· when it has to be **right**

Leica Geosystems
TruView Global AWS Deployment Guide

Product   TruView Global 2.2

Date   31 August 2016

Contents

1. Introduction

Instructions below provide important information about the deploying TruView Global to Amazon Web Services (AWS).

> ! **These steps need to be carefully followed to deploy TruView Global to Amazon Web Services. This guide assumes you have some IT knowledge.**

This document describes in a step-by-step method, how you can utilize a pre-configured installation of TruView Global and "clone" that installation to your account. It assumes you are setting up new "Virtual Computers" in a fresh manner, starting from scratch.

We have created an AMI (Amazon Machine Image) that you can use as a pre-configured setup. The instructions we provide will walk you through the following steps.

1. Creating a new Amazon account
2. Configure a virtual computer
   a. We have provided specific choices of the size, and type of CPU, Memory, etc. that is sufficient for using TruView Global in nearly every case. If you have extreme needs, you can easily scale up this deployment if the need should arise in the future.
3. Once you have a virtual computer configured, you will copy/clone the AMI we have pre-configured that has a working TruView Global ready to go.
4. You'll need to also configure another virtual computer to run the CLM license server
   a. This second computer is a minimal resource computer and just runs a small licenses server (CLM) to allow the TruView Global software to be licensed.
   b. You will install the CLM license server software on that computer
5. Once you have these two computers properly configured your final step will be to install the TruView Global license EID provided as part of your purchase transaction and you will be up and running.

2. Creating an Amazon Web Service Account

Go to - **http://aws.amazon.com/**
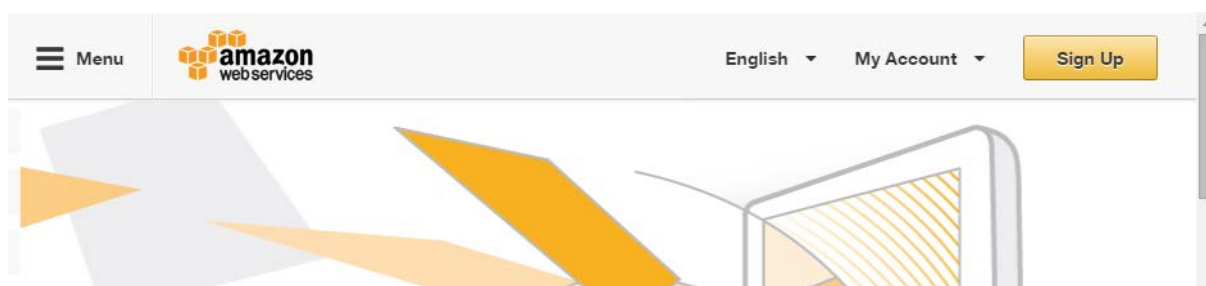
Click **Sign Up.**

Sign In or Create an AWS Account

What is your e-mail or mobile number?
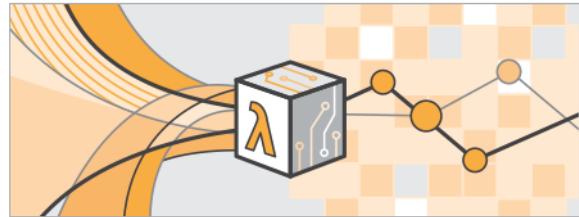
E-mail or mobile number:

◉ I am a new user.

○ I am a returning user and my password is:

Sign in using our secure server ▶

Forgot your password?
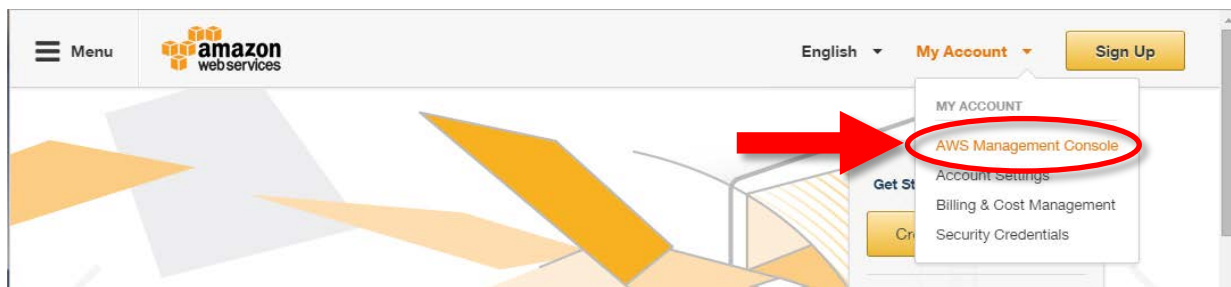
Run Your Code without Managing Servers
Try AWS Lambda
for Free Today

Learn more

You will be prompted to enter an email address, and check "**I am a new user**" if you do not have an AWS account set up. Follow the prompts to enter in the information needed.
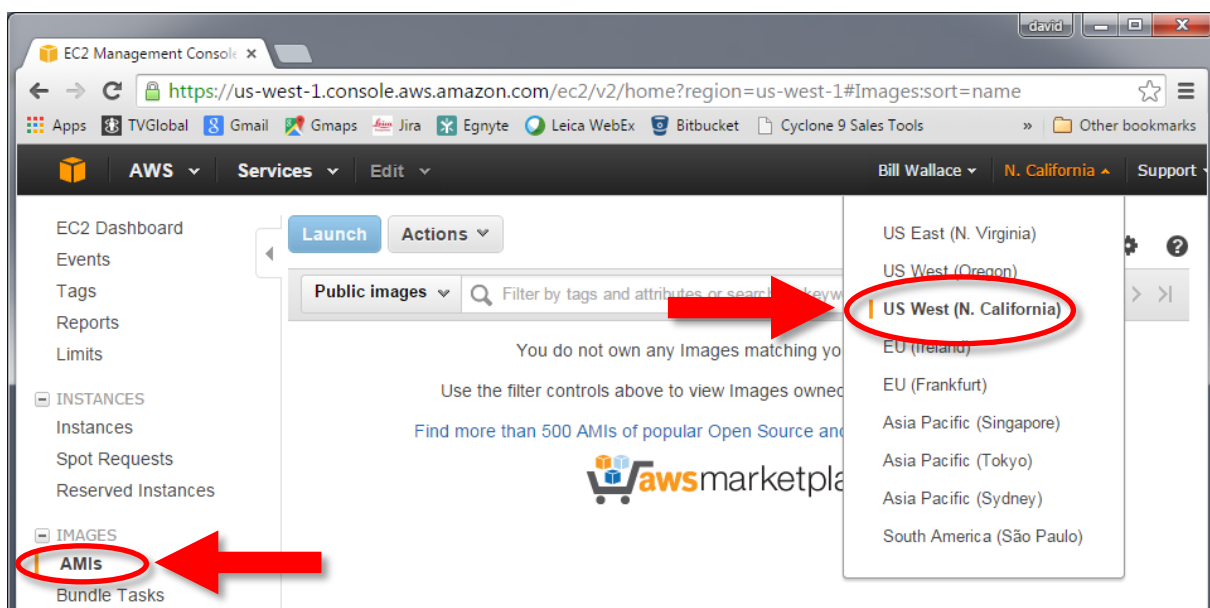

Once you have created an account, go to **My Account > AWS Management Console.** Enter your Username / Password, and sign in.

3. Creating a TruView Global Server on AWS
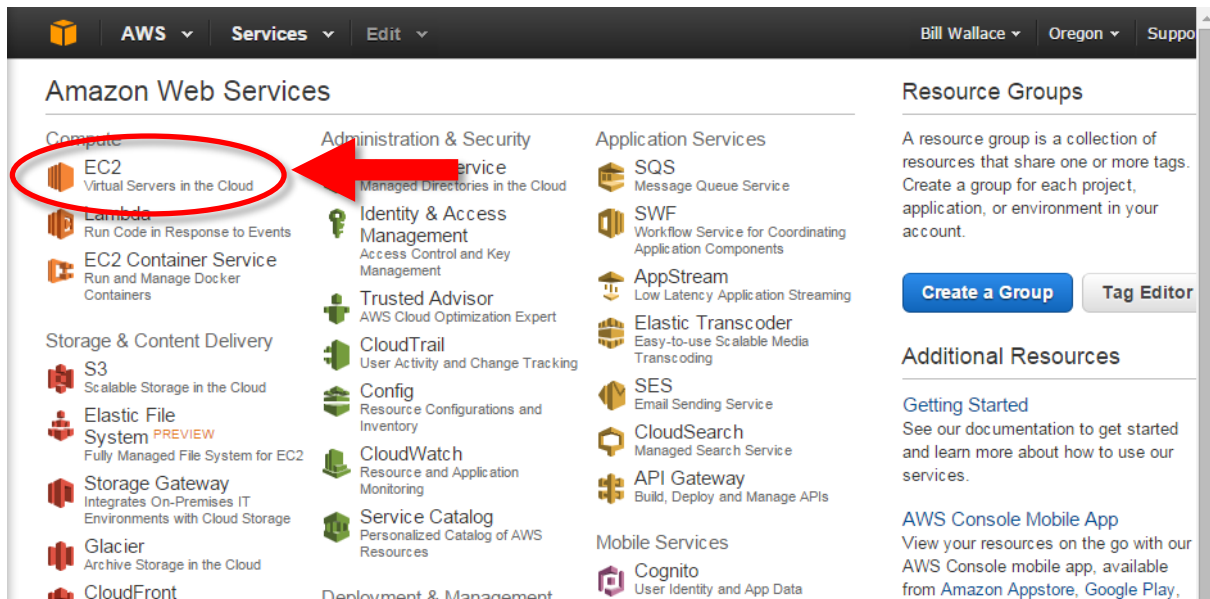
Click **EC2.**

Click **AMIs** and change to your region (for our example, we are using **US West (N.California)**).
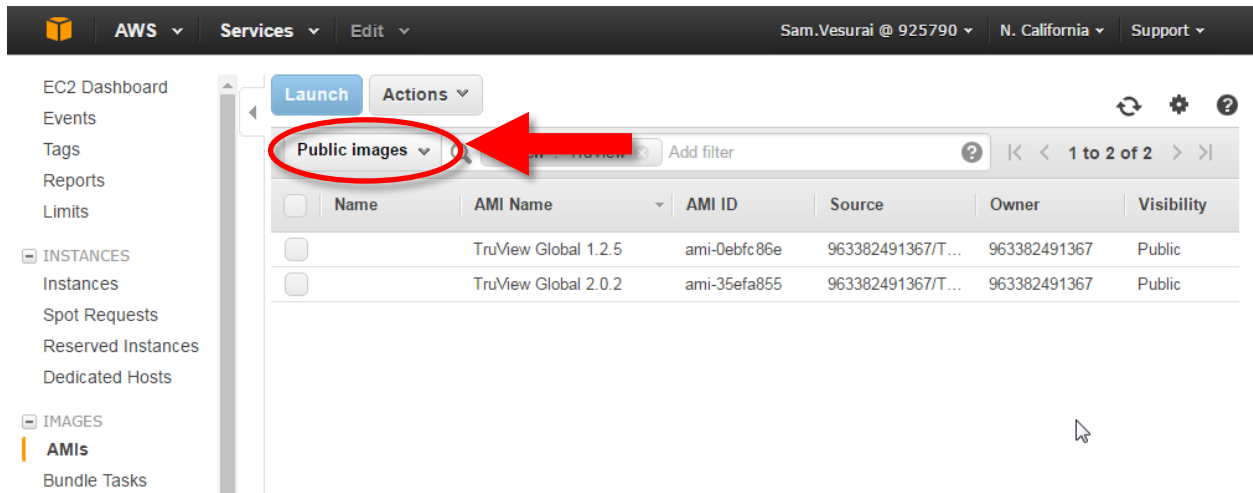
Make sure you are searching in **Public images**. Perform a search for "**TruView**". You will see a list of TruView Global AMIs.
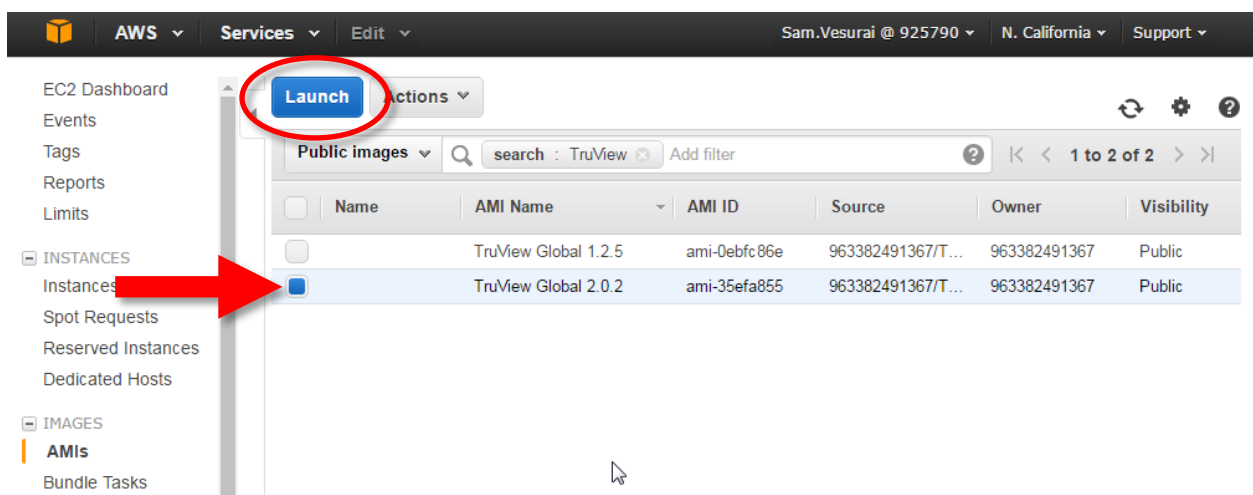
Select the version that you've purchased. Click **Launch.**

Select **General purpose "m4.large".**

Click **Next: Configure Instance Detail.**

Notes on Instance Type
You can initially choose the lower-priced "t2.medium" type to see how responsive TruView Global is for your workload. After a few weeks of use, if you determine that you prefer a more responsive server, you can always upgrade your server to a higher performance type.

You can use all default setting here, click **Next: Add Storage.**

Set the storage size to a **minimum of 300 GB.** Click **Next: Tag Instance.**

For storage pricing details, see https://aws.amazon.com/ebs/pricing under section "Amazon EBS General Purpose SSD (gp2)".

You do not need to add anything here, click **Next: Configure Security Group.**

Select "Create a new security group".

In the Security group name box, enter "tvg-security-group".

In the Description box, enter "security group for TruView Global".

Configure **6 rules** and be sure you have all the rules above. Type, Protocol, Port Range, and Source **MUST** match above Rules. After you have all the Rules created, click **Review and Launch.**

NOTE: If you have CLM already running on a server in your office, you can open the appropriate ports (27008 – 27010) to allow TruView Global running on AWS to connect to it. This is a more cost effective way, due to the fact that you will only be running one machine as opposed to two on AWS.

If you do plan to run CLM from a server machine in your office, you must add an additional rule: Custom UDP Rule, Port Range: 27008-27010, Source: Anywhere.

Click **Launch.**
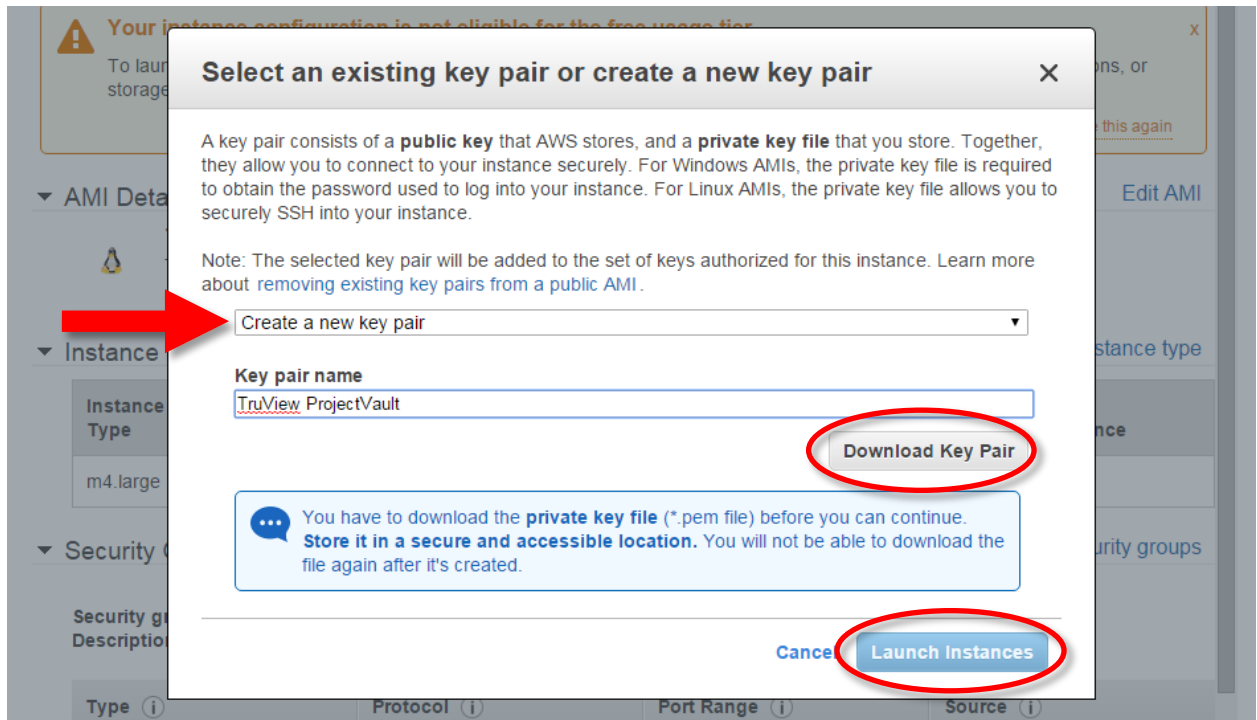
You will be prompted to select an existing key pair. Choose **Create a new key Pair.**

Enter Key pair name, such as TruView ProjectVault.

Download Key Pair.

Then you will be able to **Launch Instance.**

NOTE: keep the downloaded key pair file in a secure location. This is the only copy you have. You will not be able to download this file from Amazon again.

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www.leica-geosystems.com

You can check the status of your server by clicking **View Instances.**

Obtaining a Public IP Address for Your TruView Global Server
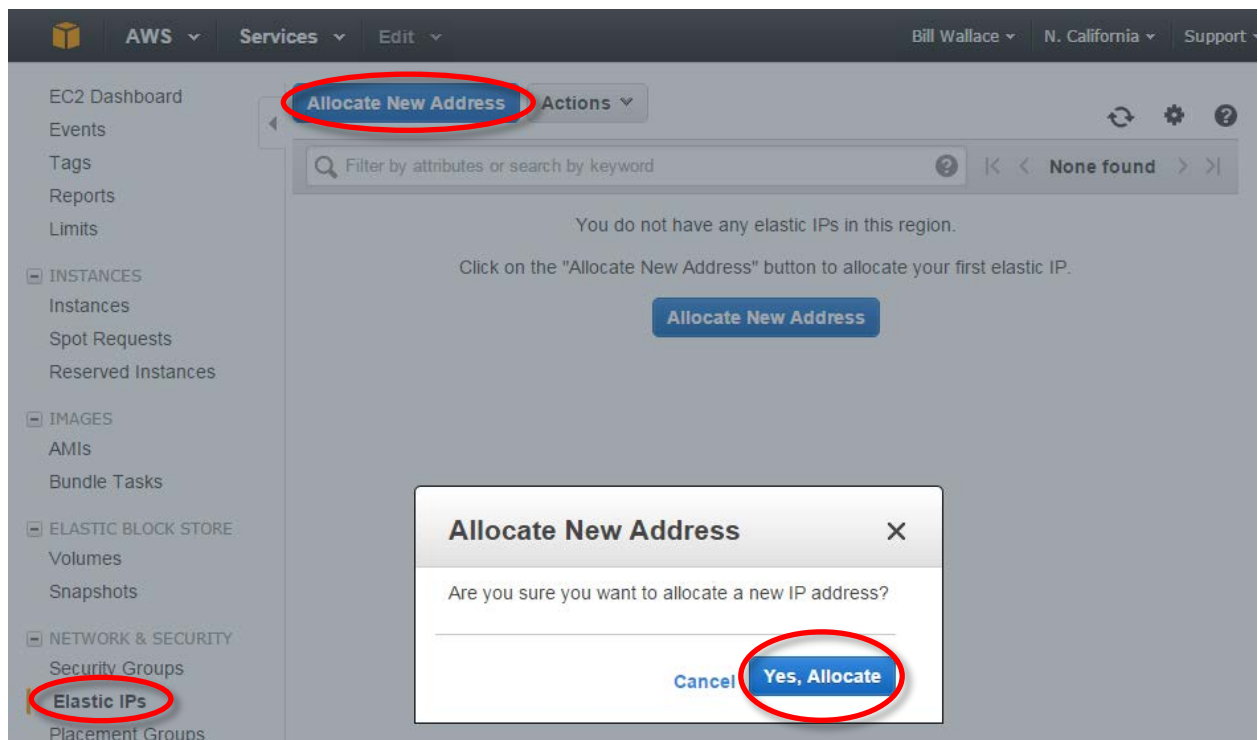
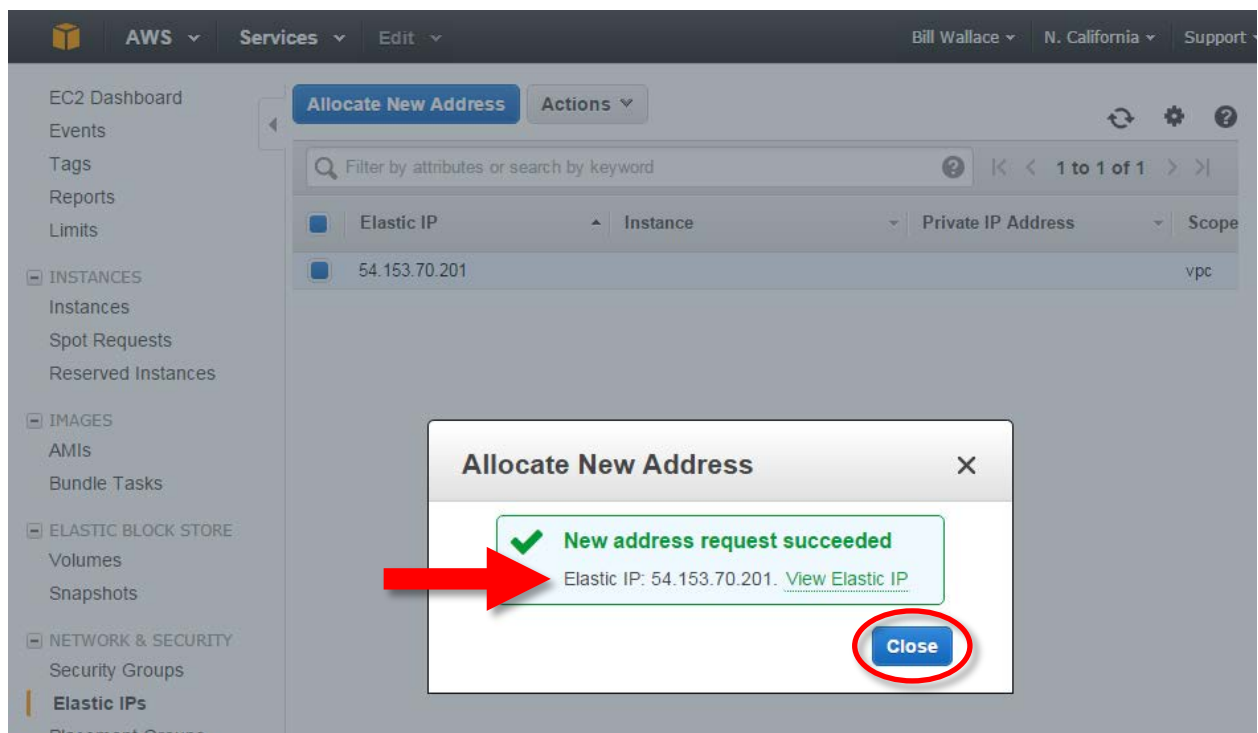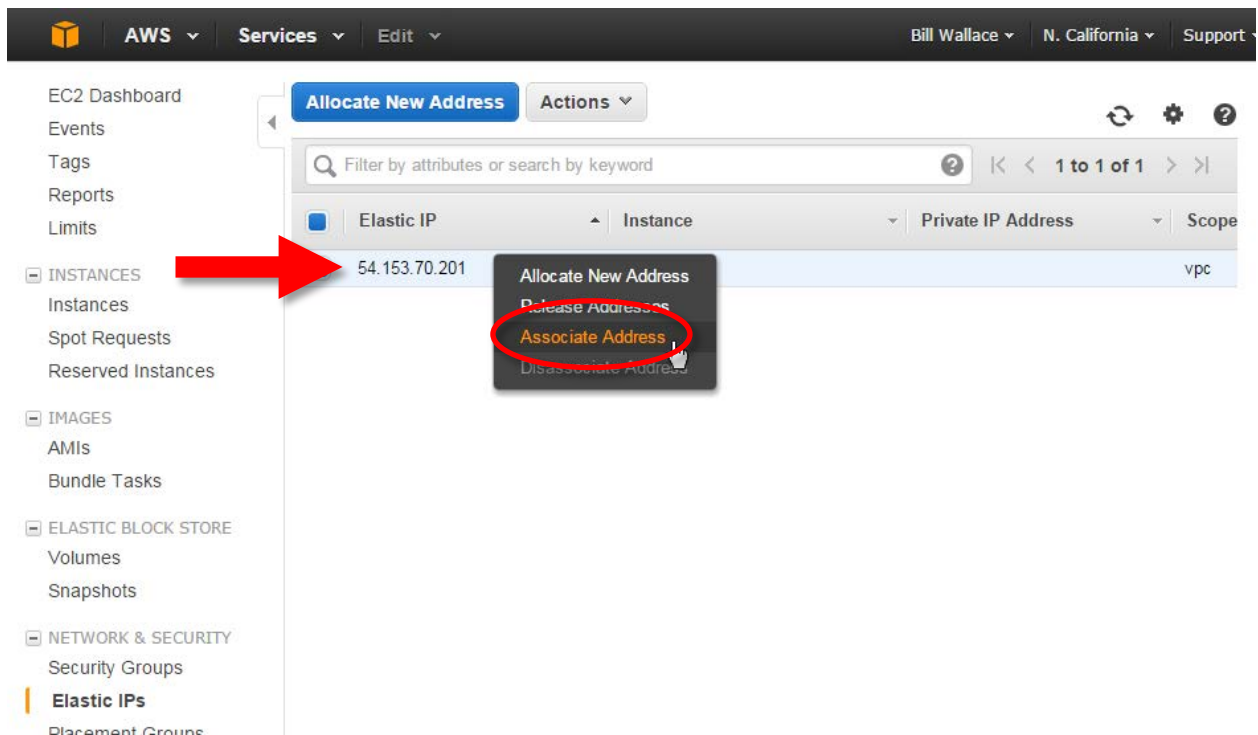Go to **Elastic IPs.**
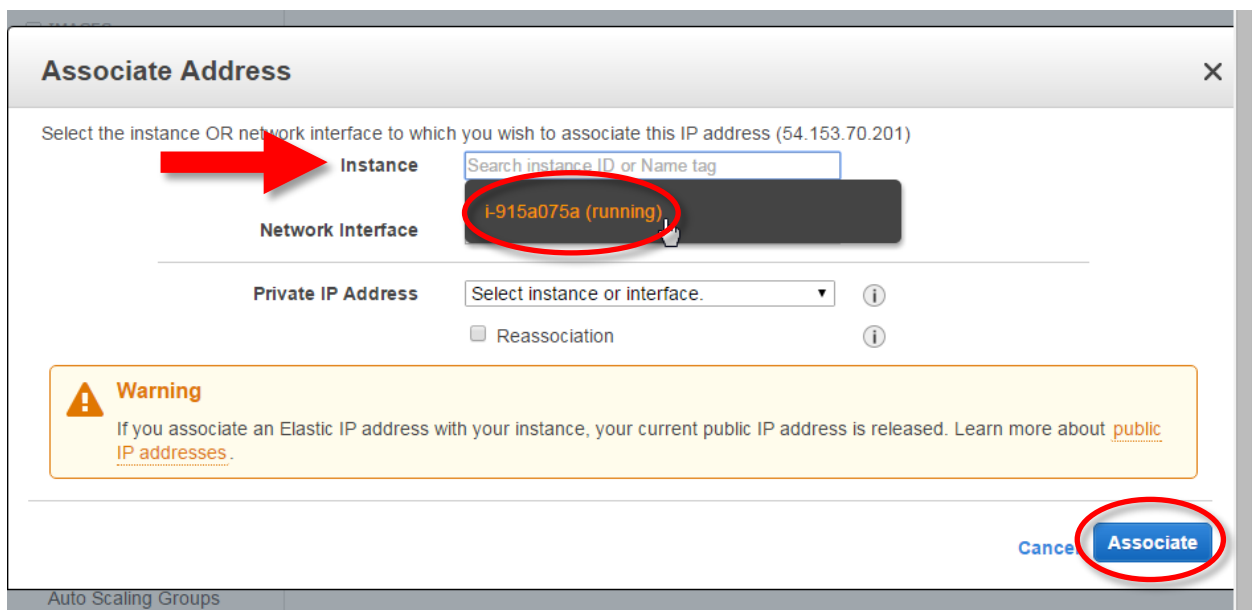Click **Allocate New Address.**
Click **Yes, Allocate** in the dialog.

New Address will be allocated, click **Close**

Right Click on the Address that was just created, and click **Associate Address.**


Click in the **Instance** box, and you should see the one instance, or VM that was just created.
Select that Instance/VM and click **Associate.**
Your TruView Global ProjectVault is now running.
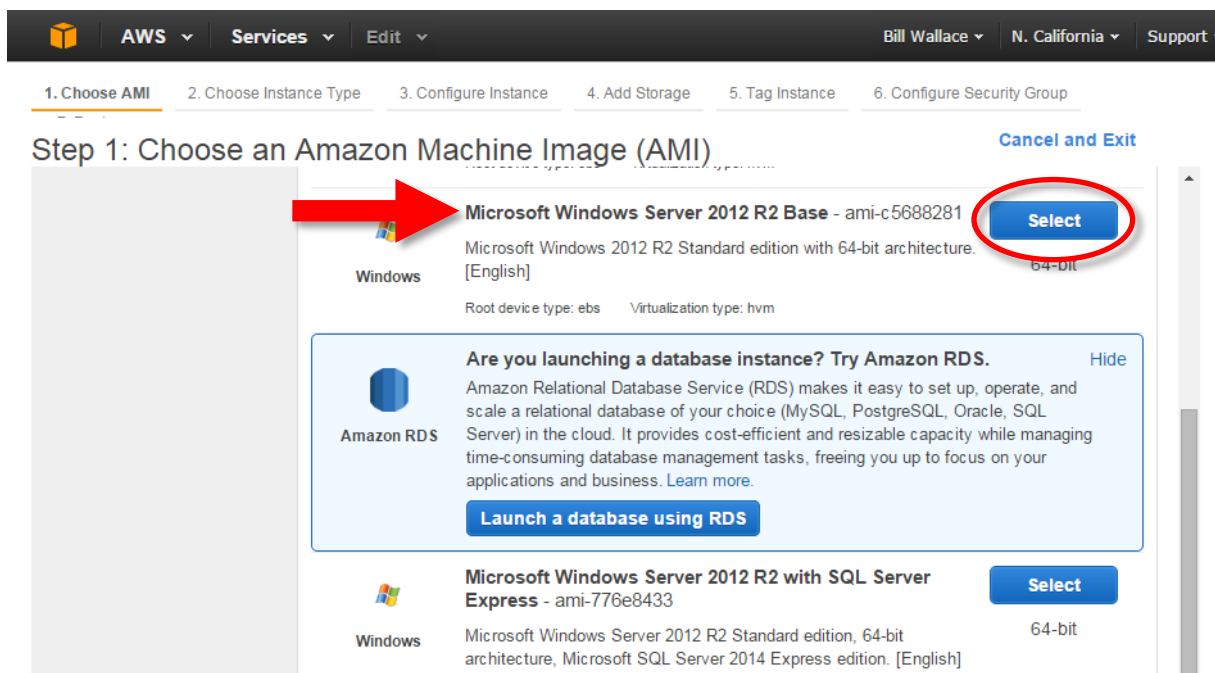
4. Creating a CLM License Server on AWS

The license manager software requires a Windows machine to license TruView Global. This next section creates a Windows server on AWS, giving the ability to activate your TruView Global EIDs, and connect to your TruView Server server that you created in a previous section.

NOTE: If you have CLM already running on a server machine in your office, you can open the appropriate ports (27008 – 27010) to allow TVG to connect to it. This is a more cost effective way, due to the fact that you will only be running one machine opposed to two on AWS and you can SKIP steps 4 & 5.
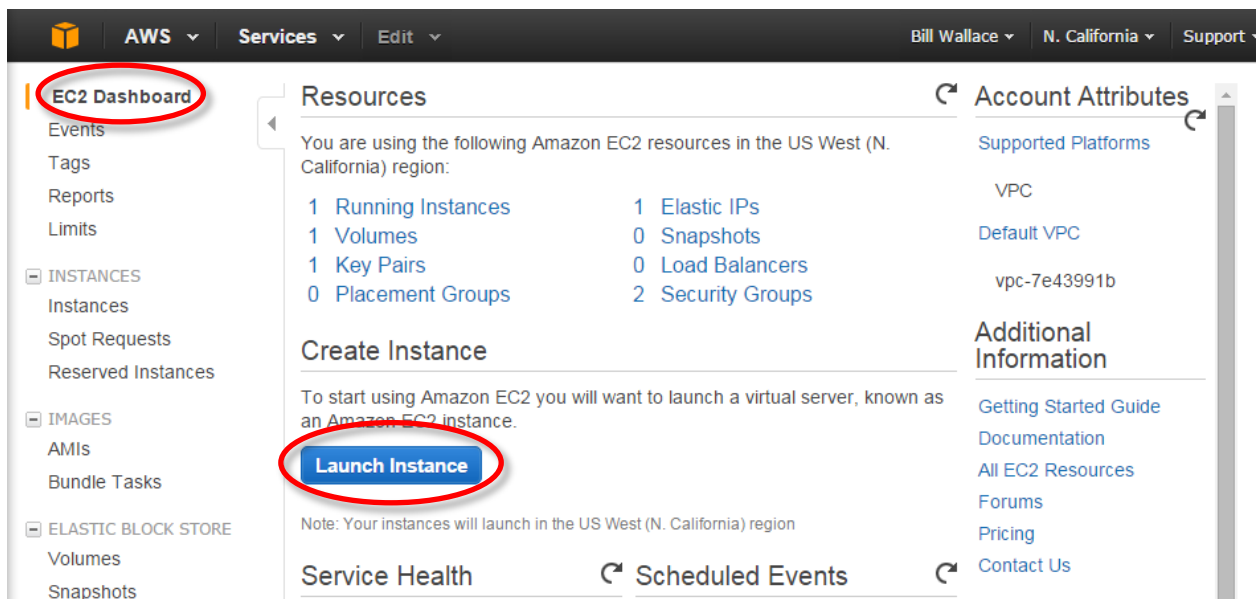
Go to **EC2 Dashboard** and Click **Launch Instance.**

Select **Microsoft Windows Server 2012 R2 Base.**

Select **General purpose t2 micro.**
Click **Next: Configure Instance Details.**

You can use all **default** setting here, click **Next: Add Storage.**

CLM doesn't require a large amount of storage. Set the storage size to **35GB.**
Click **Next: Tag Instance.**

You do not need to configure anything here, click **Next: Configure Security Group.**
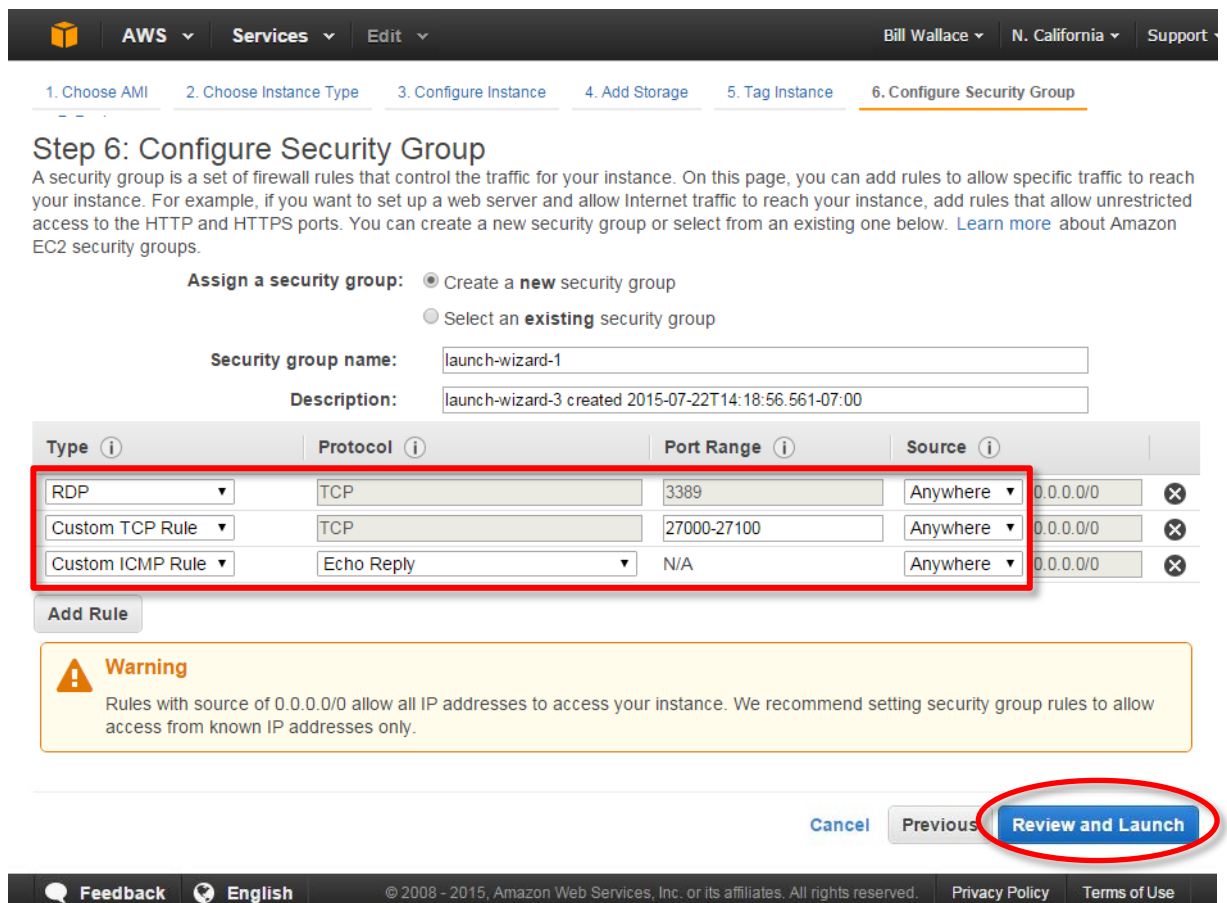
Add Rules and be sure you have all the Rules above. Type, Protocol, Port Range, and Source **MUST** match above Rules.

After you have all the Rules created, click **Review and Launch.**

Click **Launch.**
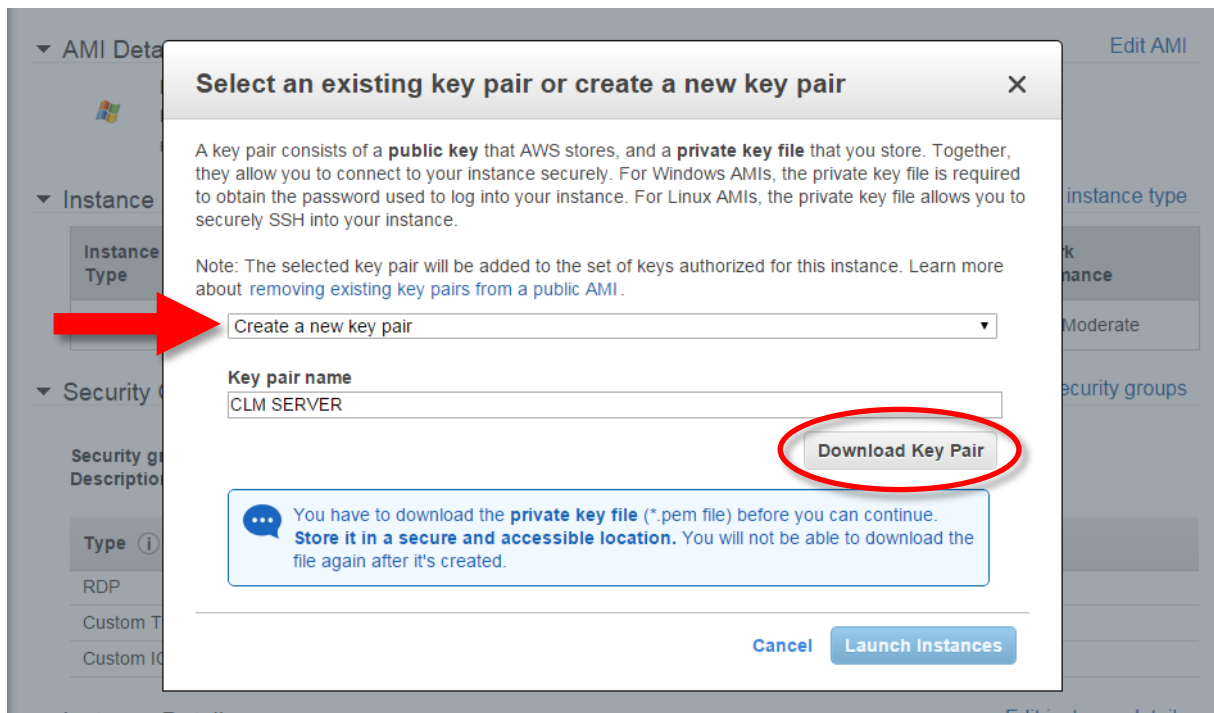
You will be prompted to select an existing key pair. Choose **Create a new key Pair.**

Enter Key pair name, such as CLM SERVER.

Click **Download Key Pair.**

NOTE: keep the downloaded key pair file in a secure location. This is the only copy you have. You will not be able to download this file from Amazon again.

Now you will be able to **Launch Instances.**

Take note of the Instance name. Click **View Instances** to see the status of your CLM server.
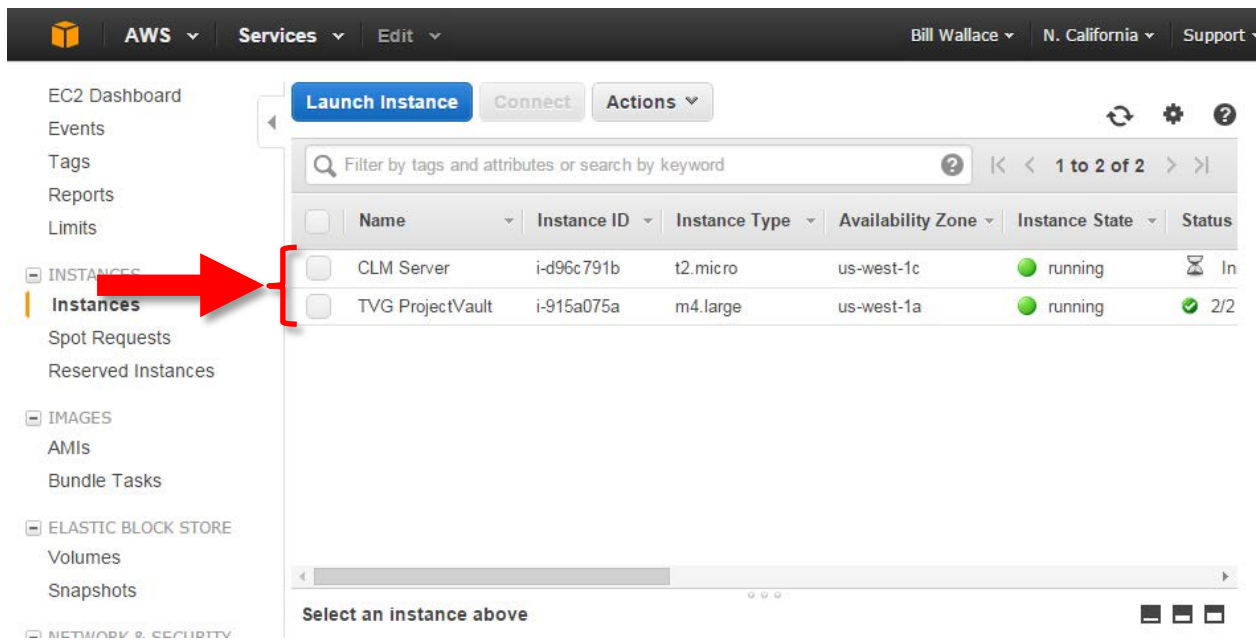
You should see both instances running.

Name each instance for ease of use, cross reference the name that was just noted. That will be CLM Server, and the other (m4.large) will be TVG ProjectVault.
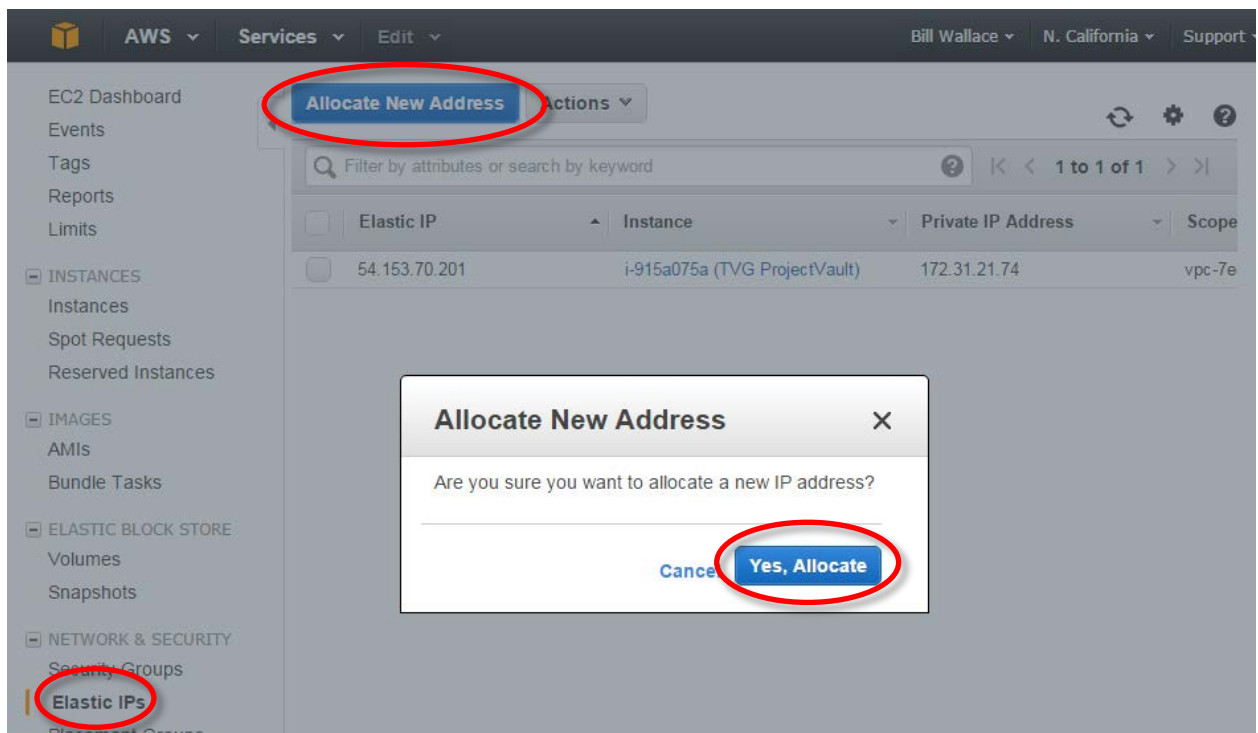
Go to **Elastic Ips.**
Click **Allocate New Address.**
Click **Yes, Allocate** in the dialog.
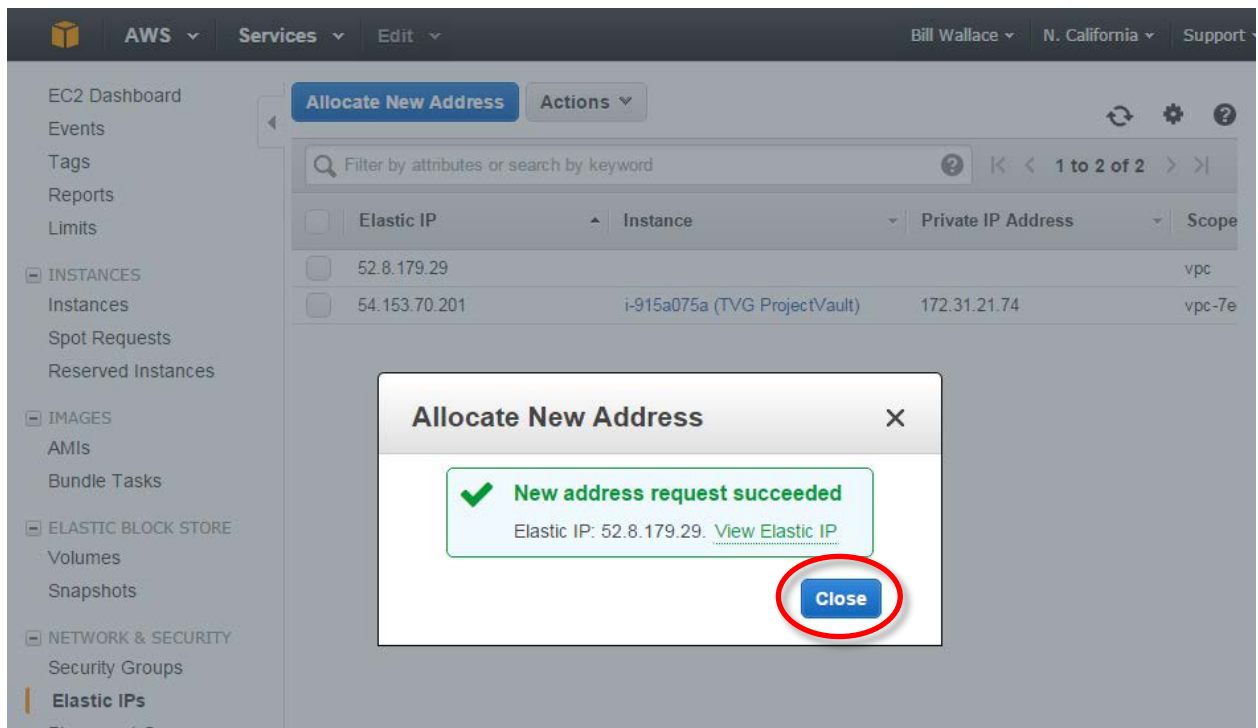
New IP Address will be allocated, click **Close.**

NOTE: this is the IP address of your CLM server.
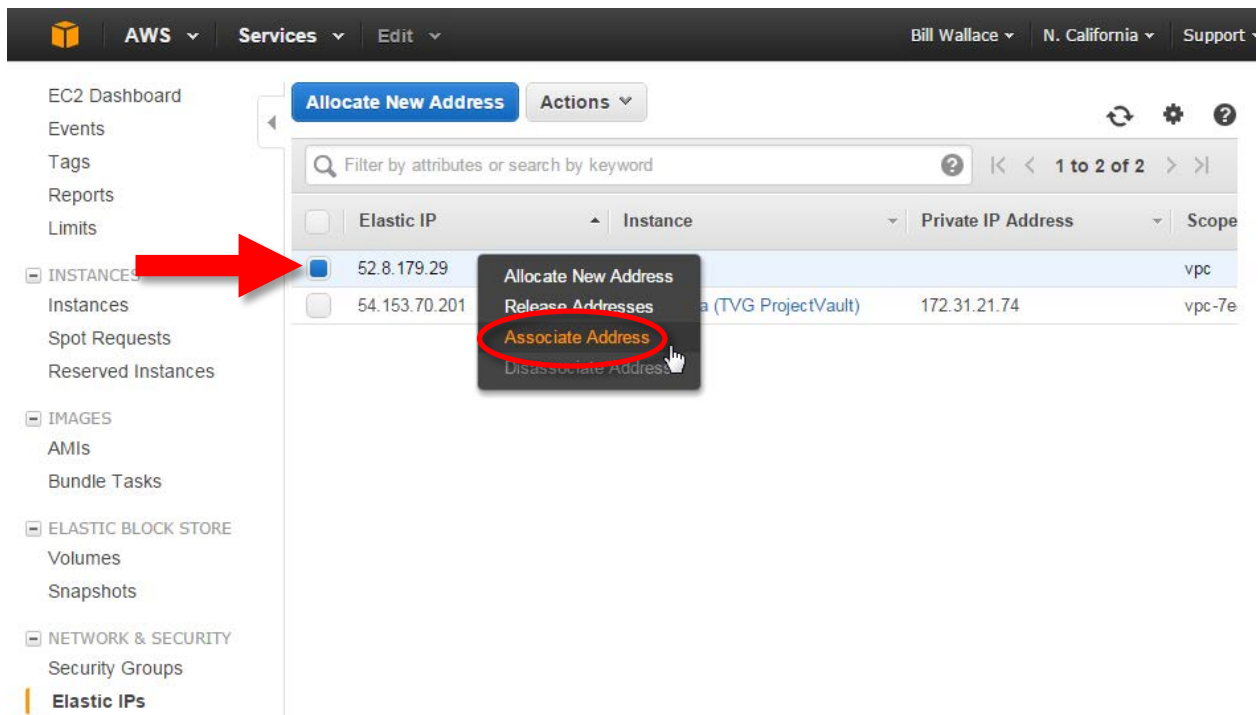
Right Click on the Address that was just created, and click **Associate Address.**

Click in the **Instance** box, and you should see two instances, or VMs running.
Be sure to select the CLM instances that was just created, or CLM Server.
Select that Instance/VM and click **Associate.**

Go to **Instances.**
Right click on **CLM Server.**
Click **Connect.**
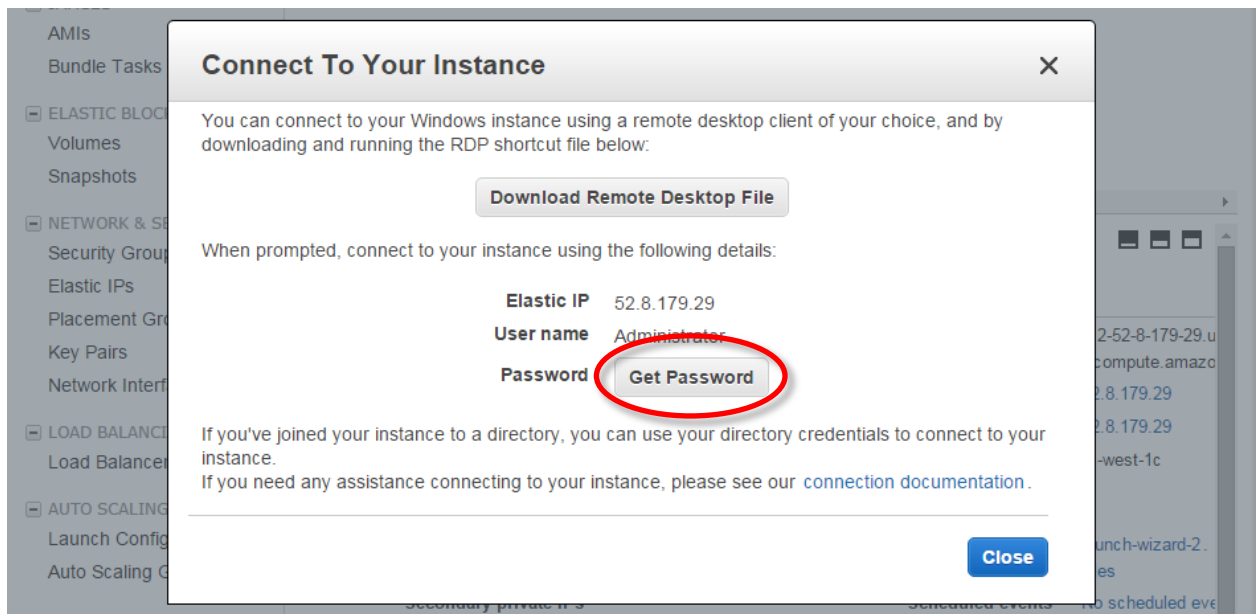
Click **Get Password.**
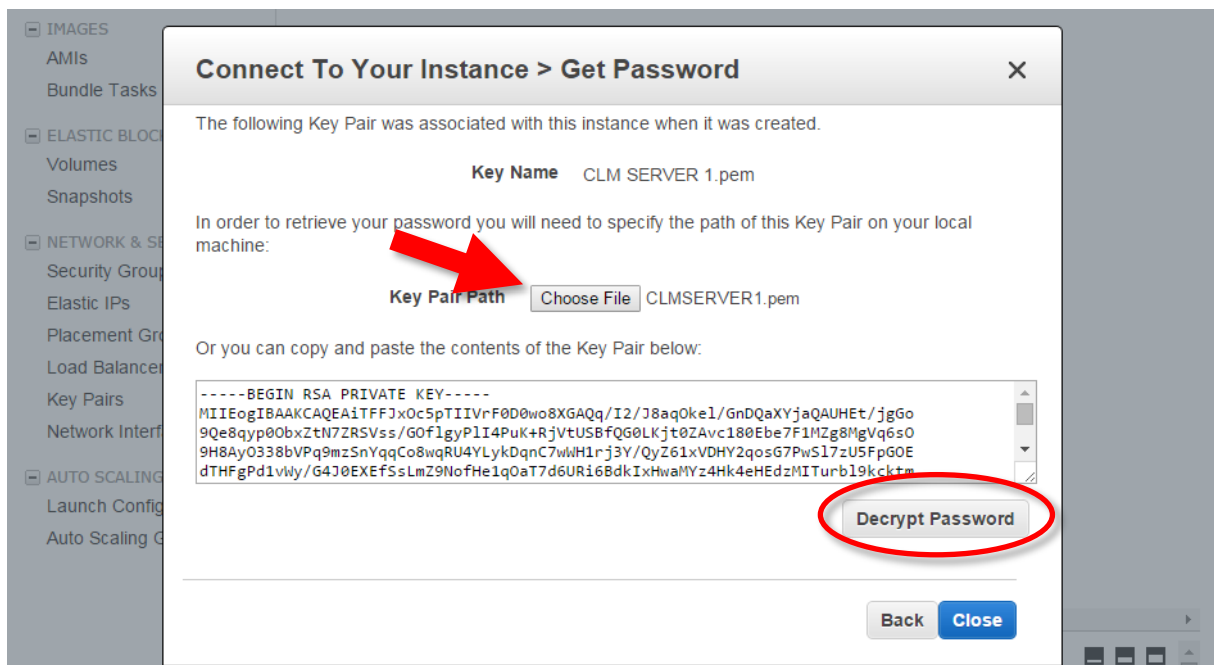
Click **Choose File** and browse to the file that was downloaded on page 23.

Click **Decrypt Password.**
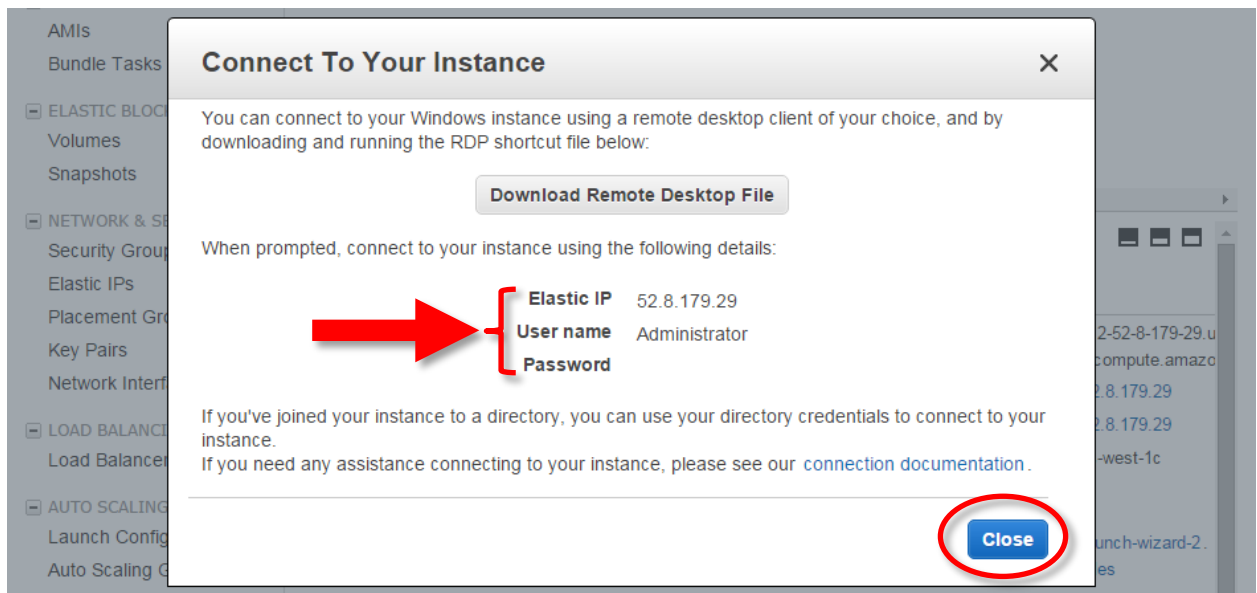
Take note of Elastic **IP, User Name, and Password** that was just created. Click **Close.**

5.   Installing CLM License Software

On you local PC, start Remote Desktop Connection. Enter your **IP address\Administrator.**
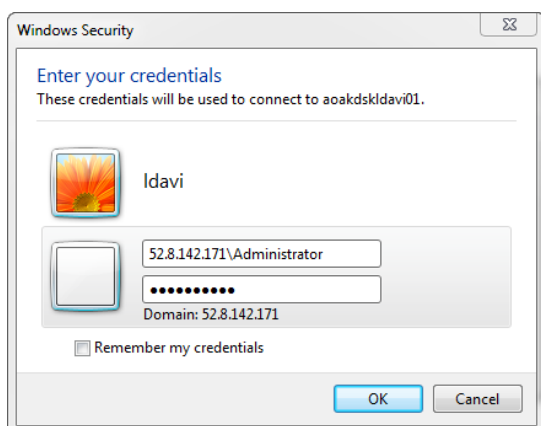
Click **Use another account**. Enter **IP\Administrator.** Enter **Password.**
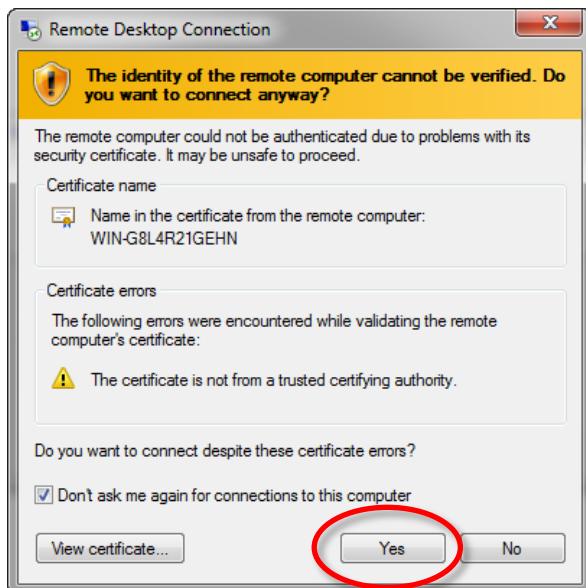
Click **Yes.**
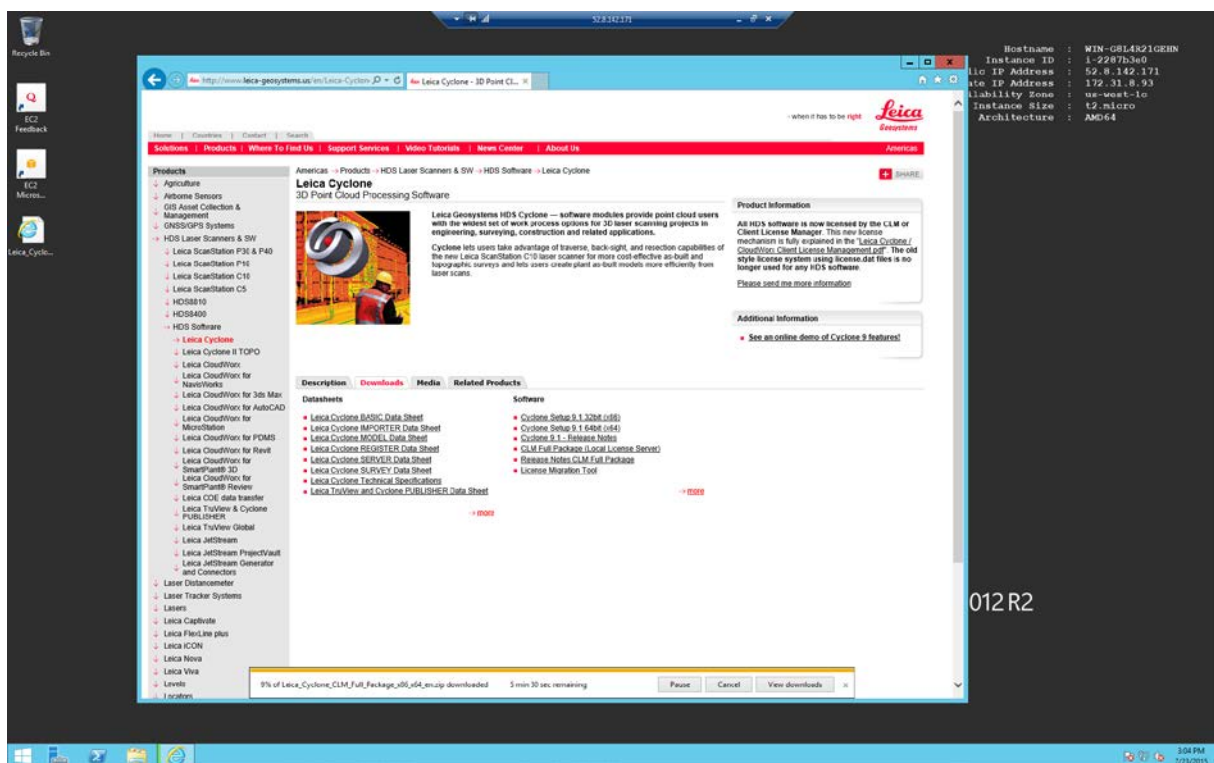
You will now be connected to your license server machine on AWS.

Go to **Cyclone Downloads** - http://www.leica-geosystems.us/en/Leica-Cyclone_6515.htm

Choose the **Downloads** tab.

Download and Install **CLM Full Package (Local License Server).**

Open **CLM for Floating Licenses.**
Click **Activate new Licenses.**
Enter and activate your TruView Global ProjectVault and Generator EIDs.

CLM Server and Licenses are now configured.

6.   Configuring License Server

Launch your browser and open your TruView Global server IP address that you obtained on page 14.
Use the default administrator username **admin** and password **admin**.

On the first log in, you will see the following message indicating that the server is not licensed. Click OK to dismiss the message.

> ⓘ This server is not licensed. Navigate to the 'Licensing' section to connect to a License Server

Click Licensing on the **Server Administration** page.

On the **License Management** page, click **License Server Info**.

Enter the IP address of your CLM server that you obtained on page 26.

License Server Info

License Server:

@54.21.52.117

Enter the license server name as <port-number>@<network-name>

Cancel   Ok

On the **License Management** page, click **Acquire License**. The system will now check for a TruView Global license on your license server.

NOTE: it may take several minutes for TruView Global to acquire a license from your license server.

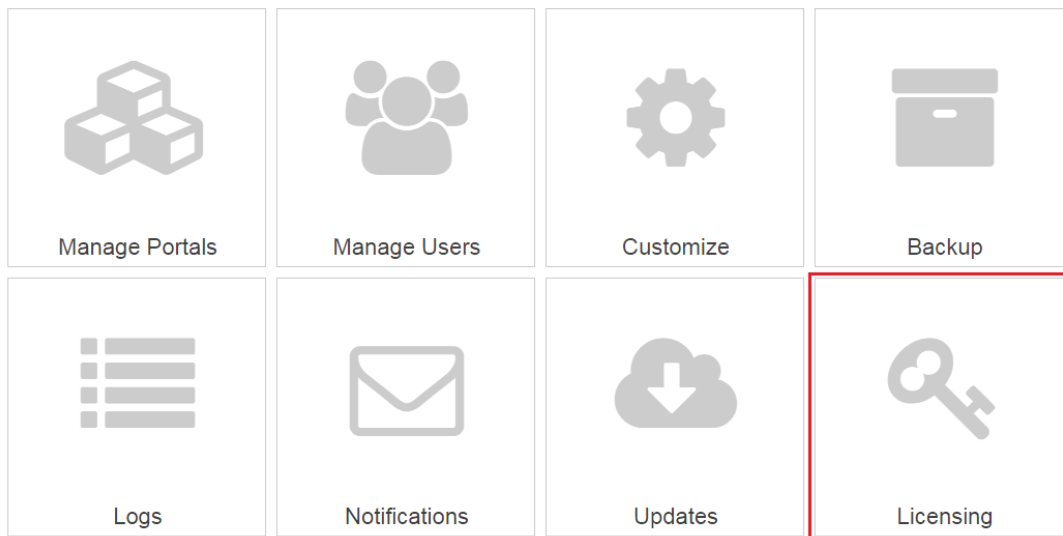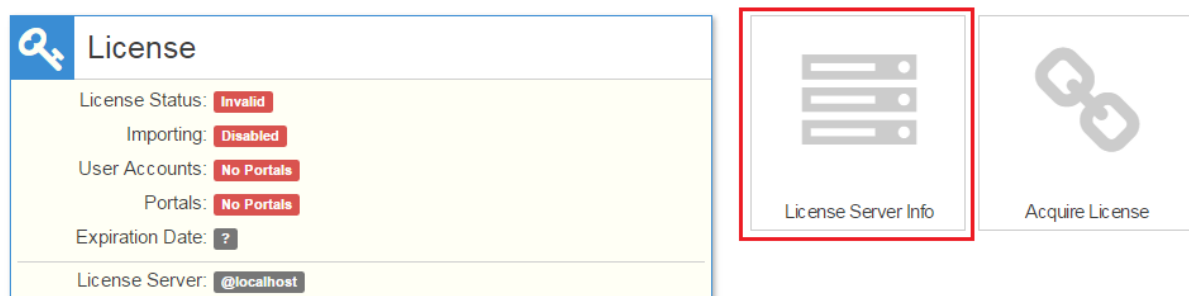**License Management**

License

License Status: Invalid
Importing: Disabled
User Accounts: No Portals
Portals: No Portals
Expiration Date: ?
License Server: @localhost

License Server Info   Acquire License

If the license configuration is correct and the CLM server has a valid TruView Global license, you will see a success message and information related to the license you have.

License Management

License

License Status: Valid
Importing: Enabled
User Accounts: Unlimited available per Portal
Portals: 10 available
Expiration Date: 2016.0826
License Server: @qa-win81

License Server Info   Acquire License

✓ Success
↻ License Acquired successfully. The new license is being applied to the server.

In the event that TruView Global fails to verify a license, an error similar to the screenshot below will be shown. Contact Leica HDS support for assistance.
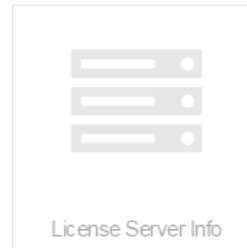
License Management

7. Accessing TruView Global Server Console

To access TruView Global server console for server administration and troubleshooting, use PuTTY tool, which is an interface to c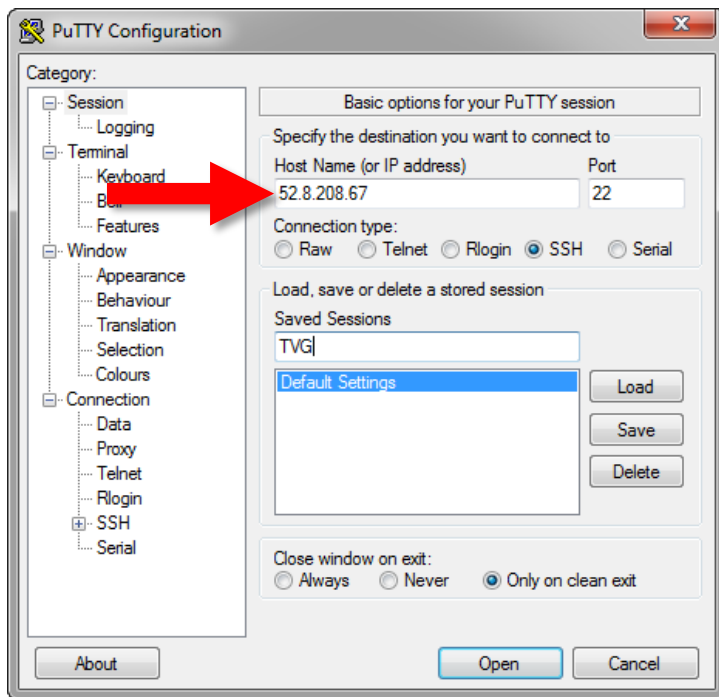onnect to TruView Global server. You can download PuTTY from http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

Download putty.exe.

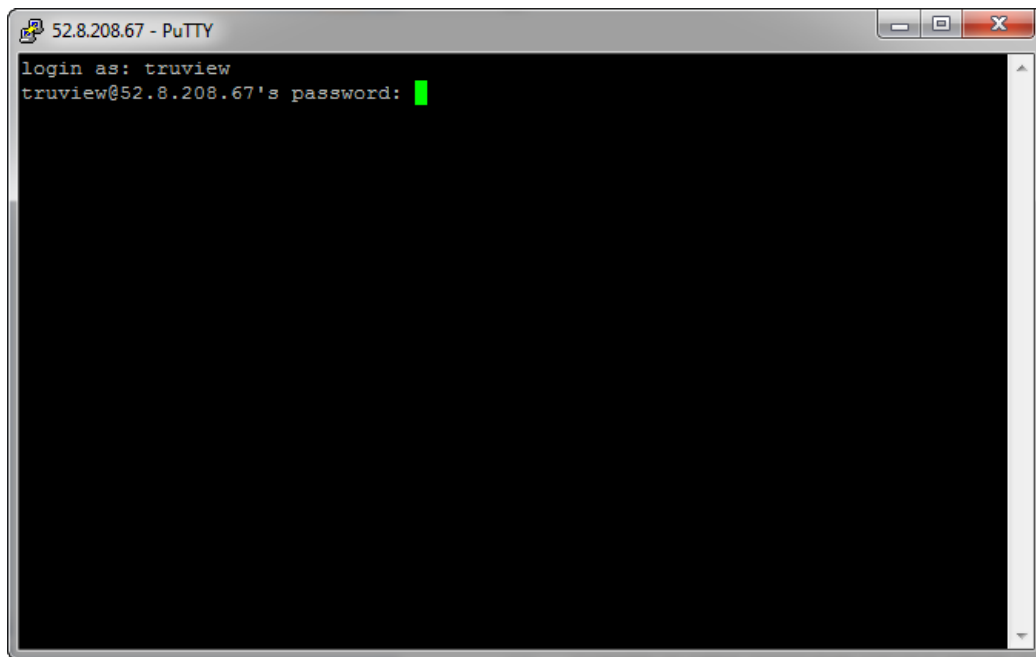Enter the IP Address of your TruView Global that you obtained on page 14. You can Name and Save the Session so you will not have to remember the IP address.
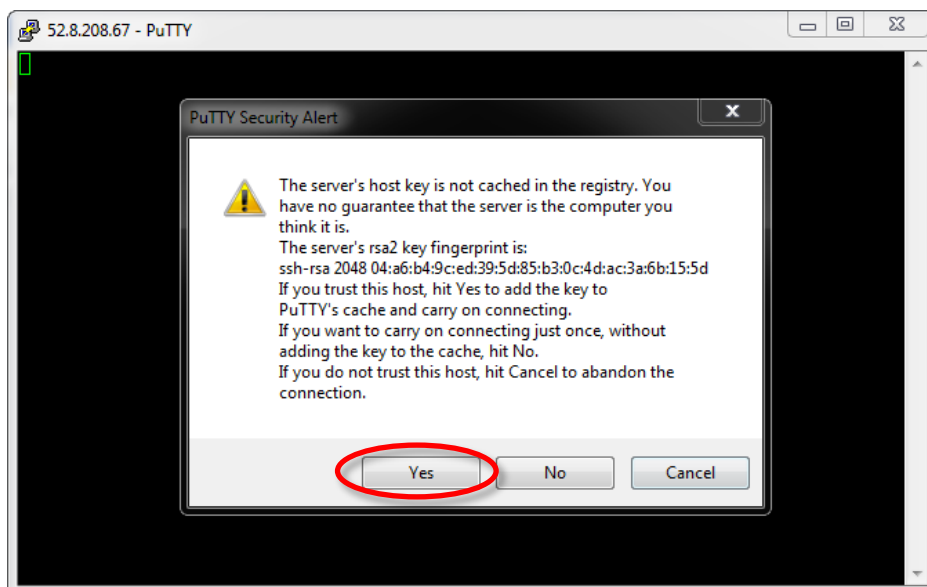
Click **Yes.**

Enter the default login username: **truview**

Enter the default password: **labolg01**

You are now logged in to TruView Global server console.