

# AWS Sizing Script

## Overview

This document describes how to prepare for, and how to run the Prisma Cloud AWS licensing sizing script.

## Running the Script on Microsoft Windows

### Prerequisites

Follow the steps below to install prerequisite applications if you plan to run the script on a Windows system. Jump to the next section if you already have Linux, Python, jq and AWS CLI installed.

#### 1. Install, and enable the Windows Subsystem for Linux

- Navigate to “Windows Control Panel” - “Turn Windows Features on or off”
- Install the “Windows Subsystem for Linux” component

#### 2. Install Linux distribution on Windows

- Navigate to the “Microsoft Store”
- Search for Ubuntu, and Install the “Ubuntu 20.04 LTS” Linux distribution
- Important:** Click “launch” to finish the Ubuntu installation, and set a Linux username/password

#### 3. Install Python in your Linux distribution

- If the Ubuntu shell is not open already launch from the start menu
- Run the following commands to install Python
  - `sudo apt-get update -y`
  - `sudo apt-get install python3-pip -y`

#### 4. Install JQ and Unzip in your Linux distribution

- a. If the Ubuntu shell is not open already launch from the start menu
- b. Run the following command to install jq and unzip:
  - i. `sudo apt install jq -y`
  - ii. `sudo apt install unzip -y`

## **5. Install AWS Command Line Interface (CLI) in your Linux distribution**

- a. If the Ubuntu shell is not open already launch from the start menu
- b. Run the following to Install AWS CLI
  - i. `curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"`
  - ii. `unzip awscliv2.zip`
  - iii. `cd aws/`
  - iv. `sudo ./install`
- c. Run `aws --version` to verify install
- d. Refer to the [install guide](#) from AWS for updated information

## **Executing the Script**

Follow the steps below to run the Prisma Cloud licensing script on Windows.

### **1. Download the Prisma Cloud AWS licensing script**

- a. Create a “Prisma Cloud” folder on your local Windows drive (“c:\Prisma Cloud” in this example)
- b. Download the Prisma Cloud licensing script to the new Prisma Cloud folder
  - i. Click [here](#) to download the script (resource-count-aws.sh).

### **2. Execute the Prisma Cloud AWS licensing script in your Linux distribution**

- a. If the Ubuntu shell is not open already launch from the start menu
- b. Run “aws configure” command to connect to your AWS account
  - i. Provide AWS access key for the AWS account you want to analyze
  - ii. Provide AWS Secret Access key for the AWS account you want to analyze
  - iii. Set default region to none
  - iv. Set output format to none
- c. Run the following command to mount the local Windows c:\Prisma Cloud drive in Ubuntu
  - i. `cd /mnt/c/Prisma\ Cloud`

- d. Run the following command to start the Prisma Cloud AWS licensing script

- i. `./resource-count-aws.sh`

### 3. Share the results with your Palo Alto Networks Team

- a. Share the output from the licensing script with your Palo Alto Networks team.
- b. **Important:** Remember to run the above script for each AWS account in your environment (repeat step #2 for each AWS account), and share the results from each account.

```
bryan@DFWWIN014F5DW:/mnt/c/Prisma Cloud$ ./resource-count-aws.sh
Total regions: 16
Region=us-east-1 EC2 instance(s) in running state = 0
Region=us-east-2 EC2 instance(s) in running state = 0
Region=us-west-1 EC2 instance(s) in running state = 0
Region=us-west-2 EC2 instance(s) in running state = 0
Region=ap-south-1 EC2 instance(s) in running state = 0
Region=ap-northeast-1 EC2 instance(s) in running state = 0
Region=ap-northeast-2 EC2 instance(s) in running state = 0
Region=ap-southeast-1 EC2 instance(s) in running state = 0
Region=ap-southeast-2 EC2 instance(s) in running state = 0
Region=eu-north-1 EC2 instance(s) in running state = 0
Region=eu-central-1 EC2 instance(s) in running state = 0
Region=eu-west-1 EC2 instance(s) in running state = 0
Region=sa-east-1 EC2 instance(s) in running state = 0
Region=eu-west-2 EC2 instance(s) in running state = 0
Region=eu-west-3 EC2 instance(s) in running state = 0
Region=ca-central-1 EC2 instance(s) in running state = 0
Total count of ec2 instances across all regions: 0

Region=us-east-1 RDS instance(s) = 0
Region=us-east-2 RDS instance(s) = 0
Region=us-west-1 RDS instance(s) = 0
Region=us-west-2 RDS instance(s) = 0
Region=ap-south-1 RDS instance(s) = 0
Region=ap-northeast-1 RDS instance(s) = 0
Region=ap-northeast-2 RDS instance(s) = 0
Region=ap-southeast-1 RDS instance(s) = 0
Region=ap-southeast-2 RDS instance(s) = 0
Region=eu-north-1 RDS instance(s) = 0
Region=eu-central-1 RDS instance(s) = 0
Region=eu-west-1 RDS instance(s) = 0
Region=sa-east-1 RDS instance(s) = 0
Region=eu-west-2 RDS instance(s) = 0
Region=eu-west-3 RDS instance(s) = 0
Region=ca-central-1 RDS instance(s) = 0
Total count of RDS instances across all regions: 0

Region=us-east-1 ELBs= 0
Region=us-east-2 ELBs= 0
Region=us-west-1 ELBs= 0
Region=us-west-2 ELBs= 0
Region=ap-south-1 ELBs= 0
Region=ap-northeast-1 ELBs= 0
Region=ap-northeast-2 ELBs= 0
Region=ap-southeast-1 ELBs= 0
Region=ap-southeast-2 ELBs= 0
Region=eu-north-1 ELBs= 0
Region=eu-central-1 ELBs= 0
Region=eu-west-1 ELBs= 0
Region=sa-east-1 ELBs= 0
Region=eu-west-2 ELBs= 0
Region=eu-west-3 ELBs= 0
Region=ca-central-1 ELBs= 0
Total count of ELBs across all regions: 0
```

```
Region=us-east-1 NAT Gateway instances = 0
Region=us-east-2 NAT Gateway instances = 0
Region=us-west-1 NAT Gateway instances = 0
Region=us-west-2 NAT Gateway instances = 0
Region=ap-south-1 NAT Gateway instances = 0
Region=ap-northeast-1 NAT Gateway instances = 0
Region=ap-northeast-2 NAT Gateway instances = 0
Region=ap-southeast-1 NAT Gateway instances = 0
Region=ap-southeast-2 NAT Gateway instances = 0
Region=eu-north-1 NAT Gateway instances = 0
Region=eu-central-1 NAT Gateway instances = 0
Region=eu-west-1 NAT Gateway instances = 0
Region=sa-east-1 NAT Gateway instances = 0
Region=eu-west-2 NAT Gateway instances = 0
Region=eu-west-3 NAT Gateway instances = 0
Region=ca-central-1 NAT Gateway instances = 0
Total count of NAT gateways across all regions: 0

Region=us-east-1 Redshift instances = 0
Region=us-east-2 Redshift instances = 0
Region=us-west-1 Redshift instances = 0
Region=us-west-2 Redshift instances = 0
Region=ap-south-1 Redshift instances = 0
Region=ap-northeast-1 Redshift instances = 0
Region=ap-northeast-2 Redshift instances = 0
Region=ap-southeast-1 Redshift instances = 0
Region=ap-southeast-2 Redshift instances = 0
Region=eu-north-1 Redshift instances = 0
Region=eu-central-1 Redshift instances = 0
Region=eu-west-1 Redshift instances = 0
Region=sa-east-1 Redshift instances = 0
Region=eu-west-2 Redshift instances = 0
Region=eu-west-3 Redshift instances = 0
Region=ca-central-1 Redshift instances = 0
Total count of Redshift clusters across all regions: 0

Total count of ec2 instances across all regions: 0
Total count of RDS instances across all regions: 0
Total count of ELB (Classic) instances across all regions: 0
Total count of Redshift clusters across all regions: 0
Total count of NAT gateways across all regions: 0
Total billable resources:0
```

Figure: Sample output from the “resource-count-aws.sh” script

## Running the Script on Mac

### Prerequisites

Follow the steps below to install prerequisite applications if you plan to run the script on a Mac. Jump to the next section if you already have jq and AWS CLI installed on your Mac.

#### 1. Install JQ on your Mac computer

- a. Download and install Homebrew from the following location:
  - i. <https://brew.sh/>
- b. Start a terminal session
- c. Run the following command to install jq
  - i. `brew install jq`
- d. Additional details can be found here if needed
  - i. <https://stedolan.github.io/jq/download/>

#### 2. Install AWS Command Line Interface (CLI) on your Mac computer

- a. Start a terminal session
- b. Run the following command to install AWS CLI
  - i. `brew install awscli`
- c. Verify AWS CLI installation
  - i. `Run aws --version`
- d. Additional details can be found here if needed
  - i. <http://docs.aws.amazon.com/cli/latest/userguide/cli-install-macos.html>
  - ii. [http://docs.aws.amazon.com/cli/latest/userguide/cli-install-macos.html#awscli install-osx-path](http://docs.aws.amazon.com/cli/latest/userguide/cli-install-macos.html#awscli-install-osx-path)

## Executing the Script

### 1. Download the Prisma Cloud AWS licensing script

- a. Download the Prisma Cloud licensing script to your local drive (Downloads folder in this example).
  - i. Click [here](#) to download the script (resource-count-aws.sh).

### 2. Execute the Prisma Cloud AWS licensing script on your Mac

- a. Start a terminal session on Mac computer
- b. Run “aws configure” to connect to your AWS account
  - i. Provide AWS access key for the AWS account you want to analyze
  - ii. Provide AWS Secret Access key for the AWS account you want to analyze
  - iii. Set Default region to none
  - iv. Set output format to none
- c. Within the terminal, navigate to the directory with the resource-count-aws.sh script
- d. Run the following command to start the Prisma Cloud AWS licensing script:
  - i. `bash ./resource-count-aws.sh`

### 3. Share the results with your Palo Alto Networks Team

- a. Share the output from the licensing script with your Palo Alto Networks team.
- b. **Important:** Remember to run the above script for each AWS account in your environment (repeat step #2 for each AWS account), and share the results from each account.

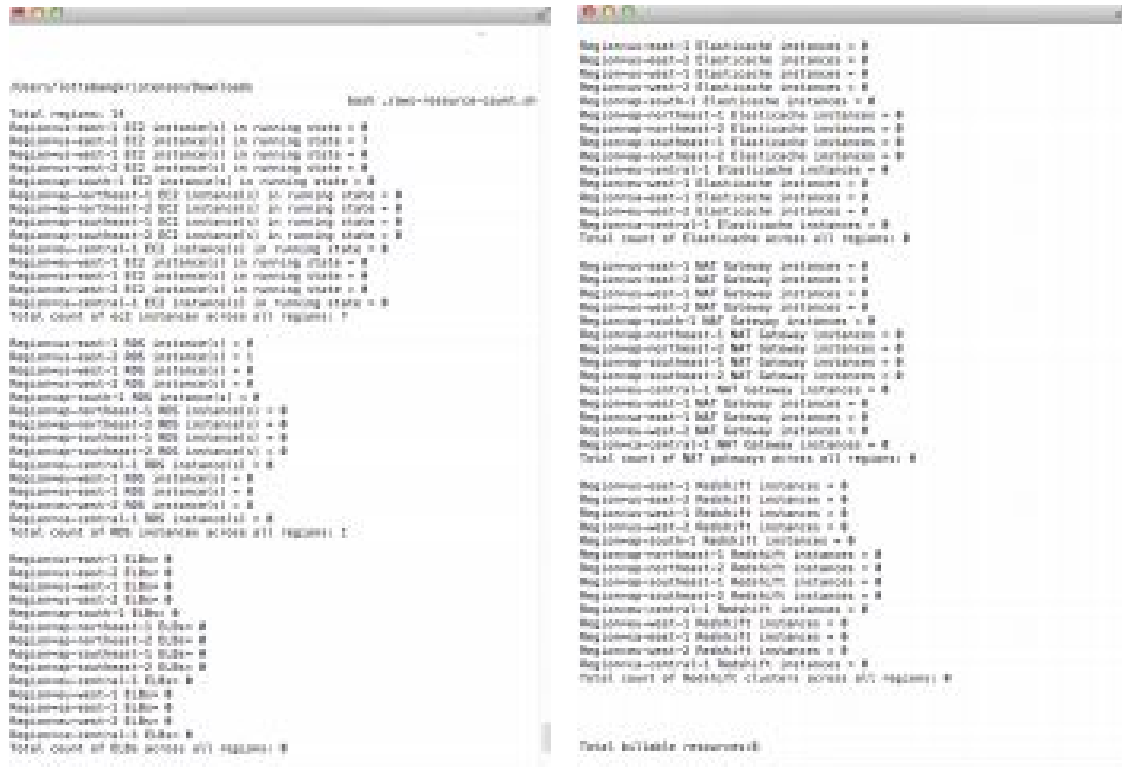


Figure: Sample output from the “resource-count-aws.sh” script