

Hands-on tutorials

Set up the Elastic Beanstalk Command Line Interface



Set up the Elastic Beanstalk Command Line Interface: Hands-on tutorials

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Set up the Elastic Beanstalk Command Line Interface with AWS Elastic Beanstalk and AWS Identity and Access Management (IAM)

| | |
|-------------------------|--|
| AWS experience | Beginner |
| Cost to complete | Free tier eligible There is no additional charge for AWS Elastic Beanstalk. The resources you create in this tutorial are Free Tier eligible. |
| Requirements | An AWS account |

Introduction

In this step-by-step tutorial, you will set up the Elastic Beanstalk Command Line Interface (EB CLI). This is part one of a two-part tutorial. In the second half of EB CLI tutorial, you will deploy and monitor an application on the AWS cloud.

Elastic Beanstalk (EB) is a service used to deploy, manage, and scale web applications and services. You can use Elastic Beanstalk from the [AWS Management console](#) or from the command line using the Elastic Beanstalk Command Line Interface (EB CLI). You should use the EB CLI as part of your everyday development and testing cycle when you favor using the terminal.

You can use EB with popular languages and frameworks including Node, PHP, Java, Python, Ruby, .NET/IIS, Tomcat, Docker, and Multi-Container Docker.

During this part of the EB CLI tutorial, you will set up a user with the proper permissions then install the EB CLI.

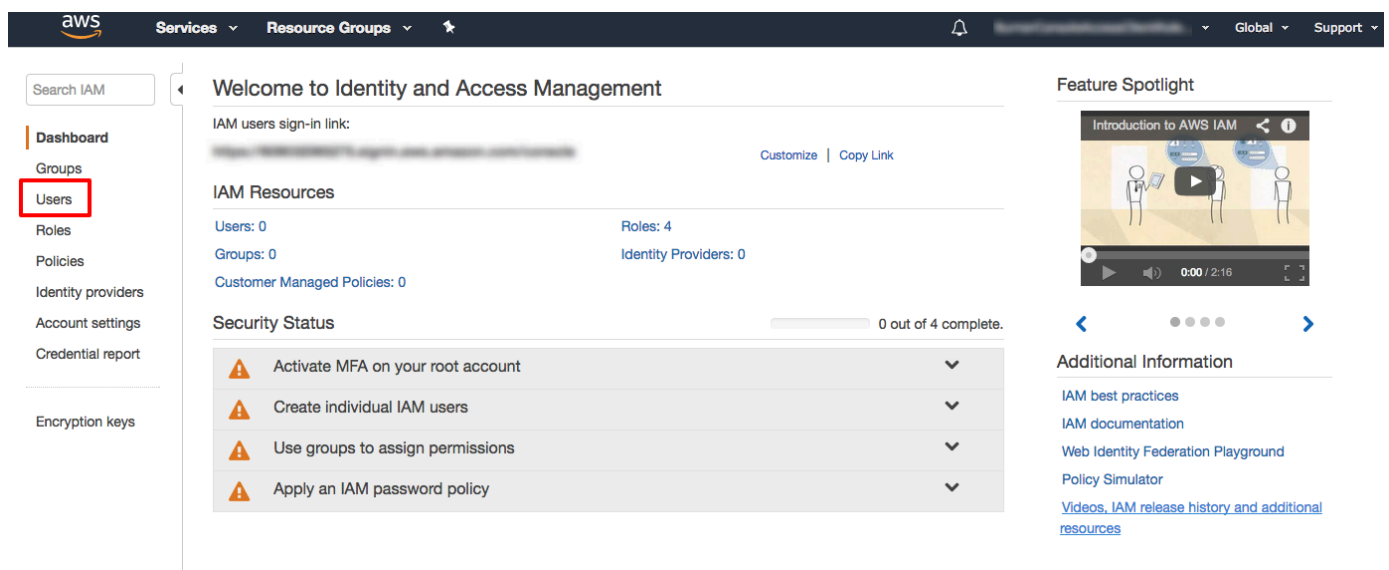
Implementation

Step 1: Create and set up an IAM user

In this step, you will create an IAM user and grant access for the user to use AWS from the command line. Next, you will grant the user an Elastic Beanstalk IAM permission. Finally, you will download the user credentials for use later in the tutorial.

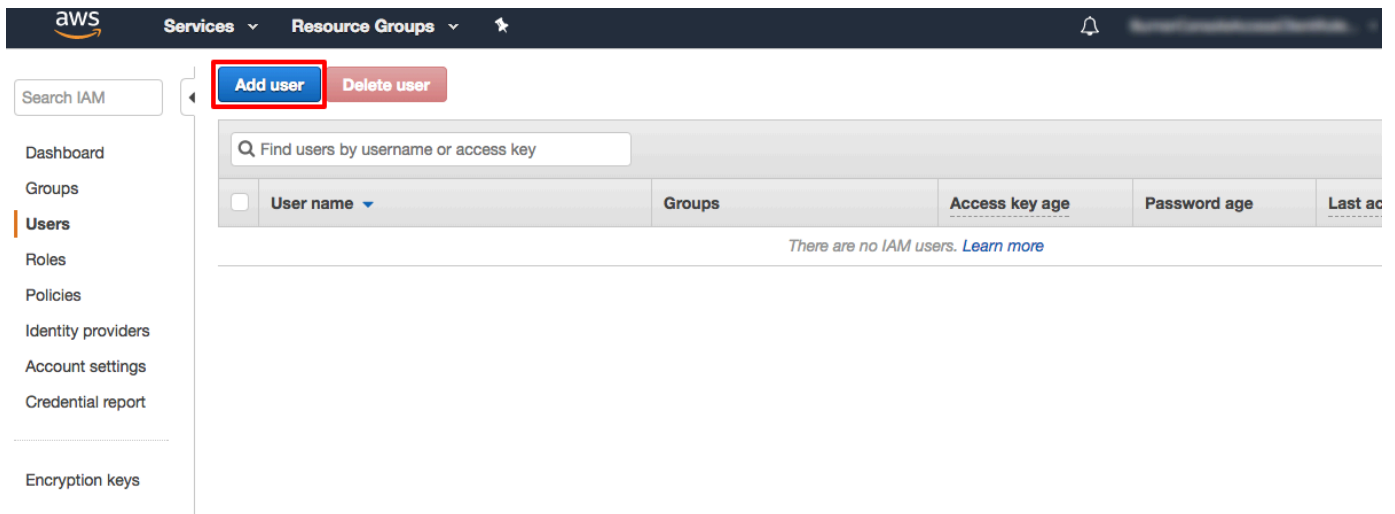
1. Open the IAM Console

Open the [AWS Identity and Access Management \(IAM\) console](#). In the navigation pane on the left, select **Users**.



2. Add a new user

Select **Add user**.



3. Configure users

For **User name**, enter **eb-admin**.

To use the EB CLI with the **eb-admin** user, it needs programmatic access to AWS. But to use the EB CLI, **eb-admin** does not need access to the AWS Management console.

Understanding that, for Access type, choose **Programmatic access**.

Leave **AWS Management Console access** unchecked.

Select **Next: Permissions**.

Add user

1 Details — 2 Permissions — 3 Review — 4 Complete

Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name* [+ Add another user](#)

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

AWS Management Console access
Enables a **password** that allows users to sign-in to the AWS Management Console.

* Required [Cancel](#) [Next: Permissions](#)

4. Add user to group

Select **Add user to group** then select **Create group**.

The screenshot shows the AWS IAM console interface for adding a user. At the top, the navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a search icon. The main header reads 'Add user'. Below this is a progress indicator with four steps: 1. Details, 2. Permissions (current step), 3. Review, and 4. Complete. The main content area is titled 'Set permissions for eb-admin' and contains three options: 'Add user to group' (highlighted with a red box), 'Copy permissions from existing user', and 'Attach existing policies directly'. Below these options is a blue information box titled 'Get started with groups' with a 'Create group' button (also highlighted with a red box). At the bottom right, there are three buttons: 'Cancel', 'Previous', and 'Next: Review'.

5. Configure group

In the **Group name** field, enter **eb-admins**. In the policy section of this screen, you need to select the IAM policy which grants members of the group full access to Elastic Beanstalk.

In the policy search box, type **AWSElasticBeanstalkFullAccess**.

Select **AWSElasticBeanstalkFullAccess** and select **Create group**.

The screenshot shows the 'Create group' dialog in the AWS IAM console. The 'Group name' field is set to 'eb-admins'. Below the search bar, a table lists the search results for the policy 'AWSElasticBeanstalkFullAccess'. The table has columns for 'Policy name', 'Type', 'Attachments', and 'Description'. The first row is selected, showing the policy name 'AWSElasticBeanstalkFullAc...', type 'AWS managed', 0 attachments, and a description 'Provides full access to AWS Elastic Beanstalk and underlying servi...'. The 'Create group' button is highlighted in red.

| Policy name | Type | Attachments | Description |
|------------------------------|-------------|-------------|---|
| AWSElasticBeanstalkFullAc... | AWS managed | 0 | Provides full access to AWS Elastic Beanstalk and underlying servi... |

6. Verify the policy is attached

You will see **eb-admin** created with the **AWSElasticBeanstalkFullAccess** policy attached to the group.

Select **Next: Review**.

The screenshot shows the AWS IAM console interface for adding a user. At the top, the navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a search icon. The main header is 'Add user', followed by a progress indicator with four steps: 1. Details, 2. Permissions (current step), 3. Review, and 4. Complete. Below the header, the section is titled 'Set permissions for eb-admin'. Three options are presented: 'Add user to group' (selected), 'Copy permissions from existing user', and 'Attach existing policies directly'. A callout box for the 'Add user to group' option contains the following text: 'Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)'. Below this text are 'Create group' and 'Refresh' buttons. A search bar is present with the text 'Showing 1 result'. A table lists the available groups and their attached policies:

| Group | Attached policies |
|---|-------------------------------|
| <input checked="" type="checkbox"/> eb-admins | AWSElasticBeanstalkFullAccess |

At the bottom right of the wizard, there are three buttons: 'Cancel', 'Previous', and 'Next: Review' (highlighted with a red border).

7. Review configuration

Review your user details and permissions. Select **Create group**.

8. Download credentials

In a later step, you will need to use **eb-admin's** access key from this page.

Save the access key and secret access key on your workstation by selecting **Download .csv**. Select **Close**.

The screenshot shows the AWS IAM console 'Add user' page. At the top, there is a navigation bar with the AWS logo, 'Services', 'Resource Groups', and a search icon. On the right, there are 'Global' and 'Support' links. Below the navigation bar, the page title is 'Add user'. A progress indicator shows four steps: 1. Details, 2. Permissions, 3. Review, and 4. Complete (highlighted in blue). A green success message box contains the text: 'Success. You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time. Users with AWS Management Console access can sign-in at: <https://609032065275.signin.aws.amazon.com/console>'. Below the message is a 'Download .csv' button, which is highlighted with a red box. Underneath is a table with columns: 'User', 'Access key ID', and 'Secret access key'. The table contains one row for 'eb-admin' with Access key ID 'AKIAINDGEN3WNQFB2NSQ' and Secret access key '***** Show'. At the bottom right, there is a 'Close' button, also highlighted with a red box.

| User | Access key ID | Secret access key |
|----------|----------------------|-------------------|
| eb-admin | AKIAINDGEN3WNQFB2NSQ | ***** Show |

Step 2: Install the EB CLI

In this step, you will install the EB command line interface. Follow the OS specific configuration steps.

Windows

1. Download and install Python 3.6+ by going to the [Python Software Foundation](https://www.python.org/) website and choose the version of Python for your OS. Make sure and select **Add Python to environment variables** in the Python installer so Python will work from any command line location. The Python installer will install Python and the pip package manager.
2. Start the Windows Command Prompt using the Run Window (Win +R on your keyboard) and typing **cmd** then pressing **Enter**.
3. Using the Windows Command Prompt, confirm that Python is installed properly by running:

```
python --version
```

4. Using the Windows Command Prompt, confirm that pip is installed properly by running:

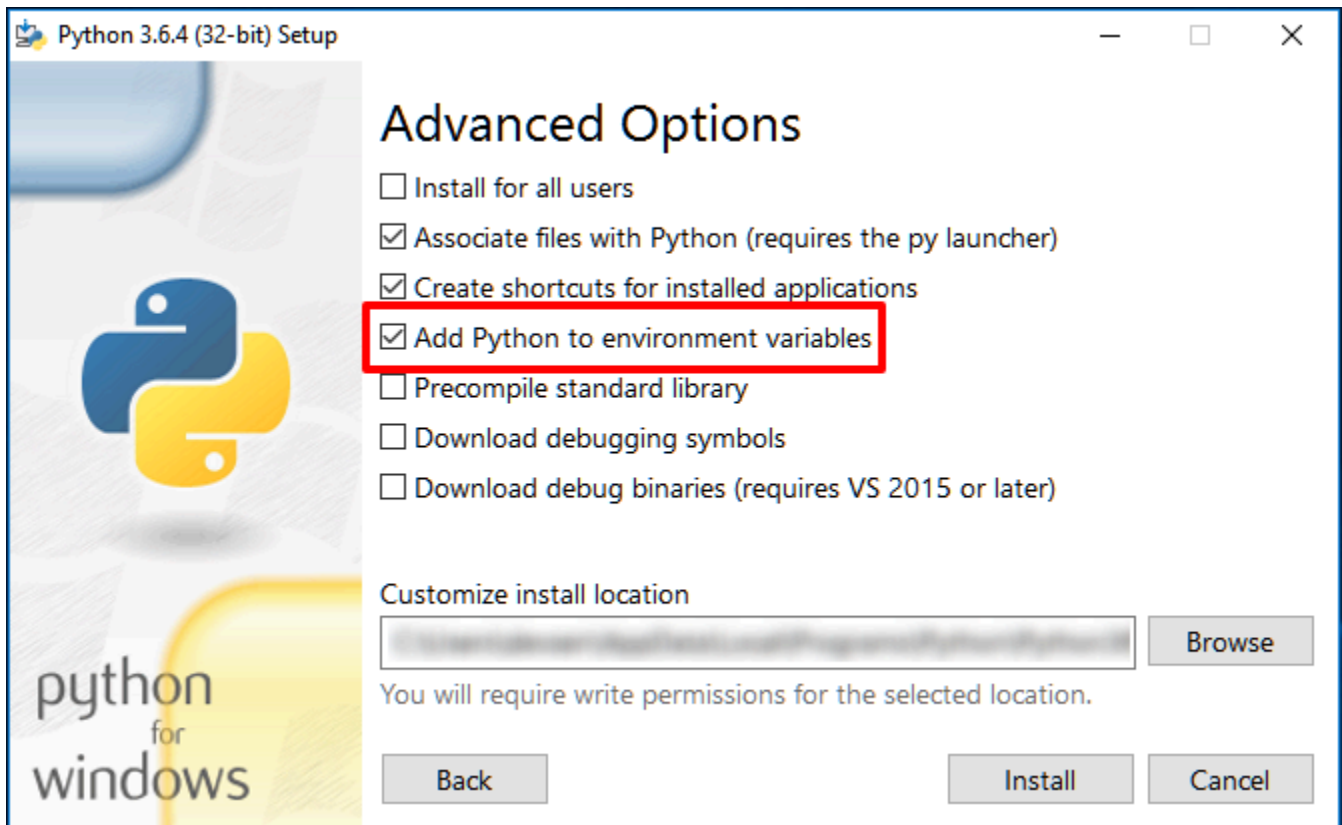
```
pip --version
```

5. Now that Python and pip has been installed, install the EB CLI by running:

```
pip install awsebcli --upgrade --use
```

- Now confirm that the EB CLI is installed correctly by running:

```
eb --version
```



Linux

- Your modern Linux distro probably includes Python by default. Confirm that Python is installed by starting a terminal session and running the following command:

```
python --version
```

- If your Python Version is 2.7, continue with these installation instructions. If your Python is greater than 2.7, do not use these installation instructions. Use the comprehensive [EB CLI installation instructions](#).
- Now confirm that the pip Python package manager is installed by running the following command:

```
pip --version
```

- Now that Python and pip have been verified, install the EB CLI by running:

```
pip install awsebcli --upgrade --user
```

- Now confirm that the EB CLI is installed correctly by running:

```
eb --version
```

macOS

- Start the macOS terminal application.
- If you have the [Homebrew package manager](#) on your mac, update your homebrew fomulae by running the following command in Terminal:

```
brew update
```

- If you don't have the the [Homebrew package manager](#) installed, install it by running the following command in Terminal:

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

- Using Homebrew, install the EB CLI by running the following command in Terminal:

```
brew install awsebcli
```

- Now confirm that the EB CLI is installed correctly by running:

```
eb --version
```

Congratulations!

Congratulations, you have set up the Elastic Beanstalk Command Line Interface. You should use the EB CLI to deploy and manage applications whenever you want the power of Elastic Beanstalk from the command line.