

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.

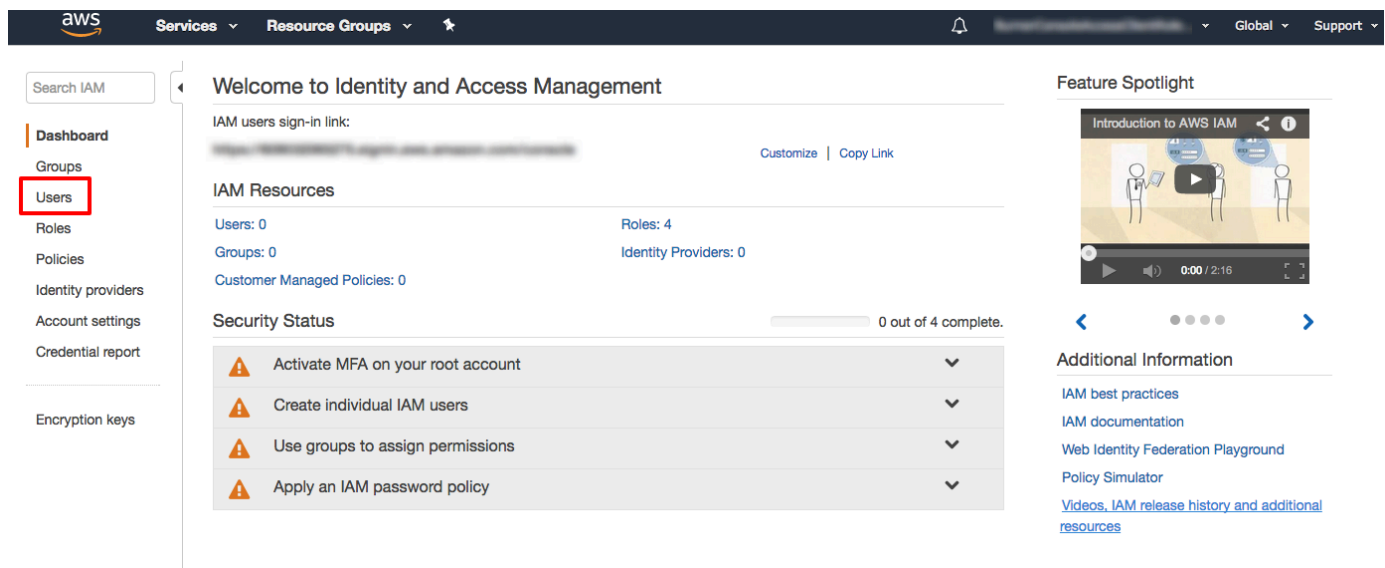
Implementation

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.

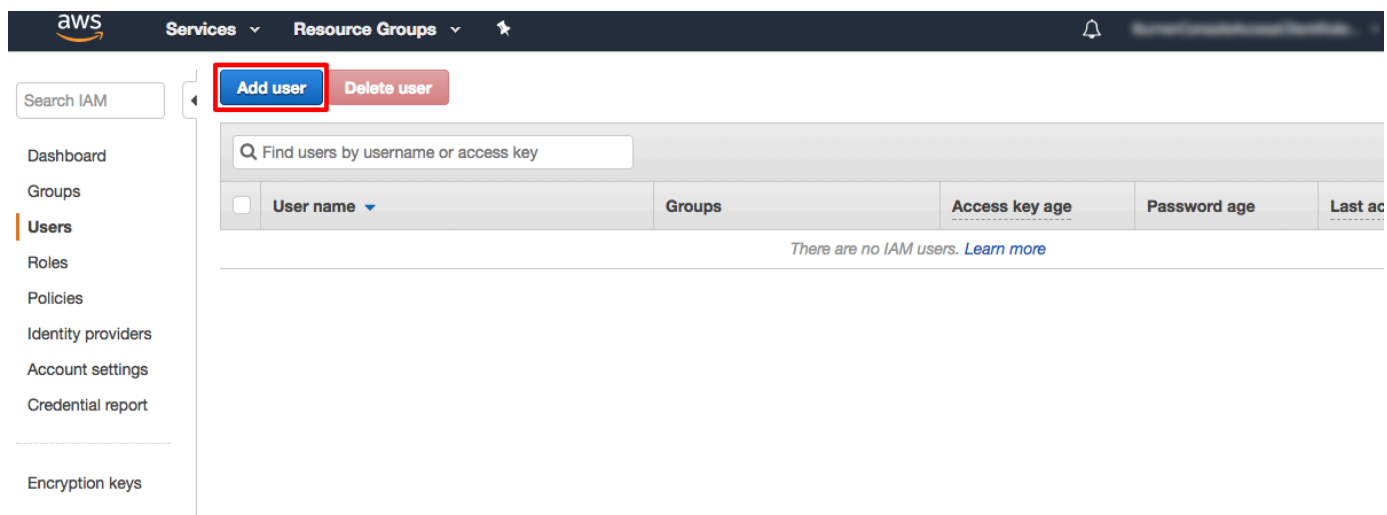
1. Open the IAM Console

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* eb-admin

+ 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 'Add user' wizard. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a search icon. The right side shows a notification bell, 'Global', and 'Support'. The wizard progress bar at the top indicates four steps: 1. Details, 2. Permissions (current), 3. Review, and 4. Complete.

The main heading is 'Add user'. Below it, the sub-heading is 'Set permissions for eb-admin'. Three options are presented in a row:

- Add user to group**: This option is highlighted with a red rectangular box. It features an icon of three people.
- Copy permissions from existing user**: Features an icon of one person pointing to another.
- Attach existing policies directly**: Features an icon of a document with lines of text.

Below these options is a light blue informational box with the title 'Get started with groups'. It contains the text: 'You haven't created any groups yet. Using groups is a best-practice way to manage users' permissions by job functions, AWS service access, or your custom permissions. Get started by creating a group. [Learn more](#)'. Inside this box, the 'Create group' button is highlighted with a red rectangular box.

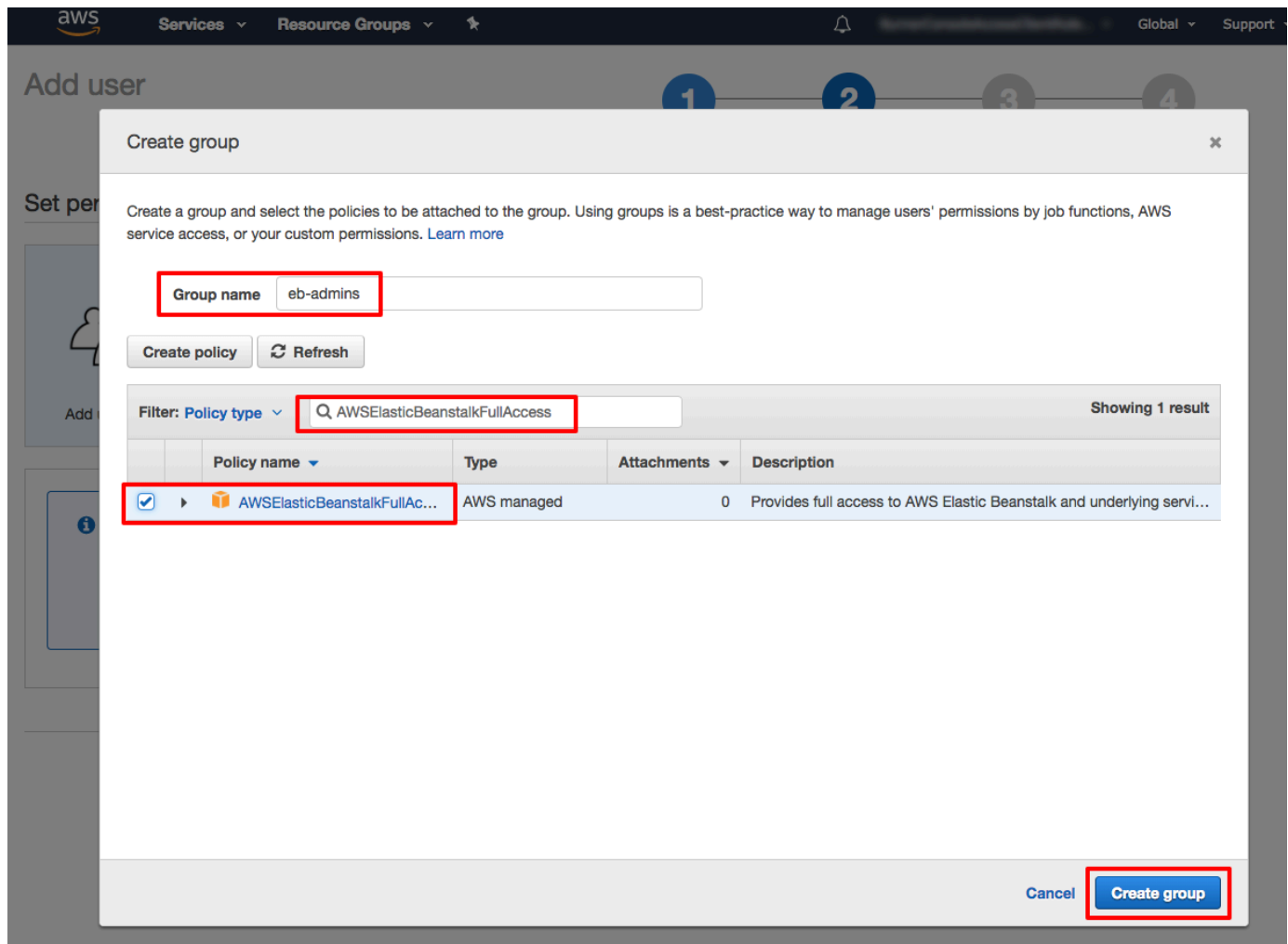
At the bottom right of the wizard, there are three buttons: 'Cancel', 'Previous', and 'Next: Review'.

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**.



6. Verify the policy is attached

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

Select **Next: Review**.

 Services ▾ Resource Groups ▾    Global ▾ Support

Add user


1
Details

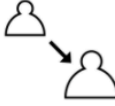
2
Permissions


3
Review

4
Complete

Set permissions for eb-admin



Add user to group


Copy permissions from existing user


Attach existing policies directly

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](#)

Create group

 Refresh

Showing 1 result

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

Cancel

Previous

Next: Review

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**.

Add user

1 Details 2 Permissions 3 Review 4 **Complete**

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>

Download .csv

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

Close

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:

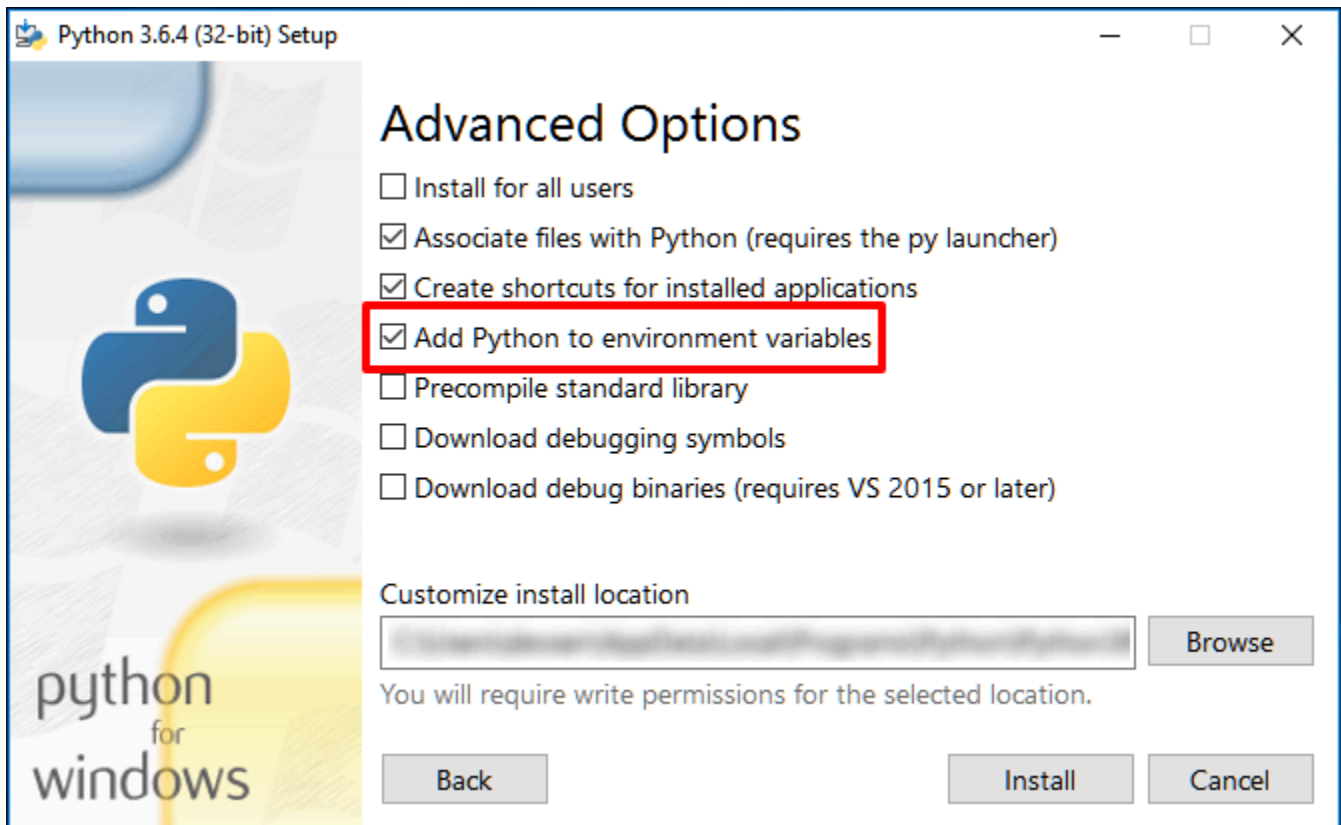
```
pip --version
```

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.