Linux IPChains), and known scanners on the internet are actively probing it. If the identified unprotected port is 22 or 3389 and you often use connect to this EC2 instance by using SSH/RDP and therefore can't block access to either of these ports, you can still limit exposure by allowing access to these ports only to the IP addresses from your corporate network IP address space. To restrict access to port 22 on Linux, see <http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/authorizing-access-to-an-instance.html>. To restrict access to port 3389 on Windows, see <http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/authorizing-access-to-an-instance.html>.

For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

Recon:IAMUser/TorIPCaller

Finding description

An API was invoked from a Tor exit node IP address.

This finding informs you that an API operation that can list or describe your AWS resources was invoked from a Tor exit node IP address. Tor is software for enabling anonymous communication. It encrypts and randomly bounces communications through relays between a series of network nodes. The last Tor node is called the exit node. This can be a reconnaissance attack: an anonymous user trying to gather information or gain access to your AWS resources for malicious purposes. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

Recon:IAMUser/MaliciousIPCaller.Custom

Finding description

An API was invoked from an IP address on a custom threat list.

This finding informs you that an API operation that can list or describe your AWS resources was invoked from an IP address that is included on a threat list that you uploaded. In GuardDuty, a threat list consists of known malicious IP addresses. GuardDuty generates findings based on uploaded threat lists. This can be a reconnaissance attack: an anonymous user trying to gather information or gain access to your

AWS resources for malicious purposes. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

Recon:IAMUser/MaliciousIPCaller

Finding description

An API was invoked from a known malicious IP address.

This finding informs you that an API operation that can list or describe your AWS resources was invoked from an IP address that is included on a threat list. In GuardDuty, a threat list consists of known malicious IP addresses. GuardDuty generates findings based on the custom or internal threat lists. This can be a reconnaissance attack: an anonymous user trying to gather information or gain access to your AWS resources for malicious purposes. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

Recon:EC2/Portscan

Finding description

EC2 instance is performing outbound port scans to a remote host.

This finding informs you that there is an EC2 instance in your AWS environment that is engaged in a possible port scan attack because it is trying to connect to multiple ports over a short period of time. The purpose of a port scan attack is to locate open ports to discover what services the machine is running and to identify its operating system. Your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

Stealth:IAMUser/PasswordPolicyChange

Finding description

Account password policy was weakened.

Your AWS account password policy was weakened. For example, it was deleted or updated to require fewer characters, not require symbols and numbers, or required to extend the password expiration period. This finding can also be triggered by an attempt to update or delete your AWS account password policy from an unusual location, time of day, or by an unusual user. The AWS account password policy defines the rules that govern what kinds of passwords can be set for your IAM users. A weaker password policy permits the creation of passwords that are easy to remember and potentially easier to guess, thereby creating a security risk. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

Stealth:IAMUser/CloudTrailLoggingDisabled

Finding description

AWS CloudTrail trail was disabled.

This finding informs you that a CloudTrail trail within your AWS environment was disabled. This can be an attacker's attempt to disable logging to cover their tracks by eliminating any trace of their activity while gaining access to your AWS resources for malicious purposes. This finding can be triggered by an attempt to delete or update a trail from an unusual location, time of day, or by an unusual user. This finding can also be triggered by an attempt to delete an S3 bucket that stores the logs from a trail that is associated with GuardDuty. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

Trojan:EC2/BlackholeTraffic

Finding description

EC2 instance is connecting to a black hole IP address.

This finding informs you that an EC2 instance in your AWS environment might be compromised because it is communicating with a black hole IP address. Black holes refer to places in the network where incoming or outgoing traffic is silently discarded without informing the source that the data didn't reach its intended recipient. A black hole IP address specifies a host machine that is not running or an address to which no host has been assigned. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Trojan:EC2/DropPoint

Finding description

An EC2 instance is communicating with a remote IP address that is known to retain credentials and other data stolen by malware.

This finding informs you that an EC2 instance in your AWS environment is communicating with an IP address that is associated with a storage location for credentials and other data that could have been stolen by malware. Your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Trojan:EC2/BlackholeTraffic!DNS

Finding description

EC2 instance is connecting to a black hole DNS.

This finding informs you that an EC2 instance in your AWS environment might be compromised because it is communicating with a black hole DNS. Black holes refer to places in the network where incoming or outgoing traffic is silently discarded without informing the source that the data didn't reach its intended recipient. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Trojan:EC2/DriveBySourceTraffic!DNS

Finding description

EC2 instance is communicating with a domain that is known to host drive-by malware-distributing downloads or potentially unwanted downloads.

This finding informs you that an EC2 instance in your AWS environment might be compromised because it is communicating with a domain that hosts drive-by malware-distributing downloads. These are unintended downloads of computer software from the internet that can trigger an automatic install of a virus, spyware, or malware. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Trojan:EC2/DropPoint!DNS

Finding description

EC2 instance is communicating with a domain that is known to retain credentials and other data stolen by malware.

This finding informs you that there is an EC2 instance in your AWS environment that is communicating with a domain that is associated with a storage location for credentials and other data that could have been stolen by malware. Your EC2 instance might be compromised. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Trojan:EC2/DGADomainRequest.B

Finding description

EC2 instance has attempted to query DGA domains.

This finding informs you that there is an EC2 instance in your AWS environment that is trying to query domain generation algorithms (DGA) domains. Your EC2 instance might be compromised. DGAs are used to periodically generate a large number of domain names that can be used as rendezvous points with their command and control (C&C) servers. C&C servers are computers that issue commands to members of a botnet, which is a collection of internet-connected devices that are infected and controlled by a common type of malware. The large number of potential rendezvous points makes it difficult to effectively shut down botnets because infected computers attempt to contact some of these domain names every day to receive updates or commands. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

Trojan:EC2/DNSDataExfiltration

Finding description

EC2 instance is exfiltrating data through DNS queries.

This finding informs you that there is an EC2 instance in your AWS environment with malware that uses DNS queries for outbound data transfers. The result is the exfiltration of data. Your EC2 instance might be compromised. DNS traffic is not typically blocked by firewalls. For example, malware in a compromised EC2 instance can encode data, (such as your credit card number), into a DSN query and send it to a remote DNS server that is controlled by an attacker. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

UnauthorizedAccess:IAMUser/TorIPCaller

Finding description

An API was invoked from a Tor exit node IP address.

This finding informs you that an API operation (for example, an attempt to launch an EC2 instance, create a new IAM user, or modify your AWS privileges) was invoked from a Tor exit node IP address. Tor is software for enabling anonymous communication. It encrypts and randomly bounces communications through relays between a series of network nodes. The last Tor node is called the exit node. This can indicate unauthorized access to your AWS resources with the intent of hiding the attacker's true identity. For more information, see [Remediating Compromised AWS Credentials \(p. 30\)](#).

UnauthorizedAccess:IAMUser/MaliciousIPCaller.Custom

Finding description

An API was invoked from an IP address on a custom threat list.

This finding informs you that an API operation (for example, an attempt to launch an EC2 instance, create a new IAM user, modify your AWS privileges, and so on) was invoked from an IP address that is included on a threat list that you uploaded. In GuardDuty, a threat list consists of known malicious IP addresses. GuardDuty generates findings based on uploaded threat lists. This can indicate unauthorized

access to your AWS resources with the intent of hiding the attacker's true identity. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

UnauthorizedAccess:IAMUser/ConsoleLoginSuccess.B

Finding description

Multiple worldwide successful console logins were observed.

This finding informs you that multiple successful console logins for the same IAM user were observed around the same time in various geographical locations. Such anomalous and risky access location pattern indicates potential unauthorized access to your AWS resources. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

UnauthorizedAccess:IAMUser/MaliciousIPCaller

Finding description

An API was invoked from a known malicious IP address.

This finding informs you that an API operation (for example, an attempt to launch an EC2 instance, create a new IAM user, modify your AWS privileges, and so on) was invoked from a known malicious IP address. This can indicate unauthorized access to your AWS resources. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

UnauthorizedAccess:IAMUser/UnusualASNCaller

Finding description

An API was invoked from an IP address of an unusual ISP.

This finding informs you that an API operation (for example, an attempt to launch an EC2 instance, create a new IAM user, modify your AWS privileges, and so on) was invoked from an IP address of an unusual ISP. This ISP was never observed throughout your AWS usage history. This can indicate unauthorized access to your AWS resources. For more information, see [Remediating Compromised AWS Credentials](#) (p. 30).

UnauthorizedAccess:EC2/TorIPCaller

Finding description

EC2 instance is receiving inbound connections from a Tor exit node.

This finding informs you that an EC2 instance in your AWS environment is receiving inbound connections from a Tor exit node. Tor is software for enabling anonymous communication. It encrypts and randomly bounces communications through relays between a series of network nodes. This can indicate unauthorized access to your AWS resources with the intent of hiding the attacker's true identity. For more information, see [Remediating a Compromised EC2 Instance](#) (p. 30).

UnauthorizedAccess:EC2/MaliciousIPCaller.Custom

Finding description

EC2 instance is communicating outbound with a IP address on a custom threat list.

This finding informs you that an EC2 instance in your AWS environment is communicating outbound using the TCP protocol with an IP address included on a threat list that you uploaded. In GuardDuty, a

threat list consists of known malicious IP addresses. GuardDuty generates findings based on uploaded threat lists. This can indicate unauthorized access to your AWS resources. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

UnauthorizedAccess:EC2/SSHBruteForce

Finding description

EC2 instance has been involved in SSH brute force attacks.

This finding informs you that an EC2 instance in your AWS environment was involved in a brute force attack aimed at obtaining passwords to SSH services on Linux-based systems. This can indicate unauthorized access to your AWS resources. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

UnauthorizedAccess:EC2/RDPBruteForce

Finding description

EC2 instance has been involved in RDP brute force attacks.

This finding informs you that an EC2 instance in your AWS environment was involved in a brute force attack aimed at obtaining passwords to RDP services on Windows-based systems. This can indicate unauthorized access to your AWS resources. For more information, see [Remediating a Compromised EC2 Instance \(p. 30\)](#).

UnauthorizedAccess:IAMUser/InstanceCredentialExfiltration

Finding description

Credentials that were created exclusively for an EC2 instance through an instance launch role are being used from an external IP address.

This finding informs you of attempts to run AWS API operations from a host outside of EC2, using temporary AWS credentials that were created on an EC2 instance in your AWS account. Your EC2 instance might be compromised, and the temporary credentials from this instance might have been exfiltrated to a remote host outside of AWS. AWS does not recommend redistributing temporary credentials outside of the entity that created them (for example, AWS applications, EC2, or Lambda). However, authorized users can export credentials from their EC2 instances to make legitimate API calls. To rule out a potential attack and verify the legitimacy of the activity, contact the IAM user to whom these credentials are assigned. For more information, see [Remediating Compromised AWS Credentials \(p. 30\)](#).

Remediating Security Issues Discovered by Amazon GuardDuty

Amazon GuardDuty generates [findings \(p. 17\)](#) that indicate potential security issues. In this release of GuardDuty, the potential security issues indicate either a compromised EC2 instance or a set of compromised credentials in your AWS environment. The following sections describe the recommended remediation steps for either scenario.

Topics

- [Remediating a Compromised EC2 Instance \(p. 30\)](#)
- [Remediating Compromised AWS Credentials \(p. 30\)](#)

Remediating a Compromised EC2 Instance

Follow these recommended steps to remediate a compromised EC2 instance in your AWS environment:

- Investigate the potentially compromised instance for malware and remove any discovered malware. You can also refer to the [AWS Marketplace](#) for partner products that might help to identify and remove malware.
- If you are unable to identify and stop unauthorized activity on your EC2 instance, we recommend that you terminate the compromised EC2 instance and replace it with a new instance as needed. The following are additional resources for securing your EC2 instances:
 - "Security and Network" section in [Best Practices for Amazon EC2](#).
 - [Amazon EC2 Security Groups for Linux Instances](#) and [Amazon EC2 Security Groups for Windows Instances](#).
 - [Tips for securing your EC2 instances \(Linux\)](#) and [Securing Windows EC2 Instances](#).
 - [AWS Security Best Practices](#)
- Browse for further assistance on the AWS developer forums: <https://forums.aws.amazon.com/index.jspa>
- If you are a Premium Support package subscriber, you can request [one-one-one assistance](#).

Remediating Compromised AWS Credentials

Follow these recommended steps to remediate compromised credentials in your AWS environment:

- **Identify the owner of the credentials.**

If a GuardDuty finding informs you of a potential compromise to AWS credentials, you can locate the affected IAM user by their access keys or user name.

Note

Users need their own access keys to make programmatic calls to AWS from the AWS Command Line Interface (AWS CLI), Tools for Windows PowerShell, the AWS SDKs, or direct HTTP calls using the APIs for individual AWS services. To fill this need, you can create, modify, view, or rotate access keys (access key IDs and secret access keys) for IAM users. For more information, see [Managing Access Keys for IAM Users](#).

To find the access key ID or user name that belongs to a potentially compromised IAM user, open the console and view the details pane of the finding that you're analyzing. For more information, see [Working with GuardDuty Findings \(p. 17\)](#). After you have the access key ID or user name, open the IAM console, choose the **Users** tab, and locate the affected user by typing the access key ID or user name in the **Find users by username or access key** search field.

- **Determine whether the credentials were used by the IAM user legitimately.**

Contact the IAM user that you've located, and verify whether the user legitimately used the access key and user name that is identified in the GuardDuty finding. For example, find out if the user did the following:

- Invoked the API operation that was listed in the GuardDuty finding
- Invoked the API operation at the time that is listed in the GuardDuty finding
- Invoked the API operation from the IP address that is listed in the GuardDuty finding

If you confirm that the activity is a legitimate use of the AWS credentials, you can ignore the GuardDuty finding. If not, this activity is likely the result of a compromise to that particular access key, the IAM user's user ID and password, or possibly the entire AWS account. You can then use the information in the [My AWS account may be compromised](#) article to remediate the issue.

Uploading Trusted IP Lists and Threat Lists

Amazon GuardDuty monitors the security of your AWS environment by analyzing and processing VPC Flow Logs, AWS CloudTrail event logs, and DNS logs. You can expand this monitoring scope by configuring GuardDuty to also use your own custom *trusted IP lists* and *threat lists*.

Trusted IP lists consist of IP addresses that you have whitelisted for secure communication with your AWS infrastructure and applications. GuardDuty does not generate findings for IP addresses on trusted IP lists. At any given time, you can have only one uploaded trusted IP list.

Threat lists consist of known malicious IP addresses. GuardDuty generates findings based on threat lists. At any given time, you can have up to six uploaded threat lists.

Users from both, master and member GuardDuty accounts can upload and manage trusted IP lists and threat lists. For more information, see [Managing AWS Accounts in Amazon GuardDuty \(p. 33\)](#).

Important

GuardDuty uses the same [AWSServiceRoleForAmazonGuardDuty service-linked role \(p. 10\)](#) that is automatically assigned to it when you enable GuardDuty for the permissions required to evaluate your trusted IP lists and threat lists.

Note the following when creating trusted IP lists and threat lists that you plan to upload with GuardDuty:

- In your trusted IP lists and threat lists, IP addresses and CIDR ranges must appear one per line.

The following is a sample list in Plaintext format:

```
54.20.175.217
205.0.0.0/8
```

- GuardDuty doesn't generate findings for any non-routable or internal IP addresses in your threat lists.
- GuardDuty doesn't generate findings based on activity that involves domain names that are included in your threat lists. GuardDuty only generates findings based on activity that involves IP addresses and CIDR ranges in your threat lists.

Permissions Required to Upload Trusted IP Lists and Threat Lists

Various IAM identity require proper permissions to work with trusted IP lists and threat lists in GuardDuty. An identity with the **AmazonGuardDutyFullAccess** managed policy attached can only rename and deactivate uploaded trusted IP lists and threat lists.

To grant various identities full access to working with trusted IP lists and threat lists (in addition to renaming and deactivating, this includes uploading, activating, deleting, and updating the location of the lists), make sure that the following actions are present in the permissions policy attached to an IAM user, group, or role:

```
{
  "Effect": "Allow",
  "Action": [
    "iam:PutRolePolicy",
    "iam>DeleteRolePolicy"
  ],
  "Resource": "arn:aws:iam::123456789123:role/aws-service-role/
guardduty.amazonaws.com/AWSServiceRoleForAmazonGuardDuty"
}
```

Important

These actions are not included in the **AmazonGuardDutyFullAccess** managed policy.

To Upload Trusted IP Lists and Threat Lists

The following procedure describes how you can upload trusted IP lists and threat lists using the GuardDuty console.

To upload trusted IP lists and threat lists (console)

1. Open the GuardDuty console at <https://console.aws.amazon.com/guardduty>.
2. In the navigation pane, under **Settings**, choose **Lists**.
3. On the **List management** page, choose **Add a trusted IP list** or **Add a threat list**.
4. In the dialog box, do the following:
 - For **List name**, type a name for the list.
 - For **Location**, specify the location of the list - this is the S3 bucket where you store your trusted IP list or threat list and the file that contains your list.

Note

You can specify the location URL in the following formats:

- <https://s3.amazonaws.com/bucket.name/file.txt>
 - <https://s3-aws-region.amazonaws.com/bucket.name/file.txt>
 - <http://bucket.s3.amazonaws.com/file.txt>
 - <http://bucket.s3-aws-region.amazonaws.com/file.txt>
 - <s3://mybucket/file.txt>
- For **Format**, choose your list's file type.
 - Select the **I agree** check box.
 - Choose **Add list**.

Managing AWS Accounts in Amazon GuardDuty

You can invite other accounts to enable GuardDuty and become associated with your AWS account. If your invitations are accepted, your account is designated as the **master** GuardDuty account, and the associated accounts become your **member** accounts. You can then view and manage their GuardDuty findings on their behalf. In GuardDuty, a master account can have up to 100 member accounts.

Important

An AWS account cannot be a GuardDuty master and member account at the same time. An AWS account can accept only one membership invitation. Accepting a membership invitation is optional.

Topics

- [GuardDuty Master Accounts \(p. 33\)](#)
- [GuardDuty Member Accounts \(p. 33\)](#)
- [Designating Master and Member Accounts Through GuardDuty Console \(p. 34\)](#)
- [Designating Master and Member Accounts Through the GuardDuty API Operations \(p. 35\)](#)

GuardDuty Master Accounts

Users from the master account can configure GuardDuty as well as view and manage GuardDuty findings for their own account and all of their member accounts.

The following is how a master account can configure GuardDuty:

- Users from master accounts can generate sample findings.
- Users from master accounts can upload and further manage trusted IP lists and threat lists in their own account.

Note

Trusted IP lists and threat lists that are uploaded by the master account are NOT imposed on GuardDuty functionality in its member accounts. In other words, in member accounts GuardDuty still generates findings based on activity that involves IP addresses from the master's trusted IP lists and does not generate findings based on activity that involves known malicious IP addresses from the master's threat lists.

- Users from master accounts can suspend GuardDuty for its own (master) account and all member accounts.
- Users from master accounts can disable GuardDuty in its own (master) account. However, all member accounts must first be removed to disable GuardDuty in the master account. A master account CANNOT disable GuardDuty for member accounts.

GuardDuty Member Accounts

Users from member accounts can configure GuardDuty as well as view and manage GuardDuty findings in their account. Member account users can't configure GuardDuty or view or manage findings in the master or other member accounts.

The following is how a member account can configure GuardDuty:

- Users from member accounts can generate sample findings.
- Users from member accounts can upload and further manage trusted IP lists and threat lists in their own account.

Note

Trusted IP lists and threat lists that are uploaded by the master account are NOT imposed on GuardDuty functionality in its member accounts. In other words, in member accounts GuardDuty still generates findings based on activity that involves IP addresses from the master's trusted IP lists and does not generate findings based on activity that involves known malicious IP addresses from the master's threat lists.

- Users from member accounts can suspend GuardDuty for their own account, but not for the master account or other member accounts.
- Users from member accounts can disable GuardDuty for their own account, but not for the master account or other member accounts.

Designating Master and Member Accounts Through GuardDuty Console

In GuardDuty, your account is designated a master account when you add another AWS account to be associated with your account or when another account accepts your invitation to become a member account.

If your account is a non-master account, you can accept an invitation from another account. When you accept, your account becomes a member account.

Use the following procedures to add an account, invite an account, or accept an invitation from another account.

- Step 1 - Add an account
- Step 2 - Invite an account
- Step 3 - Accept an invitation

Step 1 - Add an account

1. Open the GuardDuty console at <https://console.aws.amazon.com/guardduty>.
2. In the navigation pane, under **Settings**, choose **Accounts**.
3. Choose **Add accounts**.
4. On the **Add member** accounts page, under **Enter accounts**, type the AWS account ID and email address of the account that you want to add. Then choose **Add account**.

You can add more accounts, one at a time, by specifying their IDs and email addresses. You can also choose **Upload list (.csv)** to bulk add accounts. This can be useful if you want to invite some of these accounts to enable GuardDuty right away but want to delay for others.

Important

In your .csv list, accounts must appear one per line. For each account in your .csv list, you must specify the account ID and the email address separated by a comma. The first line of your .csv file must contain the following header, as shown in the example below: **Account ID, Email**. Each subsequent line must contain a valid account ID and a valid email address for the account that you want to add. The account ID and email address must be separated by a comma.



```
Account ID,Email  
111111111111,user@example.com
```

5. When you are finished adding accounts, choose **Done**.

The added accounts appear in a list on the **Accounts** page. Each added account in this list has an **Invite** link in the **Status** column.

Step 2 - Invite an account

1. Open the GuardDuty console at <https://console.aws.amazon.com/guardduty>.
2. In the navigation pane, under **Settings**, choose **Accounts**.
3. For the account that you want to invite to enable GuardDuty, choose the **Invite** link that appears in the **Status** column of the added accounts list.
4. In the **Invitation to GuardDuty** dialog box, type an invitation message (optional), and then choose **Send notification**.

The value in the **Status** column for the invited account changes to **Pending**.

Step 3 - Accept an invitation

1. Open the GuardDuty console at <https://console.aws.amazon.com/guardduty>.
2. Do one of the following:
 - If you don't have GuardDuty enabled, on the **Enable GuardDuty** page, choose **Enable GuardDuty**. Then use the **Accept** widget and the **Accept invitation** button to accept the membership invitation.

Important

You must enable GuardDuty before you can accept a membership invitation.

- If you already have GuardDuty enabled, use the **Accept** widget and the **Accept invitation** button to accept the membership invitation.

After you accept the invitation, your account becomes a GuardDuty member account. The account whose user sent the invitation becomes the GuardDuty master account. The master account user can see that the value in the **Status** column for your member account changes to **Monitored**. The master account user can now view and manage GuardDuty findings for your member account.

Designating Master and Member Accounts Through the GuardDuty API Operations

You can also designate master and member GuardDuty accounts through the API operations. The following is the order in which these particular GuardDuty API operations must be run in order to designate master and member accounts in GuardDuty.

Complete the following procedure using the credentials of the AWS account that you want to designate as the GuardDuty master account.

1. Run the [CreateMembers \(p. 49\)](#) API operation using the credentials of the AWS account that has GuardDuty enabled (this is the account that you want to be the master GuardDuty account).

You must specify the detector ID of the current AWS account and the account details (account ID and email address) of the account(s) of the accounts that you want to become GuardDuty members (you can create one or more members with this API operation).

2. Run the [InviteMembers \(p. 100\)](#) API operation using the credentials of the AWS account that has GuardDuty enabled (this is the account that you want to be the master GuardDuty account).

You must specify the detector ID of the current AWS account and the account IDs (you can invite one or more members with this API operation) of the accounts that you want to become GuardDuty members.

Note

You can also specify an optional invitation message using the `message` request parameter.

Complete the following procedure using the credentials of each AWS account that you want to designate as the GuardDuty member account.

1. Run the [CreateDetector \(p. 44\)](#) API operation for each AWS account that was invited to become a GuardDuty member account and where you want to accept an invitation.

You must specify if the detector resource is to be enabled using the GuardDuty service. A detector must be created and enabled in order for GuardDuty to become operational. You must first enable GuardDuty before accepting an invitation.

2. Run the [AcceptInvitation \(p. 41\)](#) API operation for each AWS account where you want to accept the membership invitation using that account's credentials.

You must specify the detector ID of this AWS account (member account), the master ID of the AWS account that sent the invitation that you are accepting (you can get this value either from the invitation email or by running the [ListInvitations \(p. 108\)](#) API operation. It is the value of the `accountID` response parameter), and the invitation ID of the invitation that you are accepting.

Suspending or Disabling Amazon GuardDuty

You can use the GuardDuty console to suspend or disable GuardDuty.

- If you suspend GuardDuty, it no longer monitors the security of your AWS environment or generates new findings. Your existing findings remain intact and are not affected by the GuardDuty suspension. You can choose to re-enable GuardDuty later.
- If you disable GuardDuty, your existing findings and the GuardDuty configuration are lost and can't be recovered. If you want to save your existing findings, you must export them before you disable GuardDuty.

To suspend or disable GuardDuty (console)

1. Open the GuardDuty console at [<link>](#).
2. In the navigation pane, under **Settings**, choose **General**.
3. Choose either **Suspend GuardDuty** or **Disable GuardDuty**. Then choose **Save settings**.

Monitoring Amazon GuardDuty Findings with Amazon CloudWatch Events

Amazon GuardDuty sends notifications based on [Amazon CloudWatch Events](#) when any change in the findings takes place. This includes newly generated findings and updates to existing findings. GuardDuty aggregates all changes to findings that take place in five-minute intervals into a single event.

The CloudWatch [event](#) for GuardDuty has the following format:

```
{
  "version": "0",
  "id": "cd2d702e-ab31-411b-9344-793ce56b1bc7",
  "detail-type": "GuardDuty Finding",
  "source": "aws.guardduty",
  "account": "111122223333",
  "time": "1970-01-01T00:00:00Z",
  "region": "us-east-1",
  "resources": [],
  "detail": {COMPLETE_GUARDDUTY_FINDING_JSON}
}
```

Creating a CloudWatch Events Rule and Target for GuardDuty

Currently in GuardDuty, there's no user interface support for CloudWatch. The following procedure shows how to use AWS CLI commands to create a CloudWatch Events rule and target for GuardDuty. Specifically, the procedure shows you how to create a rule that enables CloudWatch to send events for all findings that GuardDuty generates, and add an AWS Lambda function as a target for the rule.

Note

In addition to Lambda functions, GuardDuty and CloudWatch support the following target types: Amazon EC2 instances, Amazon Kinesis streams, Amazon ECS tasks, AWS Step Functions state machines, the `run` command, and built-in targets.

To create a rule and target

1. To create a rule that enables CloudWatch to send events for all findings that GuardDuty generates, run the following CloudWatch CLI command:

```
aws events put-rule --name Test --event-pattern '{"source": ["aws.guardduty"]}'
```

2. To attach a Lambda function as a target for the rule that you created in step 1, run the following CloudWatch CLI command:

```
aws events put-targets --rule Test --targets Id=1,Arn=arn:aws:lambda:us-east-1:111122223333:function:<your_function>
```

Note

Make sure to replace <your_function> in the command above with your actual Lambda function for the GuardDuty events.

3. To add the permissions required to invoke the target, run the following Lambda CLI command:

```
aws lambda add-permission --function-name <your_function> --statement-id 1 --action 'lambda:InvokeFunction' --principal events.amazonaws.com
```

Note

Make sure to replace <your_function> in the command above with your actual Lambda function for the GuardDuty events.

Amazon GuardDuty API Reference

GuardDuty monitors the security of your AWS environment by analyzing and processing VPC Flow Logs and AWS CloudTrail event logs. This guide describes Amazon GuardDuty API operations.

Topics

- [AcceptInvitation](#) (p. 41)
- [ArchiveFindings](#) (p. 43)
- [CreateDetector](#) (p. 44)
- [CreateIPSet](#) (p. 46)
- [CreateMembers](#) (p. 49)
- [CreateSampleFindings](#) (p. 51)
- [CreateThreatIntelSet](#) (p. 53)
- [DeclineInvitations](#) (p. 56)
- [DeleteDetector](#) (p. 58)
- [DeleteInvitations](#) (p. 59)
- [DeleteIPSet](#) (p. 61)
- [DeleteMembers](#) (p. 63)
- [DeleteThreatIntelSet](#) (p. 65)
- [DisassociateFromMasterAccount](#) (p. 67)
- [DisassociateMembers](#) (p. 68)
- [GetDetector](#) (p. 70)
- [GetFindings](#) (p. 72)
- [GetFindingsStatistics](#) (p. 86)
- [GetInvitationsCount](#) (p. 89)
- [GetIPSet](#) (p. 90)
- [GetMasterAccount](#) (p. 92)
- [GetMembers](#) (p. 94)
- [GetThreatIntelSet](#) (p. 97)
- [InviteMembers](#) (p. 100)
- [ListDetectors](#) (p. 102)
- [ListFindings](#) (p. 104)
- [ListInvitations](#) (p. 108)
- [ListIPSets](#) (p. 110)
- [ListMembers](#) (p. 113)
- [ListThreatIntelSets](#) (p. 116)
- [StartMonitoringMembers](#) (p. 118)
- [StopMonitoringMembers](#) (p. 121)
- [UnarchiveFindings](#) (p. 123)
- [UpdateDetector](#) (p. 125)
- [UpdateFindingsFeedback](#) (p. 126)
- [UpdateIPSet](#) (p. 128)
- [UpdateThreatIntelSet](#) (p. 131)

AcceptInvitation

Accepts the invitation to be monitored by a master GuardDuty account.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/master
```

Body:

```
{  
  "detectorId": string,  
  "masterId": "string",  
  "invitationId": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the AWS account that is accepting an invitation to become a GuardDuty member account.

Type: String

Required: Yes

masterId

The account ID of the master GuardDuty account whose invitation you're accepting.

Type: String

Required: Yes

invitationId

The ID of the invitation sent to the AWS account by the GuardDuty master account.

Type: String

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the current account cannot accept invitation from the given account ID since the latter is an associated member of another master account.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the current account cannot accept invitations since it still has created, invited or associated members.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the current account cannot accept invitations since it is already an associated member of some master account.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the current account has no pending invitation from the given master account ID or is already an associated member of another master account.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the given handshake role of the given member account ID cannot be assumed by GuardDuty on behalf of the given master account ID.

HTTP Status Code: 400

LimitExceededException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ArchiveFindings

Archives Amazon GuardDuty findings specified by the list of finding IDs.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/findings/archive
```

Body:

```
{
  "findingIds": [
    "string"
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The ID of the detector that specifies the GuardDuty service whose findings you want to archive.

Required: Yes

Type: String

findingIds

IDs of the findings that you want to archive.

Type: Array of strings. Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the number of requested finding Ids is out of bounds.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

CreateDetector

Creates a single Amazon GuardDuty detector. A detector is an object that represents the GuardDuty service. A detector must be created in order for GuardDuty to become operational.

Important

Currently, GuardDuty only supports one detector resource per AWS account.

Request Syntax

```
POST https://<endpoint>/detector
```

Body:

```
{  
  "enable" : "boolean"  
}
```

Request Parameters

The request accepts the following data in JSON format.

enable

A boolean value that specifies whether the detector is to be enabled.

Type: Boolean

Required: Yes

Response Syntax

Body:

```
{  
  "detectorId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

detectorId

The unique ID of the created detector.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

AccessDeniedException

The request was rejected because you do not have the required iam:CreateServiceLinkedRole permission.

HTTP Status Code: 400

LimitExceededException

The request is rejected because a detector already exists for the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

CreateIPSet

Creates a new IPSet - a list of trusted IP addresses that have been whitelisted for secure communication with your AWS environment.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/ipset
```

Body:

```
{
  "name": "string",
  "location": "string",
  "format": "[TXT|STIX|OTX_CSV|ALIEN_VAULT|PROOF_POINT|FIRE_EYE]",
  "activate": "boolean"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service for which an IPSet is to be created.

Type: String

Required: Yes

name

The user friendly name to identify the IPSet. This name is displayed in all findings that are triggered by activity that involves IP addresses included in this IPSet.

Type: String

Required: Yes

format

The format of the file that contains the IPSet.

Type: String, valid values are: TXT|STIX|OTX_CSV|ALIEN_VAULT|PROOF_POINT|FIRE_EYE

Required: Yes

location

The URI of the file that contains the IPSet.

Type: String

Required: Yes

activate

A boolean value that indicates whether GuardDuty is to start using the uploaded IPSet.

Type: Boolean

Required: Yes

Response Syntax

```
{
  "ipSetId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ipSetId

The unique ID that specifies the newly created IPSet.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter name has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter location has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter format has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because no role was found

HTTP Status Code: 400

BadRequestException

The request is rejected because the service can't assume service role.

HTTP Status Code: 400

AccessDeniedException

The request was rejected because you do not have the required iam:PutRolePolicy permission.

HTTP Status Code: 400

BadRequestException

The request was rejected because the specified service role is not a service role.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

CreateMembers

Creates member GuardDuty accounts to the current AWS account (which becomes the master GuardDuty account) that has GuardDuty enabled.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member
```

Body:

```
{
  "accountDetails": [
    {
      "accountId": "string",
      "email": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty account where you want to create member accounts.

Type: String

Required: Yes

accountDetails

A list of account ID and email address pairs of the accounts that you want to associate with the master GuardDuty account.

Type: Array of strings. Minimum number of items: 1. Maximum number of items: 50.

Required: Yes

accountID

AWS account ID.

Type: String

Required: Yes

email

The email address of the AWS account.

Type: String

Required: Yes

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountID

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the current account cannot create members since it is already an associated member of another master account.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an account cannot become a member of itself.

HTTP Status Code: 200

InvalidInputException

The request is rejected because the given account ID is already a member or associated member of the current account.

HTTP Status Code: 200

LimitExceededException

The request is rejected because the current account cannot create anymore members since it cannot exceed the maximum number of allowed members.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

CreateSampleFindings

Creates sample findings of the types specified by a list of GuardDuty finding types. If 'NULL' is specified for findingTypes, the operation creates sample findings of all supported GuardDuty finding types.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/findings/create
```

Body:

```
{
  "findingTypes": [
    {
      "findingType": "string",
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The ID of the GuardDuty service where you want to create sample findings.

Required: Yes

Type: String

findingTypes

The list of GuardDuty finding types that specifies what types of sample findings you want to create.

Required: Yes

Type: Array of strings

Constraints: Minimum length of 0. Maximum length of 50.

findingType

The type of the GuardDuty finding.

Type: String

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because of invalid finding type is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

CreateThreatIntelSet

Create a new ThreatIntelSet. ThreatIntelSets consist of known malicious IP addresses. GuardDuty generates findings based on ThreatIntelSets.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/threatintelset
```

Body:

```
{
  "name": "string",
  "location": "string",
  "format": "[TXT|STIX|OTX_CSV|ALIEN_VAULT|PROOF_POINT|FIRE_EYE]",
  "activate": "boolean"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service for which you want to create a ThreatIntelSet.

Type: String

Required: Yes

name

A user-friendly ThreatIntelSet name that is displayed in all finding generated by activity that involves IP addresses included in this ThreatIntelSet.

Type: String

Required: Yes

format

The format of the file that contains the ThreatIntelSet.

Type: String. Valid values: TXT | STIX | OTX_CSV | ALIEN_VAULT | PROOF_POINT | FIRE_EYE

Required: Yes

location

The URI of the file that contains the ThreatIntelSet.

Type: String

Required: Yes

activate

A boolean value that indicates whether GuardDuty is to start using the created ThreatIntelSet.

Type: Boolean

Required: Yes

Response Syntax

```
{
  "threatIntelSetId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

threatIntelSetId

The unique ID that specifies the newly created ThreatIntelSet.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified..

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter name has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter location has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter format has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because no role was found

HTTP Status Code: 400

BadRequestException

The request is rejected because the service can't assume service role.

HTTP Status Code: 400

AccessDeniedException

The request was rejected because you do not have the required iam:PutRolePolicy permission.

HTTP Status Code: 400

BadRequestException

The request was rejected because the specified service role is not a service role.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DeclineInvitations

Declines invitations sent to this AWS account (invitee) by the AWS accounts (inviters) specified by the account IDs.

Request Syntax

```
POST https://<endpoint>/invitation/decline
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

accountIds

A list of account IDs specifying accounts whose invitations to GuardDuty you want to decline.

Type: Array of strings

Required: Yes

accountID

AWS account ID.

Type: String

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountID

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DeleteDetector

Deletes the Amazon GuardDuty detector specified by the detector ID.

Request Syntax

```
DELETE https://<endpoint>/detector/{detectorId}
```

Body:

```
detectorId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The unique ID that specifies the detector that you want to delete.

Type: String

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the current account cannot delete detector while it has invited or associated members.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DeleteInvitations

Deletes invitations sent to this AWS account (invitee) by the AWS accounts (inviters) specified by their account IDs.

Request Syntax

```
POST https://<endpoint>/invitation/delete
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

accountIds

A list of account IDs specifying accounts whose invitations to GuardDuty you want to delete.

Type: Array of strings

Required: Yes

accountID

AWS account ID.

Type: String

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountID

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the current account cannot delete the invitation from the given master account ID since it is still associated to it or has not declined their invitation yet.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DeleteIPSet

Deletes the IPSet specified by the IPSet ID.

Request Syntax

```
DELETE https://<endpoint>/detector/{detectorId}/ipset/{ipSetId}
```

Body:

```
detectoId : "string"  
ipSetId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose IPSet you want to delete.

Type: String

Required: Yes

ipSetId

The unique ID that specifies the IPSet that you want to delete.

Type: String

Required: Yes

Response Syntax

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DeleteMembers

Deletes GuardDuty member accounts specified by the account IDs.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member/delete
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty service whose member accounts you want to delete.

Type: String

Required: Yes

accountIds

A list of account IDs of the GuardDuty member accounts that you want to delete.

Type: Array of strings

Required: Yes

accountID

AWS account ID.

Type: String

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountId

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the current account cannot delete the given member account ID since it is still associated to it.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

he request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntryException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DeleteThreatIntelSet

Deletes the ThreatIntelSet specified by the ThreatIntelSet ID.

Request Syntax

```
DELETE https://<endpoint>/detector/{detectorId}/threatintelset/{threatIntelSetId}
```

Body:

```
detectorId : "string"  
threatIntelSetId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose ThreatIntelSet you want to delete.

Type: String

Required: Yes

threatIntelSetId

The unique ID that specifies the ThreatIntelSet that you want to delete.

Type: String

Required: Yes

Response Syntax

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid threatIntelSetId is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because an invalid threatIntelSetId is specified.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DisassociateFromMasterAccount

Disassociates the current GuardDuty member account from its GuardDuty master account.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/master/disassociate
```

Body:

```
detectorId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty member account that wants to disassociate from its GuardDuty master account.

Type: String

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the current account is not associated to a master account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

DisassociateMembers

Disassociates GuardDuty member accounts specified by the account IDs from their master GuardDuty account.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member/disassociate
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The unique ID of the detector of the GuardDuty account whose members you want to disassociate from master.

Type: String

Required: Yes

accountIds

A list of account IDs of the GuardDuty member accounts that you want to disassociate from the master account.

Type: Array of strings

Required: Yes

accountID

AWS account ID.

Type: String

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountID

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the current account cannot delete the given member account ID since it is still associated to it.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntryException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetDetector

Returns the properties of the Amazon GuardDuty detector that is specified by the detectorId.

Request Syntax

```
GET https://<endpoint>/detector/{detectorId}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The unique ID of the detector that you want to describe.

Type: String

Required: Yes

Response Syntax

```
{
  "serviceRole": "string",
  "status": "string",
  "createdAt": "string",
  "updatedAt": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response is in following data in JSON format.

serviceRole

The service-linked role that grants GuardDuty access to the AWS account's resources.

Type: String

status

The current status of the detector.

Type: String. Valid Values: ENABLED | DISABLED

createdAt

The time at which the detector was created.

Type: String

updatedAt

The time at which detector was last updated.

Type: String

Errors

If the action is not successful, the service sends back and HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

Internal server error.

HTTP Status Code: 500

GetFindings

Describes Amazon GuardDuty findings specified by finding IDs.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/findings/get
```

```
{
  "findingIds": [
    "string"
  ],
  "sortCriteria": {
    "attributeName": "string",
    "orderBy": "[ASC|DESC]"
  }
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detector ID that specifies the GuardDuty service whose findings you want to describe.

Type: String

Required: Yes

findingIds

IDs of the findings that you want to describe.

Type: array of Strings. Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

sortCriteria

Represents the criteria used to query for sorting.

Type: sortCriteria

Required: No

attributeName

An attribute in a finding that can be queried.

Type: String

orderBy

The order of the sorting request.

Type: String. Valid values: [ASC | DESC]

Response Syntax

```
{
  "findings": [
    {
      "schemaVersion": "string",
      "accountId": "string",
      "region": "string",
      "partition": "string",
      "id": "string",
      "arn": "string",
      "type": "string",
      "resource": {
        "resourceType": "string",
        "instanceDetails": {
          "iamInstanceProfile": {
            "arn": "string",
            "id": "string"
          },
          "imageId": "string",
          "instanceId": "string",
          "instanceState": "string",
          "instanceType": "string",
          "launchTime": "string",
          "networkInterfaces": [
            {
              "publicDnsName": "string",
              "publicIp": "string",
              "securityGroups": [
                {
                  "groupName": "string",
                  "groupId": "string"
                }
              ]
            }
          ]
        }
      }
    }
  ],
}
```



```
        "ipv6Addresses": [
            "string"
        ],
        "privateDnsName": "string",
        "privateIpAddress": "string",
        "privateIpAddresses": [
            {
                "privateDnsName": "string",
                "privateIpAddress": "string"
            }
        ],
        "subnetId": "string",
        "vpcId": "string"
    }
],
"availabilityZone": "string",
"platform": "string",
"productCodes": [
    {
        "code": "string",
        "productType": "string"
    }
],
"tags": [
    {
        "key": "string",
        "value": "string"
    }
]
},
"accessKeyDetails": {
    "accessKeyId": "string",
    "principalId": "string",
    "userType": "string",
    "userName": "string"
}
},
"service": {
    "serviceName": "string",
    "detectorId": "string",
    "action": {
        "actionType": "string",
        "networkConnectionAction": {
            "connectionDirection": "string",
            "remoteIpDetails": {
                "ipAddressV4": "string",
                "organization": {
                    "asn": "string",
                    "asnOrg": "string",
                    "isp": "string",
                    "org": "string"
                },
            },
            "country": {
                "countryCode": "string",
                "countryName": "string"
            },
            "city": {
                "cityName": "string"
            },
            "geoLocation": {
                "lat": "double",
                "lon": "double"
            }
        },
    },
    "remotePortDetails": {
        "port": "integer",
    }
}
```

```
        "portName": "string"
      },
      "localPortDetails": {
        "port": "integer",
        "portName": "string"
      },
      "protocol": "string",
      "blocked": "boolean"
    },
    "awsApiCallAction": {
      "api": "string",
      "serviceName": "string",
      "callerType": "string",
      "remoteIpDetails": {
        "ipAddressV4": "string",
        "organization": {
          "asn": "string",
          "asnOrg": "string",
          "isp": "string",
          "org": "string"
        },
        "country": {
          "countryCode": "string",
          "countryName": "string"
        },
        "city": {
          "cityName": "string"
        },
        "geoLocation": {
          "lat": "double",
          "lon": "double"
        }
      },
      "domainDetails": {
        "domain": "string"
      }
    },
    "dnsRequestAction": {
      "domain": "string"
    }
  },
  "resourceRole": "string",
  "additionalInfo": {},
  "eventFirstSeen": "string",
  "eventLastSeen": "string",
  "userFeedback": "string",
  "archived": "boolean",
  "count": "string"
},
"title": "string",
"description": "string",
"severity": "float",
"confidence": "float",
"createdAt": "string",
"updatedAt": "string"
}
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

findings

A list of returned findings.

Type: Array

schemaVersion

Finding's schema version.

Type: String

accountId

The AWS account ID where the activity occurred that prompted GuardDuty to generate a finding.

Type: String

region

The AWS region where the activity occurred that prompted GuardDuty to generate a finding.

Type: String

partition

The AWS resource partition where the activity occurred that prompted GuardDuty to generate a finding.

Type: String

id

Finding ID.

Type: String

arn

Finding ARN.

Type: String

type

Finding type.

Type: String

resource

The AWS resource associated with the activity that prompted GuardDuty to generate a finding.

Type: Resource

type

The type of the AWS resource.

Type: String

instanceDetails

The information about the EC2 instance associated with the activity that prompted GuardDuty to generate a finding.

Type: InstanceDetails

iamInstanceProfile

The profile information of the EC2 instance.

Type: iamInstanceProfile

arn

AWS EC2 instance profile ARN.

Type: String

id

AWS EC2 instance profile ID.

Type: String

imageId

The image ID of the EC2 instance.

Type: String

instanceId

The ID of the EC2 instance.

Type: String

instanceState

The state of the EC2 instance.

Type: String

instanceType

The type of the EC2 instance.

Type: String

launchTime

The launch time of the EC2 instance.

Type: String

networkInterfaces

The network interface information of the EC2 instance.

Type: NetworkInterfaces

publicDnsName

Public DNS name of the EC2 instance.

Type: String

publicIp

Public IP address of the EC2 instance.

Type: String

securityGroups

Security groups associated with the EC2 instance.

Type: SecurityGroups

groupName

EC2 instance's security group name.

Type: String

groupId

EC2 instance's security group ID.

Type: String

ipv6Addresses

IPv6 address information of the EC2 instance.

Type: Array of strings

privateDnsName

Private DNS name of the EC2 instance.

Type: String

privateIpAddress

Private IP address of the EC2 instance.

Type: String

privateIpAddresses

Other private IP address information of the EC2 instance.

Type: PrivateIPAddresses

privateDnsName

Private DNS name information corresponding to the private IP address.

Type: String

privateIpAddress

Inet private IP address.

Type: String

subnetId

Subnet ID.

Type: String

vpcId

VPC ID.

Type: String

availabilityZone

The availability zone of the EC2 instance.

Type: String

platform

The platform of the EC2 instance.

Type: String

productCodes

The product code of the EC2 instance..

Type: List of ProductCodes

code

Product code information.

Type: String

productType

Product code type.

Type: String

tags

The tags of the EC2 instance.

Type: Tags

key

EC2 instance tag key.

Type: String

value

EC2 instance tag value.

Type: String

accessKeyDetails

The IAM access key details (IAM user information) of a user that engaged in the activity that prompted GuardDuty to generate a finding.

Type: AccessKeyDetails

accessKeyId

Access key ID of the user.

Type: String

principalId

The principal ID of the user.

Type: String

userType

The type of the user.

Type: String

userName

The name of the user.

Type: String

service

Additional information assigned to the generated finding by GuardDuty.

Type: Service

serviceName

The name of the AWS service (GuardDuty) that generated a finding.

Type: String

detectorId

Detector ID for the GuardDuty service.

Type: String

action

Information about the activity described in a finding.

Type: Action

actionType

GuardDuty Finding activity type.

Type: String

networkConnectionAction

Information about the NETWORK_CONNECTION action described in this finding.

Type: NetworkConnectionAction

connectionDirection

Network connection direction.

Type: String

remoteIpDetails

Remote IP information of the connection.

Type: RemoteIpDetails

ipAddressV4

IPv4 remote address of the connection.

Type: String

organization

ISP Organization information of the remote IP address.

Type: Organization

asn

Autonomous system number of the internet provider of the remote IP address.

Type: String

asnOrg

Organization that registered this ASN.

Type: String

isp

ISP information for the internet provider.

Type: String

org

Name of the internet provider.

Type: String

country

Country information of the remote IP address.

Type: Country

countryName

City name of the remote IP address.

Type: String

countryCode

Country code of the remote IP address.

Type: String

city

City information of the remote IP address.

Type: City

cityName

City name of the remote IP address.

Type: String

geoLocation

Location information of the remote IP address.

Type: GeoLocation

lon

Longitude information of remote IP address.

Type: Double

lat

Latitude information of remote IP address.

Type: Double

remotePortDetails

Remote port information of the connection.

Type: RemotePortDetails

port

Port number of the remote connection.

Type: Integer

portName

Port name of the remote connection.

Type: String

localPortDetails

Local port information of the connection.

Type: LocalPortDetails

port

Port number of the local connection.

Type: Integer

portName

Port name of the local connection.

Type: String

protocol

Network connection protocol.

Type: String

blocked

Network connection blocked information.

Type: Boolean

awsApiCallAction

Information about the AWS_API_CALL action described in this finding.

Type: AwsApiCallAction

api

AWS API name.

Type: String

serviceName

AWS service name whose API was invoked.

Type: String

callerType

AWS API caller type.

Type: String

remoteIpDetails

Remote IP information of the connection..

Type: RemoteIpDetails

ipAddressV4

IPV4 remote address of the connection.

Type: String

organization

ISP Organization information of the remote IP address.

Type: Organization

asn

Autonomous system number of the internet provider.

Type: String

asnOrg

Organization that registered this ASN.

Type: String

isp

ISP information for the internet provider.

Type: String

org

Name of the internet provider.

Type: String

country

Country information of the remote IP address.

Type: Country

countryName

City name of the remote IP address.

Type: String

countryCode

Country code of the remote IP address.

Type: String

city

City information of the remote IP address.

Type: City

cityName

City name of the remote IP address.

Type: String

geoLocation

Location information of the remote IP address.

Type: GeoLocation

lon

Longitude information of remote IP address.

Type: Double

lat

Latitude information of remote IP address.

Type: Double

domainDetails

Domain information for the AWS API call.

Type: DomainDetails

domain

Domain information for the AWS API call.

Type: String

dnsRequestAction

Information about the DNS_REQUEST action described in this finding.

Type: DnsRequestAction

domain

Domain information for the DNS request.

Type: String

resourceRole

Resource role information for this finding.

Type: String

additionalInfo

List of additional information for this finding.

eventFirstSeen

First seen timestamp of the activity that prompted GuardDuty to generate this finding.

Type: String

eventLastSeen

Last seen timestamp of the activity that prompted GuardDuty to generate this finding.

Type: String

userFeedback

Feedback left about the finding.

Type: String

archived

Indicates whether this finding is archived.

Type: Boolean

count

Total count of the occurrences of this finding type.

Type: String

title

The title of a finding.

Type: String

description

The description of a finding..

Type: String

severity

The severity of a finding.

Type: float

confidence

The confidence level of a finding.

Type: float

createdAt

The time stamp at which a finding was generated.

Type: string

updatedAt

The time stamp at which a finding was last updated.

Type: string

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request was rejected because the parameter findingCriteria has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because of invalid finding statistic type is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetFindingsStatistics

Lists Amazon GuardDuty findings' statistics for the specified detector ID.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/findings/statistics
```

Body:

```
{
  "findingCriteria": {
    "criterion": {
      "<field>": {
        "Gt": "integer",
        "Gte": "integer",
        "Lt": "integer",
        "Lte": "integer",
        "Eq": [
          "string"
        ],
        "Neq": [
          "string"
        ]
      }
    }
  }
  "findingStatisticTypes": {
    "findingStatisticType": "[COUNT_BY_SEVERITY]"
  }
}
```

```
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The ID of the detector that specifies the GuardDuty service whose findings' statistics you want to get.

Required: Yes

findingCriteria

Represents the criteria used for querying findings.

Type: FindingCriteria

Required: No

Gt

Represents the 'greater than' condition to be applied to a single field when querying for findings.

Required: No

Gte

Represents the 'greater than equal' condition to be applied to a single field when querying for findings.

Required: No

Lt

Represents the 'less than' condition to be applied to a single field when querying for findings.

Required: No

Lte

Represents the 'less than equal' condition to be applied to a single field when querying for findings.

Required: No

Eq

Represents the 'equal to' condition to be applied to a single field when querying for findings.

Required: No

Neq

Represents the 'not equal to' condition to be applied to a single field when querying for findings.

Required: No

findingStatisticTypes

The list of the finding statistics.

Required: Yes

Type: Array of strings. Minimum items 1, maximum items 10.

FindingStatisticType

The types of finding statistics.

Type: String. Valid values: [COUNT_BY_SEVERITY]

Response Syntax

```
{
  "findingStatistics": [
    {
      "countBySeverity": "integer",
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

findingStatistics

Represents a map of severity/count statistic for a set of findings.

Type: Integer

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request was rejected because the parameter findingCriteria has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because of invalid finding statistic type is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetInvitationsCount

Returns the count of all GuardDuty membership invitations that were sent to the current member account, not including the currently accepted invitation.

Request Syntax

```
GET https://<endpoint>/invitation/count
```

Response Syntax

```
{  
  "invitationsCount": "integer"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

invitationsCount

A number of all membership invitations sent to this GuardDuty member account not including the currently accepted invitation.

Type: Integer

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetIPSet

Returns the properties of the IPSet specified by the IPSet ID.

Request Syntax

```
GET https://<endpoint>/detector/{detectorId}/ipset/{ipSetId}
```

Body:

```
detectorId : "string"  
ipSetId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose properties IPSet you want to return.

Type: String

Required: Yes

ipSetId

The unique ID that specifies the IPSet whose properties you want to return.

Type: String

Required: Yes

Response Syntax

```
{
  "name": "string",
  "location": "string",
  "format": "[TXT|STIX|OTX_CSV|ALIEN_VAULT|PROOF_POINT|FIRE_EYE]",
  "status": "[INACTIVE|ACTIVATING|ACTIVE|DEACTIVATING|ERROR|DELETE_PENDING|DELETED]"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

name

The name of the IPSet.

Type: String

location

The URI of the file that contains the IPSet.

Type: String

format

The format of the file that contains the IPSet.

Type: String

Values : TXT|STIX|OTX_CSV|ALIEN_VAULT|PROOF_POINT|FIRE_EYE

status

The current status of the IPSet.

Valid values : INACTIVE|ACTIVATING|ACTIVE|DEACTIVATING|ERROR|DELETE_PENDING|DELETED

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetMasterAccount

Provides the details for the GuardDuty master account to the current GuardDuty member account.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/master
```

Body:

```
detectorId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty member account whose master account details you want to return.

Required: Yes

Type: String

Response Syntax

```
{
  "master": [
    {
      "accountId": "string",
      "invitationId": "string",
      "invitedAt": "string",
      "relationshipStatus": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

master

A list of details about the GuardDuty master account for the current member account.

Type: Array

accountId

The account ID of a GuardDuty master account.

Type: String

invitationId

The ID of the invitation sent to the member by the GuardDuty master account

Type: String

invitedAt

The timestamp at which the invitation was sent to the member by the GuardDuty master account.

Type: String

relationshipStatus

The status of the relationship between the master account and the member account. Valid values are: Staged | Pending | Disabled | Enabled | Removed | Resigned.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetMembers

Returns the details on the GuardDuty member accounts specified by the account IDs.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member/get
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty account on whose members you want to return the details.

Type: String

Required: Yes

accountIds

A list of account IDs for the GuardDuty member accounts on which you want to return the details.

Type: Array of strings

Required: Yes

accountId

AWS account ID.

Type: String

Response Syntax

```
{
  "members": [
    {
      "accountId": "string",
      "detectorId": "string",
      "email": "string",
      "masterId": "string",
      "relationshipStatus": "string",
      "invitedAt": "string",
      "updatedAt": "string"
    }
  ],
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

members

A list of details about the GuardDuty member accounts.

Type: Array

accountId

AWS account ID.

Type: String

detectorId

The unique ID of the GuardDuty member account.

Type: String

email

The email address of the GuardDuty member account.

Type: String

masterId

The account ID of the master GuardDuty for a member account.

Type: String

relationshipStatus

The status of the relationship between the member account and its master account. Valid values: Created | Invited | Disabled | Enabled | Removed | Resigned.

Type: String

invitedAt

Timestamp at which the member account was invited to GuardDuty.

Type: String

updatedAt

Timestamp at which this member account was updated.

Type: String

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountID

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

GetThreatIntelSet

Returns the properties of the ThreatIntelSet that is specified by the ThreatIntelSet ID.

Request Syntax

```
GET https://<endpoint>/detector/{detectorId}/threatintelset/{threatIntelSetId}
```

Body:


```
detectorId : "string"  
threatIntelSetId : "string"
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose ThreatIntelSet properties you want to return.

Type: String

Required: Yes

threatIntelSetId

The unique ID that specifies the ThreatIntelSet whose properties you want to return.

Type: String

Required: Yes

Response Syntax

```
{  
  "name": "string",  
  "location": "string",  
  "format": "[TXT | STIX | OTX_CSV | ALIEN_VAULT | PROOF_POINT | FIRE_EYE]",  
  "status": "[INACTIVE | ACTIVATING | ACTIVE | DEACTIVATING | ERROR | DELETE_PENDING |  
  DELETED]"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

name

The name of the ThreatIntelSet.

Type: String

location

The URI of the file that contains the ThreatIntelSet.

Type: String

format

The format of the file that contains the ThreatIntelSet.

Type: String

Valid values : TXT | STIX | OTX_CSV | ALIEN_VAULT | PROOF_POINT | FIRE_EYE

status

The current status of the ThreatIntelSet.

Type: String

Valid values: INACTIVE | ACTIVATING | ACTIVE | DEACTIVATING | ERROR | DELETE_PENDING | DELETED

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid threatIntelSetId is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because an invalid threatIntelSetId is specified.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

InviteMembers

Invites other AWS accounts to enable GuardDuty and become GuardDuty member accounts, thus allowing the master GuardDuty account to view and manage their GuardDuty findings on their behalf.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member/invite
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    },
    "message": "string"
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty account with which you want to invite members.

Required: Yes

Type: String

accountIds

A list of ID of the AWS accounts that you want to invite to GuardDuty as members.

Type: Array of strings

Required: Yes

accountID

AWS account ID

Type: String

message

The invitation message that you want to send to the accounts that you're inviting to GuardDuty as members.

Type: String

Required: No

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountId

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the current account cannot invite other accounts since it is already an associated member of another master account.

HTTP Status Code: 200

InvalidInputException

The request is rejected because the current account cannot invite itself.

HTTP Status Code: 200

InvalidInputException

The request is rejected because member account's email address is missing.

HTTP Status Code: 200

InvalidInputException

The request is rejected because the current account has already invited or is already the GuardDuty master of the given member account ID.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ListDetectors

Lists detectorIds of all existing enabled Amazon GuardDuty detectors in the AWS account.

Important

Currently, GuardDuty only supports one detector resource per AWS account.

Request Syntax

```
GET https://<endpoint>/detector
```

Body:

```
{
  "maxResults": "integer",
  "nextToken": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

maxResults

You can use this parameter to indicate the maximum number of items that you want in the response.

Type: Integer

Required: No

Default: 50

Constraints: Minimum value is 1. Maximum value is 50.

nextToken

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListDetectors action. For subsequent calls to the action, fill nextToken in the request with the value of NextToken from the previous response to continue listing data.

Type: String

Required: No

Response Syntax

Body:

```
{
  "detectorIds": [list of detector IDs]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response is in following data in JSON format.

detectorIds

The list of all enabled detector's IDs.

Type: Array of strings

nextToken

Token required for pagination

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `maxResults` has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `maxResults` is out-of-bounds.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ListFindings

Lists Amazon GuardDuty findings for the specified detector ID.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/findings
```

Body:

```
{
```

```
"findingCriteria": {
  "criterion": {
    "<field>": {
      "Gt": "integer",
      "Gte": "integer",
      "Lt": "integer",
      "Lte": "integer",
      "Eq": [
        "string"
      ],
      "Neq": [
        "string"
      ]
    }
  }
},
"sortCriteria": {
  "attributeName": "string",
  "orderBy": "[ASC|DESC]"
},
"maxResults": "integer",
"nextToken": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The ID of the detector that specifies the GuardDuty service whose findings you want to list.

Type: String

Required: Yes

maxResults

You can use this parameter to indicate the maximum number of items you want in the response.

Type: Integer

Required: No

Default: 50

Constraints: Minimum value is 1. Maximum value is 50.

nextToken

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListFindings action. For subsequent calls to the action fill nextToken in the request with the value of nextToken from the previous response to continue listing data.

Type: String

Required: No

findingCriteria

Represents the criteria used for querying findings.

Type: FindingCriteria

Required: No

Gt

Represents the 'greater than' condition to be applied to a single field when querying for findings.

Required: No

Gte

Represents the 'greater than equal' condition to be applied to a single field when querying for findings.

Required: No

Lt

Represents the 'less than' condition to be applied to a single field when querying for findings.

Required: No

Lte

Represents the 'less than equal' condition to be applied to a single field when querying for findings.

Required: No

Eq

Represents the 'equal to' condition to be applied to a single field when querying for findings.

Required: No

Neq

Represents the 'not equal to' condition to be applied to a single field when querying for findings.

Required: No

sortCriteria

Represents the criteria used for sorting findings.

Type: SortCriteria

Required: No

attributeName

Represents the parameter in a finding which can be queried.

Type: String

Required: No

orderBy

Represents the order of the sorting request.

Valid values: ASC | DESC

Type: String

Required: No

Response Syntax

```
{
  "findingIds": [
    "string"
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

findingIds

A list of Ids that specify the findings returned by the action.

Type: Array of strings

nextToken

Token required for pagination

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `maxResults` has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `maxResults` is out-of-bounds.

HTTP Status Code: 400

InvalidInputException

The request was rejected because the parameter `findingCriteria` has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `sortCriteria` has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input `detectorId` is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ListInvitations

Lists all GuardDuty membership invitations that were sent to the current AWS account.

Request Syntax

```
GET https://<endpoint>/invitation
```

Body:

```
{
  "maxResults" : "integer"
  "nextToken" : "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

maxResults

You can use this parameter to indicate the maximum number of items you want in the response.

Type: Integer

Required: No

Default: 50

Constraints: Minimum value is 1. Maximum value is 50.

nextToken

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListInvitations action. Subsequent calls to the action fill nextToken in the request with the value of NextToken from the previous response to continue listing data.

Required: No

Type: String

Response Syntax

```
{
  "invitations": [
    {
      "accountId": "string",
      "invitationId": "string",
      "invitedAt": "string",
      "relationshipStatus": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

invitations

A list of details about GuardDuty membership invitations that were sent to this AWS account.

Type: Array

accountId

The ID of the AWS account that sent the invitation.

Type: String

invitationId

The unique ID of the invitation.

Type: String

invitedAt

The timestamp at which the invitation was sent.

Type: String

relationshipStatus

The current relationship status between the inviter and invitee accounts. Valid values are: Created | Invited | Disabled | Enabled | Removed | Resigned.

Type: String

nextToken

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the nextToken parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter maxResults has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter maxResults is out-of-bounds.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ListIPSets

Lists the IP Sets of the GuardDuty service specified by the detector ID.

Request Syntax

Path parameters:

```
GET https://<endpoint>/detector/{detectorId}/ipset
```

Body:

```
{
  "maxResults": "integer",
  "nextToken": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose IPSets you want to list.

Type: String

Required: Yes

maxResults

You can use this parameter to indicate the maximum number of items that you want in the response.

Type: Integer

Required: No

Default: 50

Constraints: Minimum value is 1. Maximum value is 50.

nextToken

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListIPSets action. For subsequent calls to the action fill nextToken in the request with the value of NextToken from the previous response to continue listing data.

Type: String

Required: No

Response Syntax

```
{
  "ipSetIds": [
    "string"
  ],
  "nextToken": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

ipSetIds

A list of IDs that specify the IP Sets of the specified GuardDuty service.

Type: Array of strings

nextToken

Token required for pagination.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter maxResults has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter maxResults is out-of-bounds.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ListMembers

Lists details about all member accounts for the current GuardDuty master account.

Request Syntax

```
GET https://<endpoint>/detector/{detectorId}/member
```

Body:

```
{
  "maxResults": "integer",
  "nextToken": "string",
  "onlyAssociated": "boolean"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty account whose members you want to list.

Required: Yes

Type: String

maxResults

You can use this parameter to indicate the maximum number of items you want in the response.

Required: No

Type: String

Default: 50

Constraints: Minimum value is 1. Maximum value is 50.

nextToken

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListMembers action. Subsequent calls to the action fill nextToken in the request with the value of NextToken from the previous response to continue listing data.

Required: No

Type: String

onlyAssociated

Specifies what member accounts the response is to include based on their relationship status with the master account. The default value is TRUE. If `onlyAssociated` is set to TRUE, the response will include member accounts whose relationship status with the master is set to Enabled or Disabled. If `onlyAssociated` is set to FALSE, the response will include all existing member accounts.

Required: No

Type: Boolean

Default: True

Response Syntax

```
{
  "members": [
    {
      "accountId": "string",
      "detectorId": "string",
      "email": "string",
      "masterId": "string",
      "relationshipStatus": "string",
      "invitedAt": "string",
      "updatedAt": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

members

A list of details about the GuardDuty member accounts.

Type: Array

accountId

AWS account ID.

Type: String

detectorId

The unique ID of the GuardDuty member account.

Type: String

email

The email address of the GuardDuty member account.

Type: String

masterId

The account ID of the master GuardDuty for a member account.

Type: String

relationshipStatus

The status of the relationship between the member account and its master account. Valid values: Created | Invited | Disabled | Enabled | Removed | Resigned.

Type: String

invitedAt

Timestamp at which the member account was invited to GuardDuty.

Type: String

updatedAt

Timestamp at which this member account was updated.

Type: String

nextToken

When a response is generated, if there is more data to be listed, this parameter is present in the response and contains the value to use for the nextToken parameter in a subsequent pagination request. If there is no more data to be listed, this parameter is set to null.

Type: Integer

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `maxResults` has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `maxResults` is out-of-bounds.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter `onlyAssociated` has an invalid value.

HTTP Status Code: 400

NoSuchEntryException

The request is rejected because the input `detectorId` is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

ListThreatIntelSets

Lists the ThreatIntelSets of the GuardDuty service specified by the detector ID.

Request Syntax

```
GET https://<endpoint>/detector/{detectorId}/threatintelset
```

Body:

```
{
  "maxResults": "integer",
  "nextToken": "string"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose ThreatIntelSets you want to list.

Type: String

Required: Yes

maxResults

You can use this parameter to indicate the maximum number of items that you want in the response.

Type: Integer

Required: No

Default: 50

Constraints: Minimum value is 1. Maximum value is 50.

nextToken

You can use this parameter when paginating results. Set the value of this parameter to null on your first call to the ListThreatIntelSets action. For subsequent calls to the action fill nextToken in the request with the value of NextToken from the previous response to continue listing data.

Type: String

Required: No

Response Syntax

If the action is successful, the service sends back an HTTP 200 response.

```
{
  "threatIntelSetIds": [
    "string"
  ],
  "nextToken": "string"
}
```

Response Elements

The following data is returned in JSON format by the service.

threatIntelSetIds

A list of Ids that specify the ThreatIntelSets of the specified GuardDuty service.

Type: array of Strings

Constraints: Minimum number of 0 items. Maximum number of 50 items.

nextToken

Token required for pagination.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter maxResults has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter maxResults is out-of-bounds.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

StartMonitoringMembers

Re-enables GuardDuty to monitor findings of the member accounts specified by the account IDs. A master GuardDuty account can run this command after disabling GuardDuty from monitoring these members' findings by running [StopMonitoringMembers](#) (p. 121).

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member/start
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty account whom you want to re-enable to monitor members' findings.

Type: String

Required: Yes

accountIds

A list of account IDs of the GuardDuty member accounts whose findings you want the master account to re-enable monitoring.

Type: Array of strings

Required: Yes

accountID

AWS account ID.

Type: String

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountID

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the given account ID is not an associated member of the current account.

HTTP Status Code: 200

InvalidInputException

The request is rejected because the given handshake role of the given member account ID cannot be assumed by GuardDuty on behalf of the given master account ID.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

StopMonitoringMembers

Disables GuardDuty from monitoring findings of the member accounts specified by the account IDs. After running this command, a master GuardDuty account can run [StartMonitoringMembers \(p. 118\)](#) to re-enable GuardDuty to monitor these members' findings.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/member/stop
```

Body:

```
{
  "accountIds": [
    {
      "accountId": "string"
    }
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The detector ID of the GuardDuty account whom you want to stop from monitoring members accounts' findings.

Type: String

Required: Yes

accountIds

A list of account IDs of the GuardDuty member accounts whose findings you want the master account to stop monitoring.

Type: Array of strings

Required: Yes

accountID

AWS account ID.

Type: String

Response Syntax

```
{
  "unprocessedAccounts": [
    {
      "accountId": "string",
      "result": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

unprocessedAccounts

A list of account ID and email address pairs of the AWS accounts that could not be processed.

Type: Array of strings

accountId

The ID of the AWS account that could be processed.

Type: String

result

The reason why the AWS account could not be processed.

Type: String

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because the given account ID is not an associated member of account the current account.

HTTP Status Code: 200

InvalidInputException

The request is rejected because the given handshake role of the given member account ID cannot be assumed by GuardDuty on behalf of the given master account ID.

HTTP Status Code: 200

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

UnarchiveFindings

Unarchives Amazon GuardDuty findings specified by the list of finding IDs.

Request Syntax

Path parameters:

```
POST https://<endpoint>/detector/{detectorId}/findings/unarchive
```

Body:

```
{
  "findingIds": [
    "string"
  ]
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The ID of the detector that specifies the GuardDuty service whose findings you want to unarchive.

Required: Yes

findingIds

IDs of the findings that you want to unarchive.

Type: Array of strings. Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the number of requested finding IDs is out of bounds.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

UpdateDetector

Updates the Amazon GuardDuty detector specified by the detectorId.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}
```

Body:

```
{  
  "enable" : "boolean"  
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorID

The unique ID of the detector that you want to update.

Type: String

Required: Yes

enable

Updated boolean value for the detector that specifies whether the detector is enabled.

Type: Boolean

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

AccessDeniedException

The request was rejected because you do not have the required iam:CreateServiceLinkedRole permission.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

UpdateFindingsFeedback

Marks specified Amazon GuardDuty findings as useful or not useful.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/findings/feedback
```

Body:

```
{
  "findingIds": [
    "string"
  ]
}
```

```
  ],  
  "feedback": "[USEFUL|NOT_USEFUL]",  
  "comments": "string"  
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detector ID of the GuardDuty service whose findings you want to mark as useful or not useful.

Type: String

findingIds

IDs of the findings that you want to mark as useful or not useful.

Type: Array of strings. Minimum number of 0 items. Maximum number of 50

Required: Yes

feedback

Type: String

Required: Yes

Valid values: USEFUL | NOT_USEFUL

comments

Additional feedback about the GuardDuty findings.

Type: String

Required: No

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request was rejected because the parameter comment has an invalid value..

HTTP Status Code: 400

InvalidInputException

The request is rejected because the number of requested finding Ids is out of bounds.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

UpdateIPSet

Updates the IPSet specified by the IPSet ID.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/ipset/{ipSetId}
```

Body:

```
{
  "name": "string",
  "location": "string",
  "activate": "boolean"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose IPSet you want to update.

Type: String

Required: Yes

ipSetId

The unique ID that specifies the IPSet that you want to update.

Type: String

Required: Yes

name

The updated user-friendly name for the IPSet.

Type: String

Required: No

location

The updated URI of the file that contains the IPSet.

Type: String

Required: No

activate

The updated boolean value that specifies whether the IPSet is active or not.

Type: Boolean

Required: No

Response Syntax

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information.

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because no role was found

HTTP Status Code: 400

BadRequestException

The request is rejected because the service can't assume service role.

HTTP Status Code: 400

AccessDeniedException

The request was rejected because you do not have the required iam:PutRolePolicy permission.

HTTP Status Code: 400

BadRequestException

The request was rejected because the specified service role is not a service role.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

UpdateThreatIntelSet

Updates the ThreatIntelSet specified by ThreatIntelSet ID.

Request Syntax

```
POST https://<endpoint>/detector/{detectorId}/threatintelset/{threatIntelSetId}
```

Body:

```
{
  "name": "string",
  "location": "string",
  "activate": "boolean"
}
```

Request Parameters

The request accepts the following data in JSON format.

detectorId

The detectorID that specifies the GuardDuty service whose ThreatIntelSet you want to update.

Type: String

Required: Yes

threatIntelSetId

The unique ID that specifies the ThreatIntelSet that you want to update.

Type: String

Required: Yes

name

The updated user-friendly name for the ThreatIntelSet.

Type: String

Required: No

location

The updated URI of the file that contains the ThreatIntelSet.

Type: String

Required: No

activate

The updated boolean value that specifies whether the ThreatIntelSet is active or not.

Required: No

Type: Boolean

Response Syntax

If the action is successful, the service sends back an HTTP 200 response.

Errors

If the action is not successful, the service sends back an HTTP error response code along with detailed error information

InvalidInputException

The request is rejected because an invalid or out-of-range value is specified as an input parameter.

HTTP Status Code: 400

InvalidInputException

The request is rejected because required query or path parameters are not specified.

HTTP Status Code: 400

InvalidInputException

The request is rejected because one or more input parameters have invalid values.

HTTP Status Code: 400

InvalidInputException

The request is rejected because the parameter detectorId has an invalid value.

HTTP Status Code: 400

InvalidInputException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because the input detectorId is not owned by the current account.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because an invalid ipSetId is specified.

HTTP Status Code: 400

AccessDeniedException

The request is rejected because the caller is not authorized to call this API.

HTTP Status Code: 400

NoSuchEntityException

The request is rejected because no role was found

HTTP Status Code: 400

BadRequestException

The request is rejected because the service can't assume service role.

HTTP Status Code: 400

AccessDeniedException

The request was rejected because you do not have the required iam:PutRolePolicy permission.

HTTP Status Code: 400

BadRequestException

The request was rejected because the specified service role is not a service role.

HTTP Status Code: 400

InternalException

Internal server error.

HTTP Status Code: 500

Document History for Amazon GuardDuty

The following table describes the documentation for this release of GuardDuty.

- **API version:** 1.0
- **Latest documentation update:** November 28, 2017

Change	Description	Date
Initial publication	Initial publication of the Amazon GuardDuty User Guide.	November 28, 2017

AWS Glossary

For the latest AWS terminology, see the [AWS Glossary](#) in the *AWS General Reference*.