

EN-US ▾

# Install and Configure the AWS CLI

## Lab overview

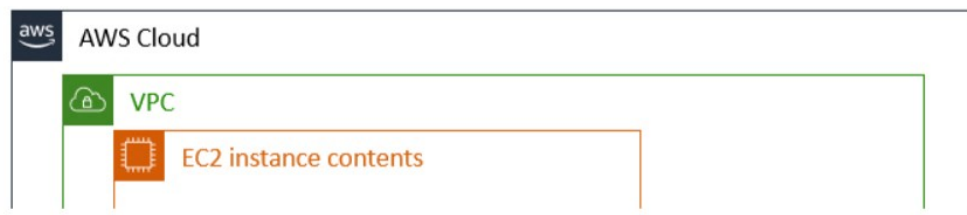
The AWS Command Line Interface (AWS CLI) is a command line tool that provides an interface for interacting with products and services from Amazon Web Services (AWS).

You can install the AWS CLI on your local machine or a virtual machine such as an Amazon Elastic Compute Cloud (Amazon EC2) instance.

In this activity, you install and configure the AWS CLI on a Red Hat Linux instance because this instance type does not have the AWS CLI pre-installed. Some instance types, such as Amazon Linux, do come pre-installed with the AWS CLI.

During this activity, you establish a Secure Shell (SSH) connection to the instance. You configure the installation with an access key that can connect to an AWS account. Finally, you practice using the AWS CLI to interact with AWS Identity and Access Management (IAM).

When you finish the activity, it will reflect the following diagram:



labsuser.ppk  
1,438 B • Done

Credentials

Cloud Access

AWS CLI:

Show

Cloud Labs

Remaining session time: 02:55:39(176 minutes)

Session started at: 2024-01-15T05:49:41-0800

Session to end at: 2024-01-15T08:49:41-0800

Accumulated lab time: 00:25:00 (25 minutes)

ips -- public:54.203.120.0, private:10.200.0.179

SSH key

Show

Download PEM

Download PPK

AWS SSO

Download URL

SecretKey	ecC90HAW6vaOUfzx0JC9GTZqqkhQgm/wlsS7a4Fb
LabRegion	us-west-2
PublicIP	54.203.120.0
AccessKey	AKIAZQ3DSABQ6MZKPWMZ

EC2 instance contents

Course Modules: A x Workbench - Voca x Console Home | C x +

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Details ▾ AWS Start Lab End Lab 2:51

EN-US ▾

```
curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip"
-o "awscliv2.zip"
```

25. To unzip the installer, run the following unzip command with the -u option. In this command, the unzip command prompts you to overwrite any existing files. To skip these prompts, the command includes the -u option.

```
unzip -u awscliv2.zip
```

26. To run the install program, run the following command. This sudo command grants write permissions to the directory. The installation command in the code snippet uses a file named install in the unzipped aws directory to install the AWS CLI.

```
sudo ./aws/install
```

27. To confirm the installation, run the following command:

```
aws --version
```

The following is an example of the output:

```
aws-cli/2.7.24 Python/3.8.8 Linux/4.14.133-113.105.amzn2.x86_64
botocore/2.4.5
```

**Note:** The version numbers that are installed change overtime and might not

```
root@ip-10-200-0-179:~
creating: aws/dist/docutils/writers/s5_html/themes/default/
creating: aws/dist/docutils/writers/s5_html/themes/medium-black/
creating: aws/dist/docutils/writers/s5_html/themes/medium-white/
creating: aws/dist/docutils/writers/s5_html/themes/small-black/
creating: aws/dist/docutils/writers/s5_html/themes/small-white/
inflating: aws/dist/docutils/writers/s5_html/themes/README.txt
inflating: aws/dist/docutils/writers/s5_html/themes/default/slides.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/opera.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/slides.js
inflating: aws/dist/docutils/writers/s5_html/themes/default/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/print.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/outline.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/s5-core.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/pretty.css
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inflating: aws/dist/docutils/writers/s5_html/themes/small-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-white/pretty.css
inflating: aws/dist/docutils/writers/latex2e/docutils.sty
inflating: aws/dist/docutils/writers/latex2e/default.tex
inflating: aws/dist/docutils/writers/latex2e/xelatex.tex
inflating: aws/dist/docutils/writers/latex2e/titlingpage.tex
inflating: aws/dist/docutils/writers/latex2e/titlepage.tex
inflating: aws/dist/docutils/writers/html5_polyglot/tuftig.css
inflating: aws/dist/docutils/writers/html5_polyglot/math.css
inflating: aws/dist/docutils/writers/html5_polyglot/plain.css
inflating: aws/dist/docutils/writers/html5_polyglot/template.txt
inflating: aws/dist/docutils/writers/html5_polyglot/responsive.css
inflating: aws/dist/docutils/writers/html4css1/html4css1.css
inflating: aws/dist/docutils/writers/html4css1/template.txt
inflating: aws/dist/docutils/writers/pep_html/template.txt
inflating: aws/dist/docutils/writers/pep_html/pep.css
inflating: aws/dist/docutils/writers/odf_odt/styles.odt
[root@ip-10-200-0-179 ~]# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
[root@ip-10-200-0-179 ~]# aws --version
aws-cli/1.18.147 Python/2.7.18 Linux/4.14.334-252.552.amzn2.x86_64 botocore/1.18.6
[root@ip-10-200-0-179 ~]#
```



Course Modules: A x Workbench - Voca x Dashboard | IAM x +

us-east-1.console.aws.amazon.com/iam/home?region=u... ☆

aws Services 🔍 ⓘ ⚙️ G ▼ voclabs/user2877785=GOUNDRA\_AMARN ▼

## Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access Analyzer
  - External access
  - Unused access
  - Analyzer settings
- Credential report

IAM > Dashboard

# IAM Dashboard

IAM resources

Resources in this AWS Account

User groups	Users	Roles	Policies
1	1	12	1

Identity providers

0

What's new

Updates for features in IAM

- [IAM Access Analyzer now simplifies inspecting unused access to guide you toward least privilege. 1 month ago](#)

CloudShell Feedback Privacy Terms Cookie preferences

https://us-east-1.console.aws.amazon.com/iam/home?region=us-west-2#/users or its affiliates.

```
root@ip-10-200-0-179:~
creating: aws/dist/docutils/writers/s5_html/themes/medium-black/
creating: aws/dist/docutils/writers/s5_html/themes/medium-white/
creating: aws/dist/docutils/writers/s5_html/themes/small-black/
creating: aws/dist/docutils/writers/s5_html/themes/small-white/
inflating: aws/dist/docutils/writers/s5_html/themes/README.txt
inflating: aws/dist/docutils/writers/s5_html/themes/default/slides.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/opera.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/slides.js
inflating: aws/dist/docutils/writers/s5_html/themes/default/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/print.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/outline.css
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inflating: aws/dist/docutils/writers/latex2e/xelatex.tex
inflating: aws/dist/docutils/writers/latex2e/titlingpage.tex
inflating: aws/dist/docutils/writers/latex2e/titlepage.tex
inflating: aws/dist/docutils/writers/html5_polyglot/tuftig.css
inflating: aws/dist/docutils/writers/html5_polyglot/math.css
inflating: aws/dist/docutils/writers/html5_polyglot/plain.css
inflating: aws/dist/docutils/writers/html5_polyglot/template.txt
inflating: aws/dist/docutils/writers/html5_polyglot/responsive.css
inflating: aws/dist/docutils/writers/html5_polyglot/minimal.css
inflating: aws/dist/docutils/writers/html4css1/html4css1.css
inflating: aws/dist/docutils/writers/html4css1/template.txt
inflating: aws/dist/docutils/writers/pep_html/template.txt
inflating: aws/dist/docutils/writers/pep_html/pep.css
inflating: aws/dist/docutils/writers/odf_odt/styles.odt
[root@ip-10-200-0-179 ~]# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
[root@ip-10-200-0-179 ~]# aws --version
aws-cli/1.18.147 Python/2.7.18 Linux/4.14.334-252.552.amzn2.x86_64 botocore/1.18.6
[root@ip-10-200-0-179 ~]# aws help
[root@ip-10-200-0-179 ~]#
```

Identity and Access Management (IAM)

Search IAM

Dashboard

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- Access Analyzer
  - External access
  - Unused access
  - Analyzer settings
- Credential report
- Organization activity

Summary

ARN  
arn:aws:iam::654654439521:user/awsstudent

Console access  
Disabled

Access key 1  
AKIAZQ3DSABQ6MZKPWMZ - Active  
Never used. Created today.

Created  
January 15, 2024, 19:19 (UTC+05:30)

Last console sign-in  
-

Access key 2  
AKIAZQ3DSABQ66HBAD42 - Active  
Never used. Created today.

Permissions Groups (1) Tags (1) Security credentials Access Advisor

Permissions policies (2)  
Permissions are defined by policies attached to the user directly or through groups.

Search

Filter by Type  
All types

< 1 > ⚙

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	lab_policy	Customer managed	Directly
<input type="checkbox"/>	ReadOnlyAccess	AWS managed - job function	Group QLReadOnly

Permissions boundary (not set)

### Identity and Access Management (IAM)

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Permissions are defined by policies attached to the user directly or through groups.

Filter by Type: All types

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	lab_policy	Customer managed	Directly
<div><b>lab_policy</b> <span>Copy JSON</span> <span>Edit</span></div> <pre>1  { 2    "Version": "2012-10-17", 3    "Statement": [ 4      { 5        "Action": [ 6          "cloudformation:List*", 7          "cloudformation:Describe*", 8          "cloudformation:Detect*", 9          "cloudformation:EstimateTemplateCost", 10         "cloudformation:Get*", 11         "cloudwatch:*", 12         "ec2:*Address*", 13         "ec2:*associate*", 14         "ec2:AttachVolume", 15         "ec2:BundleInstance", 16         "ec2:Cancel*", 17         "ec2:*Capacity*", 18         "ec2:CreateInstanceExportTask", 19         "ec2:CreateFlowLogs", 20         "ec2:*Credit*", </pre>			
<input type="checkbox"/>	ReadOnlyAccess	AWS managed - job function	Group <a href="#">QLReadOnly</a>



Identity and Access Management (IAM)

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Created  
January 15, 2024, 19:19 (UTC+05:30)

Last console sign-in  
-

Access key 2  
AKIAZQ3DSABQ66HBAD42 - Active  
Never used. Created today.

Permissions

Groups (1)

Tags (1)

Security credentials

Access Advisor

Console sign-in

Enable console access

Console sign-in link  
https://654654439521.signin.aws.amazon.com/console

Console password  
Not enabled

Multi-factor authentication (MFA) (0)

Remove

Resync

Assign MFA device

Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. Each user can have a maximum of 8 MFA devices assigned. [Learn more](#)

Device type	Identifier	Certifications	Created on
No MFA devices. Assign an MFA device to improve the security of your AWS environment			

Assign MFA device

Access keys (2)

Identity and Access Management (IAM)

Search IAM

Dashboard

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Assign MFA device

Access keys (2) Create access key

Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. [Learn more](#)

<b>AKIAZQ3DSABQ6MZKPWMZ</b>	<div>Actions</div>
Description	Status
-	Active
Last used	Created
None	12 minutes ago
Last used region	Last used service
N/A	N/A

<b>AKIAZQ3DSABQ66HBAD42</b>	<div>Actions</div>
Description	Status
-	Active
Last used	Created
None	12 minutes ago



Course Modules: A

Workbench - Voca

awsstudent | IAM

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DetailsAWSStart LabEnd Lab2:45

EN-US

Credentials

Cloud Access

AWS CLI: Show

Cloud Labs

Remaining session time: 02:45:17 (166 minutes)

Session started at: 2024-01-15T05:49:41-0800

Session to end at: 2024-01-15T08:49:41-0800

Accumulated lab time: 00:35:00 (35 minutes)

ips -- public:54.203.120.0, private:10.200.0.179

SSH key Show Download PEM Download PPK

AWS SSO Download URL

SecretKey	ecC90HAW6vaOUfzx0JC9GTZqqkhQgm/wlsS7a4Fb
LabRegion	us-west-2
PublicIP	54.203.120.0
AccessKey	AKIAZQ3DSABQ6MZKPWMZ

command:

aws iam list-users

```
root@ip-10-200-0-179:~
inflating: aws/dist/docutils/writers/s5_html/themes/default/slides.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/opera.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/slides.js
inflating: aws/dist/docutils/writers/s5_html/themes/default/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/print.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/outline.css
inflating: aws/dist/docutils/writers/s5_html/themes/default/s5-core.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/framing.css
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inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/small-white/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/small-white/pretty.css
inflating: aws/dist/docutils/writers/latex2e/docutils.sty
inflating: aws/dist/docutils/writers/latex2e/default.tex
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inflating: aws/dist/docutils/writers/latex2e/titlingpage.tex
inflating: aws/dist/docutils/writers/latex2e/titlepage.tex
inflating: aws/dist/docutils/writers/html5_polyglot/tuftig.css
inflating: aws/dist/docutils/writers/html5_polyglot/math.css
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inflating: aws/dist/docutils/writers/html5_polyglot/template.txt
inflating: aws/dist/docutils/writers/html5_polyglot/responsive.css
inflating: aws/dist/docutils/writers/html5_polyglot/minimal.css
inflating: aws/dist/docutils/writers/html4css1/html4css1.css
inflating: aws/dist/docutils/writers/html4css1/template.txt
inflating: aws/dist/docutils/writers/pep_html/template.txt
inflating: aws/dist/docutils/writers/pep_html/pep.css
inflating: aws/dist/docutils/writers/odf_odt/styles.odt
[root@ip-10-200-0-179 ~]# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
[root@ip-10-200-0-179 ~]# aws --version
aws-cli/1.18.147 Python/2.7.18 Linux/4.14.334-252.552.amzn2.x86_64 botocore/1.18.6
[root@ip-10-200-0-179 ~]# aws help
[root@ip-10-200-0-179 ~]# aws configure
AWS Access Key ID [None]: AKIAZQ3DSABQ6MZKPWMZ
AWS Secret Access Key [None]: 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
Default region name [None]: us-west-2
Default output format [None]: json
[root@ip-10-200-0-179 ~]#
```

Course Modules: A x

Workbench - Voca x

awsstudent | IAM x

+

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- **Default region name:** Enter `us-west-2`
- **Default output format:** Enter `json`

## Task 5: Observe IAM configuration details by using the AWS CLI

In this task, you observe the IAM configuration details for the EC2 instance using the AWS CLI.

32. In the terminal window, test the IAM configuration by running the following command:

```
aws iam list-users
```

A successful test shows a JSON response that includes a list of IAM users in the account.

## Activity 1 challenge

Use the AWS CLI Command Reference documentation and AWS CLI to download the lab\_policy document in a JSON-formatted IAM policy document. This is the same document that is in the AWS Management Console.

Avoid the temptation to use the AWS Management Console.

**Note:** If permitted, work in a group to complete this challenge.

```
root@ip-10-200-0-179:~
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/small-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/big-black/pretty.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/_base_
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/framing.css
inflating: aws/dist/docutils/writers/s5_html/themes/medium-black/pretty.css
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inflating: aws/dist/docutils/writers/s5_html/themes/small-white/pretty.css
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inflating: aws/dist/docutils/writers/latex2e/titlingpage.tex
inflating: aws/dist/docutils/writers/latex2e/titlepage.tex
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inflating: aws/dist/docutils/writers/html5_polyglot/math.css
inflating: aws/dist/docutils/writers/html5_polyglot/plain.css
inflating: aws/dist/docutils/writers/html5_polyglot/template.txt
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inflating: aws/dist/docutils/writers/html4css1/html4css1.css
inflating: aws/dist/docutils/writers/html4css1/template.txt
inflating: aws/dist/docutils/writers/pep_html/template.txt
inflating: aws/dist/docutils/writers/pep_html/pep.css
inflating: aws/dist/docutils/writers/odf_odt/styles.odt
[root@ip-10-200-0-179 ~]# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
[root@ip-10-200-0-179 ~]# aws --version
aws-cli/1.18.147 Python/2.7.18 Linux/4.14.334-252.552.amzn2.x86_64 botocore/1.18.6
[root@ip-10-200-0-179 ~]# aws help
[root@ip-10-200-0-179 ~]# aws configure
AWS Access Key ID [None]: AKIAZQ3DSABQ6M2KPFWMZ
AWS Secret Access Key [None]: ecC9OHAW6vaOUfzx0JC9GTZqqkhQgm/wlsS7a4Fb
Default region name [None]: us-west-2
Default output format [None]: json
[root@ip-10-200-0-179 ~]# aws iam list-users
{
  "Users": [
    {
      "UserName": "awsstudent",
      "Path": "/",
      "CreateDate": "2024-01-15T13:49:46Z",
      "UserId": "AIDAZQ3DSABQWPC3YEXVL",
      "Arn": "arn:aws:iam::654654439521:user/awsstudent"
    }
  ]
}
```



Course Modules: A x Workbench - Voca x awsstudent | IAM x +

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- To connect to the same AWS account, the AWS CLI needed an access key ID and secret access key. To sign in to the AWS Management Console, you need a user name and password.

## Solution

### Activity 1 challenge solution

In the **IAM AWS CLI Command Reference** [documentation page](#), the following command lists IAM policies and filters customer managed policies:

```
aws iam list-policies --scope Local
```

Next, use the version number **Arn** information and **DefaultVersionId** found inside the lab\_policy document to retrieve the JSON IAM policy. Use the > command to save the file.

```
aws iam get-policy-version --policy-arn
arn:aws:iam::038946776283:policy/lab_policy --version-id v1 >
lab_policy.json
```

## Conclusion

Congratulations! You now have successfully done the following:

- Installed and configured the AWS CLI
- Connected the AWS CLI to an AWS account

```
root@ip-10-200-0-179:~
[root@ip-10-200-0-179 ~]# aws help
[root@ip-10-200-0-179 ~]# aws configure
AWS Access Key ID [None]: AKIAZQ3DSABQ6MZKPFWMZ
AWS Secret Access Key [None]: ecC9OHAW6vaOUfzx0JC9GTZqqkhQgm/wlss7a4Fb
Default region name [None]: us-west-2
Default output format [None]: json
[root@ip-10-200-0-179 ~]# aws iam list-users
{
  "Users": [
    {
      "UserName": "awsstudent",
      "Path": "/",
      "CreateDate": "2024-01-15T13:49:46Z",
      "UserId": "AIDAZQ3DSABQWPC3YEXVL",
      "Arn": "arn:aws:iam::654654439521:user/awsstudent"
    }
  ]
}
[root@ip-10-200-0-179 ~]# aws iam list-policies --scope Local
{
  "Policies": [
    {
      "PolicyName": "lab_policy",
      "PermissionsBoundaryUsageCount": 0,
      "CreateDate": "2024-01-15T13:50:23Z",
      "AttachmentCount": 1,
      "IsAttachable": true,
      "PolicyId": "ANPAZQ3DSABQ3QYMTKEGN",
      "DefaultVersionId": "v1",
      "Path": "/",
      "Arn": "arn:aws:iam::654654439521:policy/lab_policy",
      "UpdateDate": "2024-01-15T13:50:23Z"
    }
  ]
}
[root@ip-10-200-0-179 ~]# aws iam get-policy-version --policy-arn
Note: AWS CLI version 2, the latest major version of the AWS CLI, is now stable and recommend
ed for general use. For more information, see the AWS CLI version 2 installation instructions
at: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html

usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:

aws help
aws <command> help
aws <command> <subcommand> help
aws: error: argument --policy-arn: expected one argument
[root@ip-10-200-0-179 ~]#
```