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Raspberry Pi

How to Install AWS-CLI on Raspberry Pi

3 months ago • by Hiba Shafqat

AWS-CLI is an integrated tool that offers a constant interface for engaging with all components of Amazon Web Services. It is one of the most effective technologies for automation and cloud computing. It can do a variety of tasks, including managing S3 object storage as well as EC2 compute instances. You can also use it to construct and administer services like Amazon Lambda functions. As a result, having the **AWS-CLI** installed on a Raspberry Pi can be a great asset for any developer or system administrator.

Users should follow this guide if they wish to install **AWS-CLI** on Raspberry Pi.

Install AWS-CLI on Raspberry Pi

There are two methods to install **AWS-CLI** on Raspberry Pi, which are as follows:

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- [Through Apt Command](#)
- [Through Pip](#)

Method 1: Through Apt Command

To install **AWS-CLI** through official Raspberry Pi repository, follow the below-given steps:

Step 1: Ensure that packages installed on the system are updated and this can do through following command:

```
sudo apt update
```

Step 2: Once the packages are installed, the **AWS-CLI** can be installed with the apt package manager through the following command:



```
sudo apt install awscli
```

```
pi@raspberrypi:~$ sudo apt install awscli
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfuse2 raspinfio
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  groff gsfonts imagemagick imagemagick-6-common imagemagick-6.q16 libheif1
  libjxr-tools libjxr0 liblqr-1-0 libmagickcore-6.q16-6
  libmagickcore-6.q16-6-extra libmagickwand-6.q16-6 libnetpbm10 libwmf0.2-7
  netpbm psutils python3-boto python3-jmespath python3-pyasn1 python3-rsa
  python3-s3transfer python3-yaml
Suggested packages:
  imagemagick-doc autotrace enscript gimp gnuplot grads graphviz hp2xx html2ps
  libwmf-bin mplayer povray radiance texlive-base-bin transfig ufw batch
  inkscape libwmf0.2-7-gtk
The following NEW packages will be installed:
  awscli groff gsfonts imagemagick imagemagick-6-common imagemagick-6.q16
  libheif1 libjxr-tools libjxr0 liblqr-1-0 libmagickcore-6.q16-6
  libmagickcore-6.q16-6-extra libmagickwand-6.q16-6 libnetpbm10 libwmf0.2-7
  netpbm psutils python3-boto python3-jmespath python3-pyasn1 python3-rsa
  python3-s3transfer python3-yaml
0 upgraded, 23 newly installed, 0 to remove and 0 not upgraded.
```



Step 3: Verify the **AWS-CLI** version with below-mentioned command once the installation is completed:

```
aws --version
```

```
pi@raspberrypi:~$ aws --version
aws-cli/1.19.1 Python/3.9.2 Linux/5.15.84-v7l+ botocore/1.20.0
pi@raspberrypi:~$
```

At this stage, you have successfully installed **AWS-CLI** on the Raspberry Pi system and you can start configuring it.

Method 2: Through Pip

```
sudo pip install awscli
```

```
pi@raspberrypi:~$ sudo pip install awscli
Looking in indexes: https://pypi.org/simple, https://www.piwheels.org/simple
Collecting awscli
  Downloading https://www.piwheels.org/simple/awscli/awscli-1.27.74-py3-none-any.whl (4.0 MB)
    |████████████████████| 4.0 MB 506 kB/s
Requirement already satisfied: colorama<0.4.5,>=0.2.5 in /usr/lib/python3/dist-packages (from awscli) (0.4.4)
Requirement already satisfied: docutils<0.17,>=0.10 in /usr/lib/python3/dist-packages (from awscli) (0.16)
Collecting s3transfer<0.7.0,>=0.6.0
  Downloading https://www.piwheels.org/simple/s3transfer/s3transfer-0.6.0-py3-none-any.whl (79 kB)
    |████████████████████| 79 kB 218 kB/s
Collecting botocore==1.29.74
  Downloading https://www.piwheels.org/simple/botocore/botocore-1.29.74-py3-none-any.whl (10.4 MB)
    |████████████████████| 10.4 MB 6.4 kB/s
Requirement already satisfied: rsa<4.8,>=3.1.2 in /usr/lib/python3/dist-packages (from awscli) (4.0)
Requirement already satisfied: PyYAML<5.5,>=3.10 in /usr/lib/python3/dist-packages (from awscli) (5.3.1)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /usr/lib/python3/d
```


How to Configure AWS-CLI from Raspberry Pi

Before using **AWS-CLI**, you must register an account [here](#). You will get the **Access Key**

While setting AWS-CLI on a Raspberry Pi, this information will be needed. Use “**json**” as the preferred output format since it is simpler to understand than plain text.

Execute this command on your Raspberry Pi after you have the above information.

```
aws configure
```



```
pi@raspberrypi:~ $ aws configure
AWS Access Key ID [None]: 
AWS Secret Access Key [None]: 
Default region name [None]: 
Default output format [None]: json
pi@raspberrypi:~ $
```

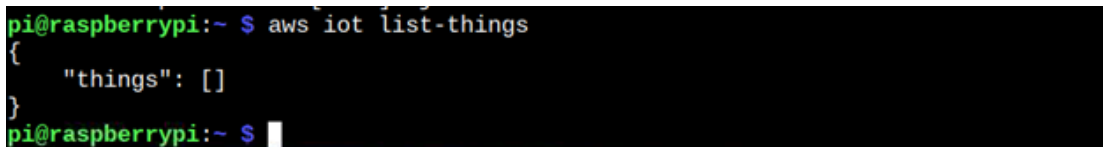
Write down the required information to complete the **ASW-CLI** configuration.

How to Test the Connections with AWS-CLI

Try to run any **AWS** list command to check the **CLI** connection. You may use the “**aws iot list-things**” command to get a list of all your IoT devices.

```
aws iot list-things
```

If you’ve set up any IoT Things on Amazon, you should see the list; otherwise, a **blank json things** list will appear if you haven’t created any IoT Things on AWS.



```
pi@raspberrypi:~ $ aws iot list-things
{
  "things": []
}
pi@raspberrypi:~ $
```

Execute the command that follows on a Raspberrv Pi to create a new IoT thing:

```
pi@raspberrypi:~ $ aws iot create-thing --thing-name "RaspberryPiThings"
{
  "thingName": "RaspberryPiThings",
  "thingArn": "arn:aws:iot:us-east-1:63070004720:thing/RaspberryPiThings",
  "thingId": "-63070004720-418f-8f2d-195e50c12815"
}
pi@raspberrypi:~ $
```

How to Remove AWS-CLI from Raspberry Pi

Use the following command to remove **AWS-CLI** from Raspberry Pi in case you don't need it on your system.

```
sudo apt remove awscli
```

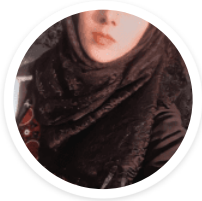
```
pi@raspberrypi:~ $ sudo apt remove awscli
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  libfuse2 python3-botocore python3-jmespath python3-pyasn1 python3-rsa
  python3-s3transfer python3-yaml raspinf
Use 'sudo apt autoremove' to remove them.
The following packages will be REMOVED:
  awscli
0 upgraded, 0 newly installed, 1 to remove and 0 not upgraded.
After this operation, 9,616 kB disk space will be freed.
Do you want to continue? [Y/n] y
(Reading database ... 190621 files and directories currently installed.)
Removing awscli (1.19.1-1) ...
pi@raspberrypi:~ $
```

Conclusion

The **AWS-CLI** on Raspberry Pi is a powerful tool for accessing and managing AWS services. The setup process is relatively simple, and the features are incredibly useful for automation and other tasks. You can install **AWS-CLI** either through the Raspberry Pi repository or through pip. After the installation, you can configure AWS on the terminal



ABOUT THE AUTHOR



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I am a Computer Science student and a committed technical writer by choice. It is a great pleasure to share my knowledge with the world in which I have academic expertise.

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