**Task: Install AWS CLI on Ubuntu and Verify Installation**

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This guide provides the steps to install the latest version of the AWS Command Line Interface (AWS CLI v2) on an Ubuntu operating system. The AWS CLI is a unified tool to manage your AWS services from the command line.

**1. Understanding the Process**

The installation involves three main steps: downloading the official installation package from AWS, unzipping it, and running the install script with administrative privileges. After installation, a simple command is used to verify that the CLI is working correctly.

**2. Step-by-Step Installation Guide**

**Step 1: Update Your System and Install Prerequisites** First, open your terminal and update your package list. Then, install curl and unzip, which are required to download and extract the installer.

Bash

sudo apt update

sudo apt install curl unzip -y

**Step 2: Download the AWS CLI Installer** Use the curl command to download the official AWS CLI v2 installer package for Linux x86\_64 systems. The -o flag specifies that the output should be saved to a file named awscliv2.zip.

Bash

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"

**Step 3: Unzip the Installer Package** Once the download is complete, use the unzip command to extract the contents of the awscliv2.zip file. This will create a directory named aws in your current location.

Bash

unzip awscliv2.zip

**Step 4: Run the Installation Script** Now, run the installation script located inside the newly created aws directory. You must use sudo to grant the necessary permissions for the script to install the software in system directories (like /usr/local/bin).

Bash

sudo ./aws/install

**Step 5: Verify the Installation** After the installer finishes, you can verify that the AWS CLI was installed correctly by checking its version. Run the following command in your terminal.

Bash

aws --version

If the installation was successful, the command will output the AWS CLI version, along with the versions of Python, Linux, and OpenSSL it's using. For example: aws-cli/2.13.27 Python/3.11.6 Linux/5.15.146.1-microsoft-standard-WSL2 botocore/1.31.69. Your version numbers may differ.

