# AMAZON WEB SERVICES CERTIFIED SOLUTION ARCHITECT ASSOCIATE

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# **AWS CLI**

(COMMAND LINE INTERFACE)



## **COMMAND LINE INTERFACE (CLI)**

- The AWS Command Line Interface (CLI) is a unified tool to manage your AWS services. With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts.
- The AWS CLI is an open-source tool that enables you to interact with AWS services using commands in your command-line shell.

## **AWS-SHELL:**

- **aws-shell** is a command-line shell program that provides convenience and productivity features to help both new and advanced users of the AWS Command Line Interface.
- Key features include the following.

## **Fuzzy auto-completion for**

- Commands (e.g. ec2, describe-instances, sqs, create-queue)
- Options (e.g. --instance-ids, --queue-url)
- Resource identifiers (e.g. Amazon EC2 instance IDs, Amazon SQS queue URLs, Amazon SNS topic names)

## **Dynamic in-line documentation**

Documentation for commands and options are displayed as you type

#### **Execution of OS shell commands**

 Use common OS commands such as cat, ls, and cp and pipe inputs and outputs without leaving the shell

## Export executed commands to a text editor

**LINUX SHELLS:** Use common shell programs such as **bash**, **zsh**, and **tcsh** to run commands in Linux or macOS.

**WINDOWS COMMAND LINE:** On Windows, run commands at the Windows command prompt or in PowerShell.

**REMOTELY:** Run commands on Amazon Elastic Compute Cloud (Amazon EC2) instances through a remote terminal program such as PuTTY or SSH, or with AWS Systems Manager.

#### THE FORMATTING STYLE FOR COMMAND OUTPUT:

- ison
- text
- table
- yaml
- yaml-stream

#### **SYNTAX:**

\$aws [options] <command> <subcommand> [parameters]

## **AWS CLI SUPPORTED OPERATING SYSTEMS:**

- WINDOWS
- LINUX
- MACOS

## **AWS CLI INSTALLATION ON WINDOWS**

## INSTALLATION REQUIREMENTS:

- A 64-bit version of Windows XP or later.
- Admin rights to install software

STEP1: Download and Install Python

https://www.python.org/downloads/windows/

STEP2: Download and run the AWS CLI MSI installer for Windows (64-bit) <a href="https://awscli.amazonaws.com/AWSCLIV2.msi">https://awscli.amazonaws.com/AWSCLIV2.msi</a>

**STEP3:** To confirm the installation, open a command prompt or PowerShell **aws** –**version** 

#### **CONFIGURATION:**

• The aws configure command is the fastest way to set up your AWS CLI installation.

\$aws configure

AWS Access Key ID [None]: AKIAIOSFODNN7EXAMPLE

AWS Secret Access Key [None]: wJalrXUtnFEMI/K7MDENG/bPx

**Default region name [None]:** us-east-1 **Default output format [None]:** json

## **AWS CLI INSTALLATION ON LINUX**

## **INSTALLATION REQUIREMENTS:**

- We support the AWS CLI on 64-bit versions of recent distributions of CentOS, Fedora, Ubuntu, Amazon Linux 1, Amazon Linux 2 and Linux ARM.
- Because AWS doesn't maintain third-party repositories, we can't guarantee that they contain the latest version of the AWS CLI.

**STEP1:** Use the CURL command to download zip file \$curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"

**STEP2:** Unzip the installer \$unzip awscliv2.zip

**STEP3:** Run the install program \$sudo ./aws/install

**STEP4:** Confirm the installation \$aws –version

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## **CONFIG AND CREDENTIALS FILE'S LOCATION:**

• The shared AWS config and credentials files are plaintext files that reside by default in a folder named .aws that is placed in the "home" folder on your computer.

\$cd ~/.aws

\$1s

\$cat config & \$cat credentials

#### **COMMAND COMPLETION:**

• The AWS CLI includes a bash-compatible command-completion feature that enables you to use the Tab key to complete a partially entered command. On most systems you need to configure this manually.

**STEP1:** Locate the AWS completer **\$which aws\_completer** 

**STEP2:** Identify your shell **\$echo \$SHELL** 

**STEP3:** Enable command completion: \$complete -C '/usr/local/bin/aws\_completer' aws

**STEP4: STEP4:** Verify command completion **\$aws sTAB** 

- You can get help on the command line to see the supported services,
   \$aws help
- the operations for a service,\$aws ec2 help
- The parameters for a service operation. \$aws ec2 describe-instances help
- To get a current region\$ aws configure get region
- To get aws regions
   \$aws ec2 describe-regions
   \$aws ec2 describe-regions –output=text
   \$aws ec2 describe-regions –output=table
- To display a key pair
   \$aws ec2 describe-key-pairs
   \$aws ec2 describe-key-pairs --key-name mykey

- Listing all user owned buckets **\$aws s3 ls**
- Listing all prefixes and objects in a bucket
   \$aws s3 ls s3://mybucket
- Recursively listing all prefixes and objects in a bucket \$aws s3 ls s3://mybucket --recursive
- Creating a new bucket
   \$aws s3 mb s3://mybucket
   \$aws s3 mb s3://mybucket --region us-west-1
- List Objects in a bucket
   \$aws s3api list-objects -bucket <bucket-name>
- Remove bucket
   \$aws s3 rb s3://mybucket
   \$aws s3 rb s3://mybucket --force