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**
    a. Navigate to “Windows Control Panel” - “Turn Windows Features on or off”
    b. Install the “Windows Subsystem for Linux” component
2. **Install Linux distribution on Windows**
    a. Navigate to the “Microsoft Store”
    b. Search for Ubuntu, and Install the “Ubuntu 20.04 LTS” Linux distribution
    c. **Important**: Click “launch” to finish the Ubuntu installation, and set a Linux username/password
3. **Install Python in your Linux distribution**
    a. If the Ubuntu shell is not open already launch from the start menu
    b. Run the following commands to install Python
        i. sudo apt-get update -y
        ii. 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.

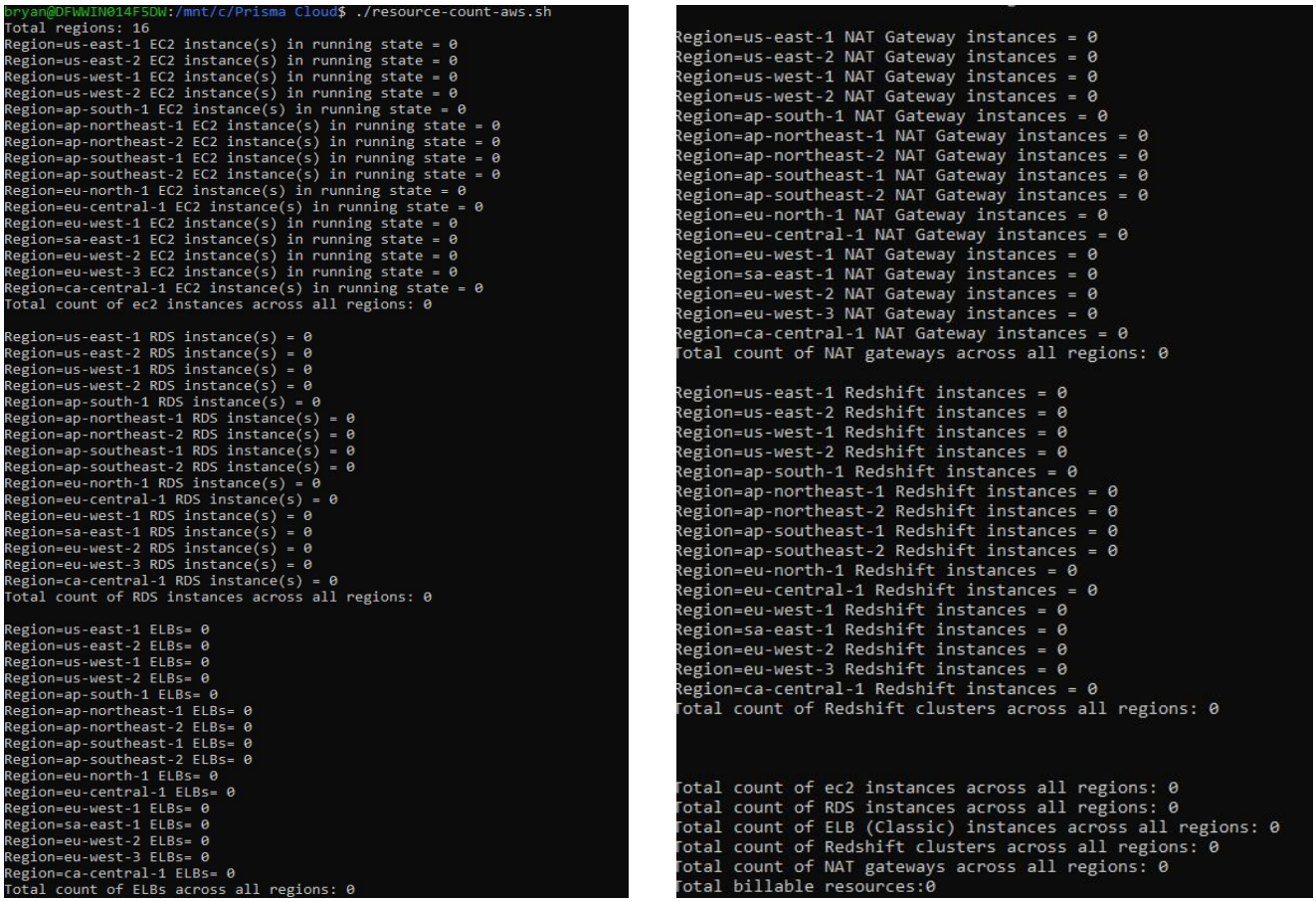

Figure: Sample output from the "resource-count-aws.sh" script

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

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.

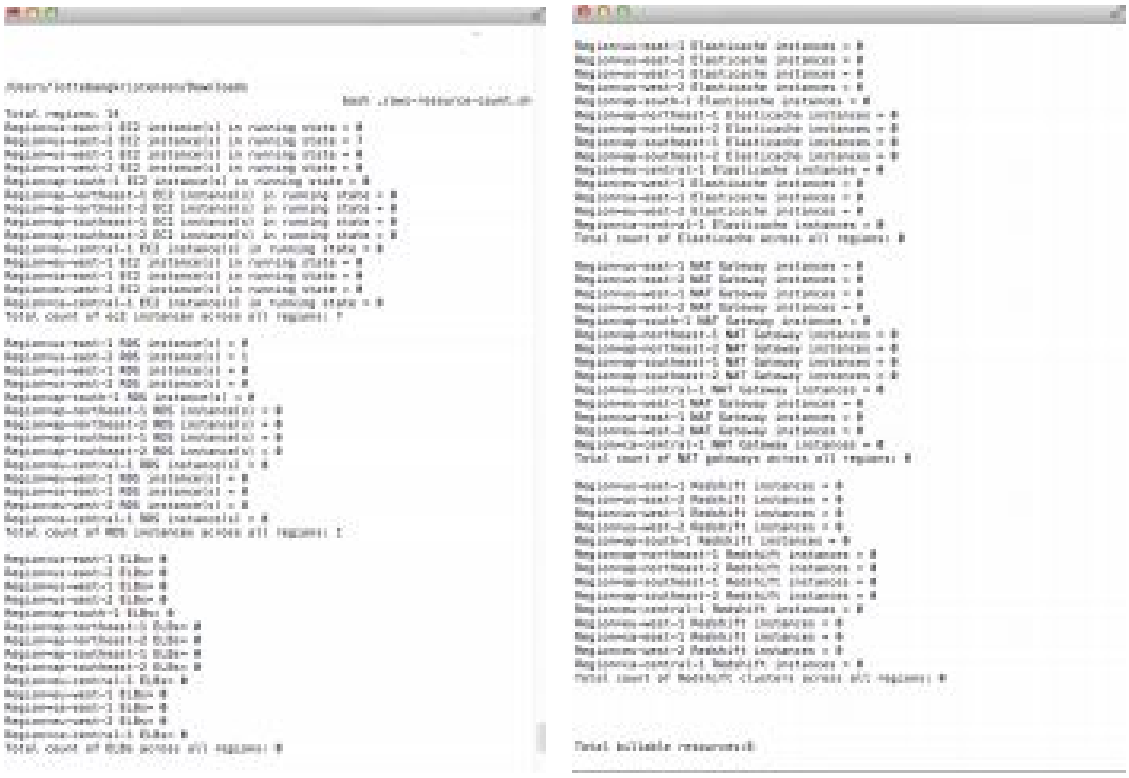

Figure: Sample output from the “resource-count-aws.sh” script