

# Leica Geosystems

## TruView Global AWS Deployment Guide

**Product** TruView Global 2.2

**Date** 31 August 2016

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## 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?

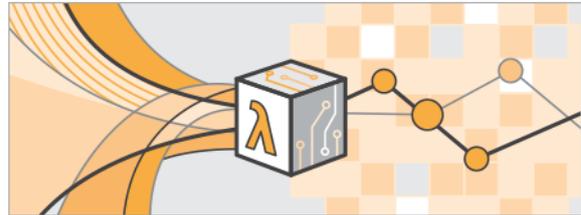
E-mail or mobile number:

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

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for Free Today

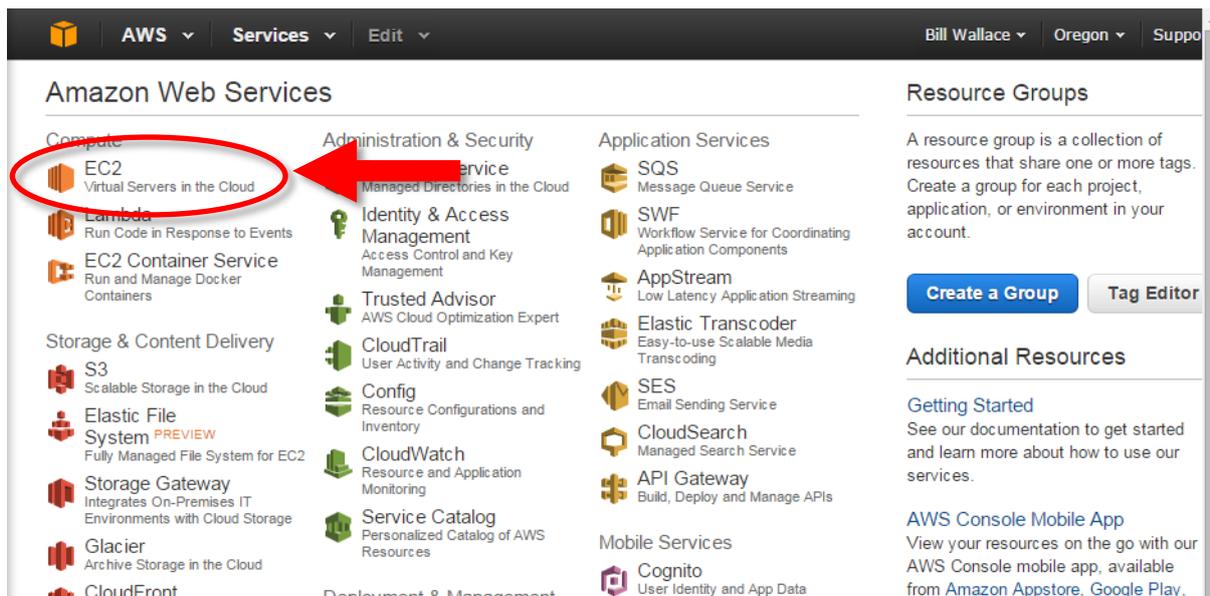
[Learn more](#)

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.

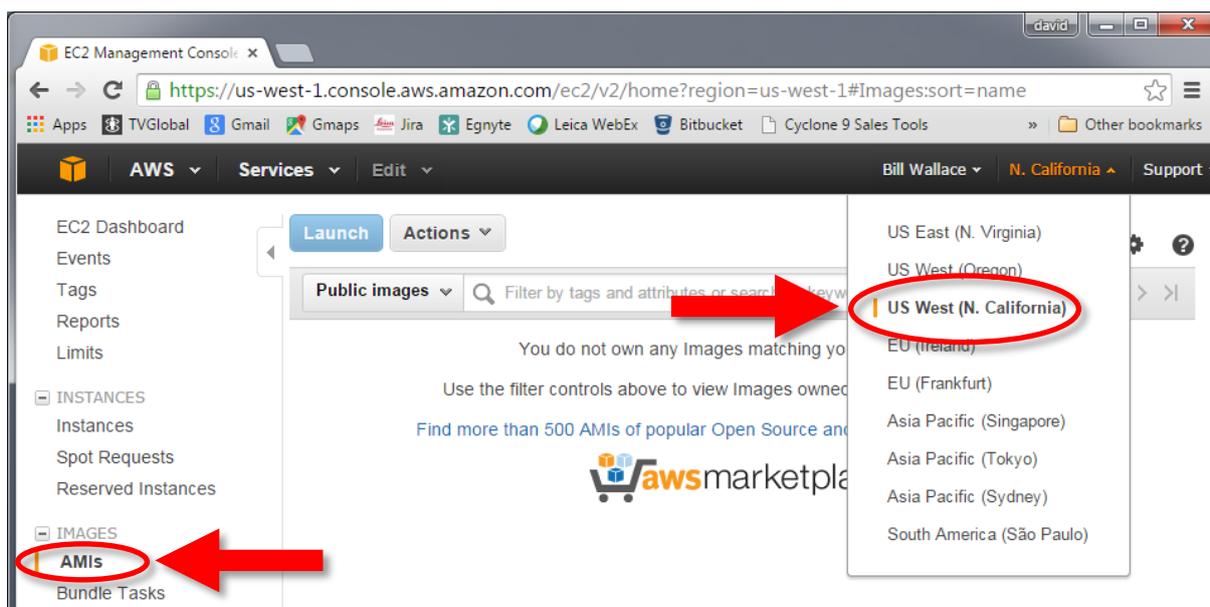


Once you have created an account, go to **My Account > AWS Management Console**. Enter your Username / Password, and sign in.

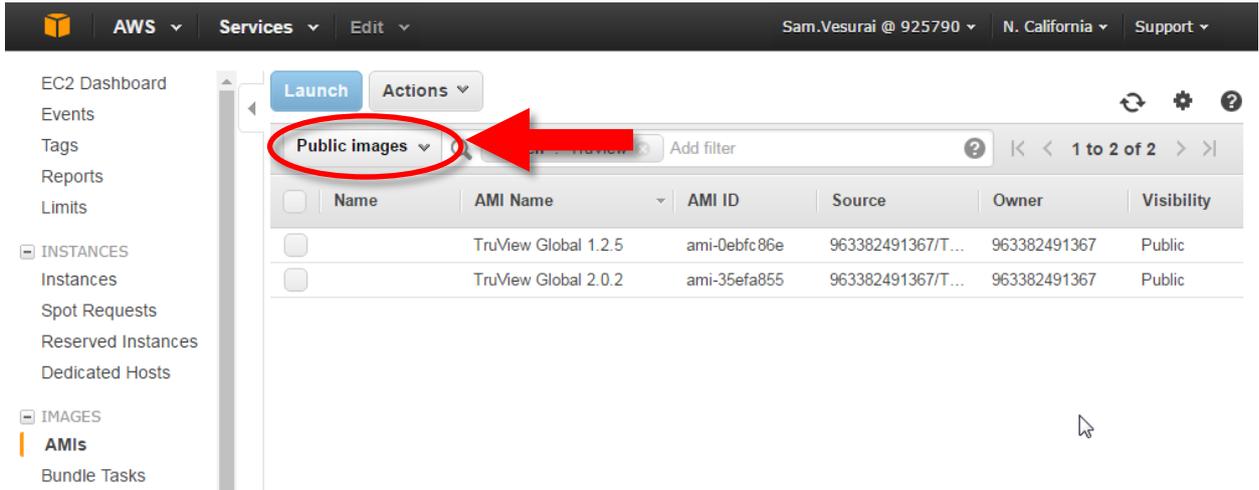
### 3. Creating a TruView Global Server on AWS



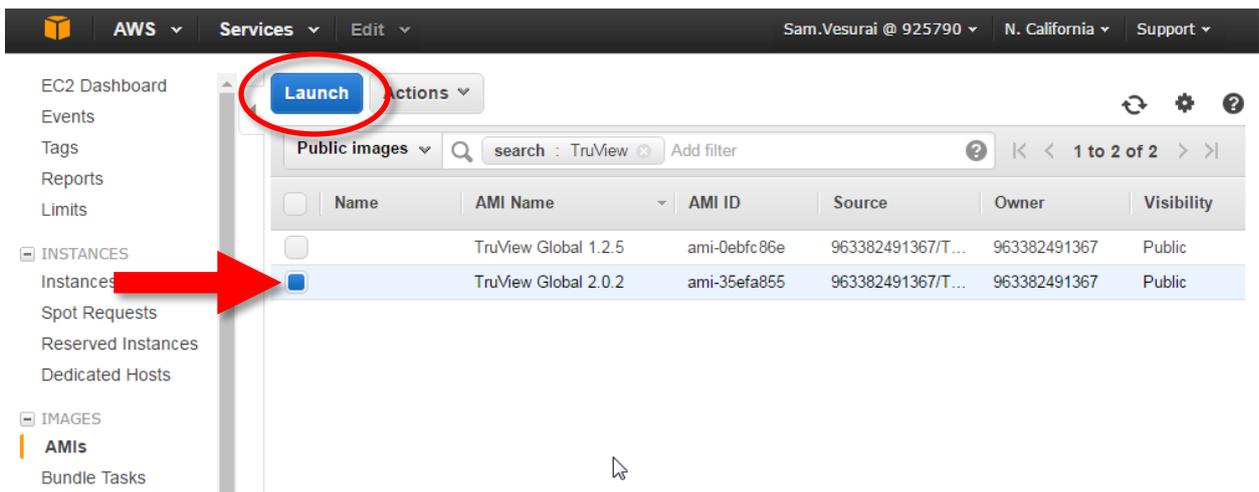
Click **EC2**.



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**.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group

## Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: m4.large (6.5 ECUs, 2 vCPUs, 2.4 GHz, Intel Xeon E5-2676v3, 8 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Net Perform
<input type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to
<input checked="" type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Mod
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	H
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	H
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	H
<input type="checkbox"/>	General purpose	m4.10xlarge	40	160	EBS only	Yes	10.0
<input type="checkbox"/>	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Mod

Cancel Previous Review and Launch Next: Configure Instance Details

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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.

### Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>
Purchasing option	<input type="checkbox"/> Request Spot Instances
Network	<input type="text" value="vpc-7e43991b (172.31.0.0/16) (default)"/> <a href="#">Create new VPC</a>
Subnet	<input type="text" value="No preference (default subnet in any Availability Zo)"/> <a href="#">Create new subnet</a>
Auto-assign Public IP	<input type="text" value="Use subnet setting (Enable)"/>
Placement group	<input type="text" value="No placement group"/>
IAM role	<input type="text" value="None"/> <a href="#">Create new IAM role</a>
Shutdown behavior	<input type="text" value="Stop"/>
Enable termination protection	<input type="checkbox"/> Protect against accidental termination
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring <small>Additional charges apply.</small>
EBS-optimized instance	<input checked="" type="checkbox"/> Launch as EBS-optimized instance
Tenancy	<input type="text" value="Shared tenancy (multi-tenant hardware)"/> <small>Additional charges will apply for dedicated tenancy.</small>

▶ Advanced Details

Cancel Previous **Review and Launch** **Next: Add Storage**

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

### Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-0ddd9f3	300	General Purpose	900 / 3000	N/A	<input type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

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)”.

AWS Services Edit Bill Wallace N. California

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group

### Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)
<input type="text" value="Name"/>	<input type="text"/>

**Create Tag** (Up to 10 tags maximum)

Cancel Previous **Review and Launch** **Next: Configure Security Group**

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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 “tvj-security-group”.

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

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

**Assign a security group:**  Create a **new** security group  
 Select an **existing** security group

**Security group name:** tvj-security-group  
**Description:** security group for TruView Global

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere 0.0.0.0/0
HTTP	TCP	80	Anywhere 0.0.0.0/0
Custom TCP Rule	TCP	9000	Anywhere 0.0.0.0/0
Custom TCP Rule	TCP	27008-27010	Anywhere 0.0.0.0/0
HTTPS	TCP	443	Anywhere 0.0.0.0/0
All ICMP	ICMP	0 - 65535	Anywhere 0.0.0.0/0

**Add Rule**

**Warning**  
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

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.

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠ Improve your instances' security. Your security group, tvg-security-group, is open to the world.**  
 Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

**⚠ Your instance configuration is not eligible for the free usage tier**  
 To launch an instance that's eligible for the free usage tier, check your AMI selection, instance type, configuration options, or storage devices. Learn more about [free usage tier](#) eligibility and usage restrictions. [Don't show me this again](#)

AMI Details [Edit AMI](#)

**TruView Global 2.0.2 - ami-35efa855**  
 TruView Global 2.0.2  
 Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
m4.large	6.5	2	8	EBS only	Yes	Moderate

Security Groups [Edit security groups](#)

**Security group name** tvg-security-group  
**Description** default security group for TruView Global

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
HTTP	TCP	80	0.0.0.0/0
Custom TCP Rule	TCP	9000	0.0.0.0/0
Custom TCP Rule	TCP	27008 - 27010	0.0.0.0/0
SSH	TCP	22	0.0.0.0/0
HTTPS	TCP	443	0.0.0.0/0
All ICMP	All	N/A	0.0.0.0/0

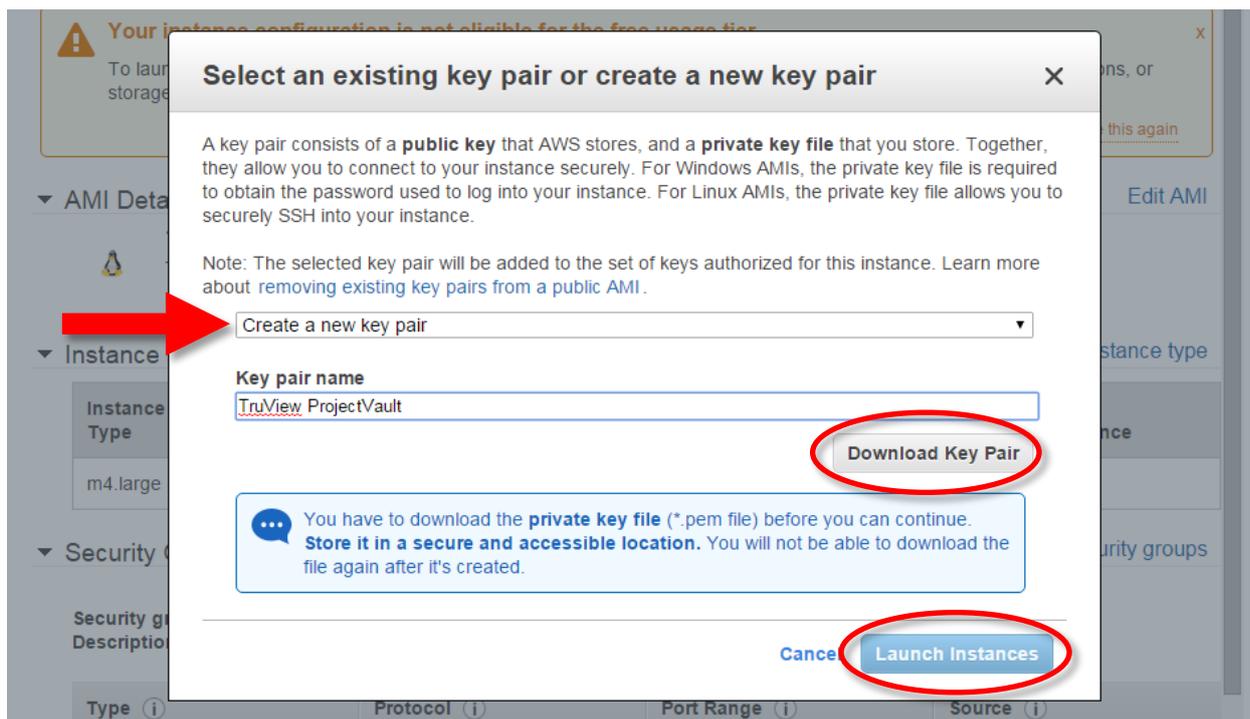
Instance Details [Edit instance details](#)

Storage [Edit storage](#)

Tags [Edit tags](#)



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.**

## Launch Status

 **Your instances are now launching**  
The following instance launches have been initiated: [i-ae521465](#) [View launch log](#)

 **Get notified of estimated charges**  
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

#### ▼ Here are some helpful resources to get you started

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

[Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

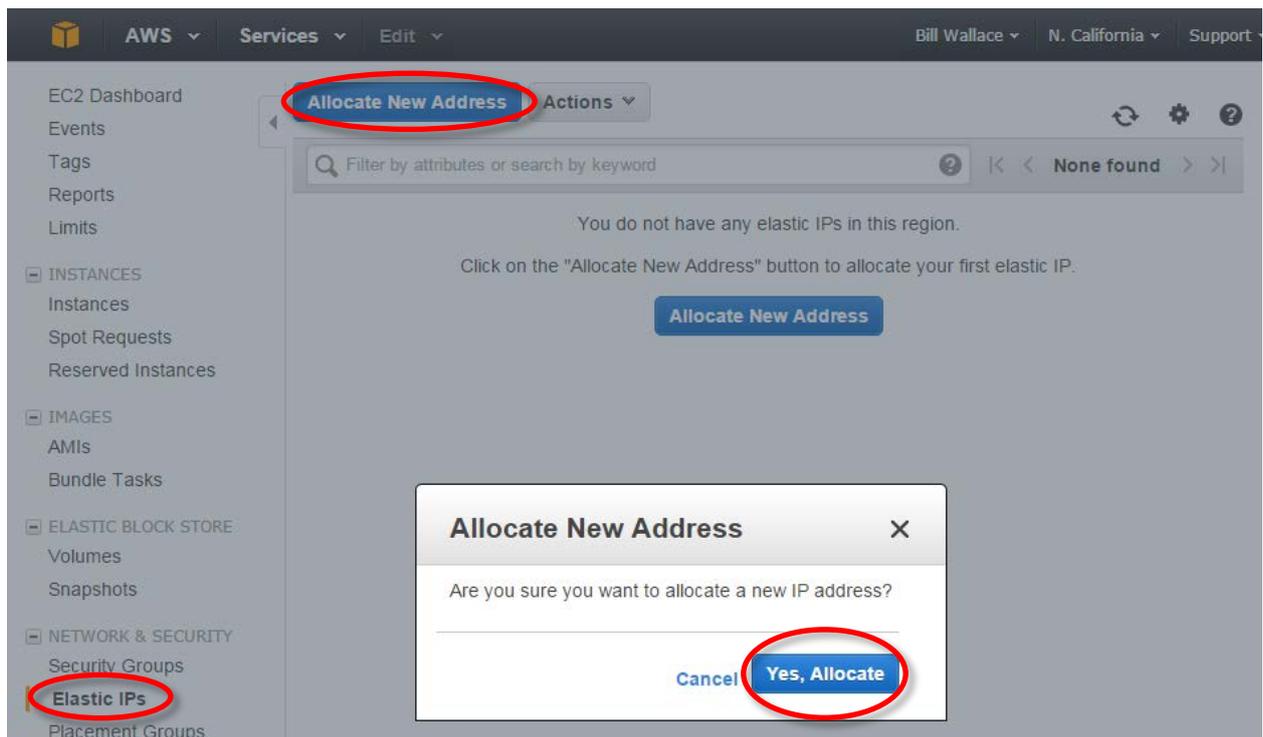
[Create and attach additional EBS volumes](#) (Additional charges may apply)

[Manage security groups](#)

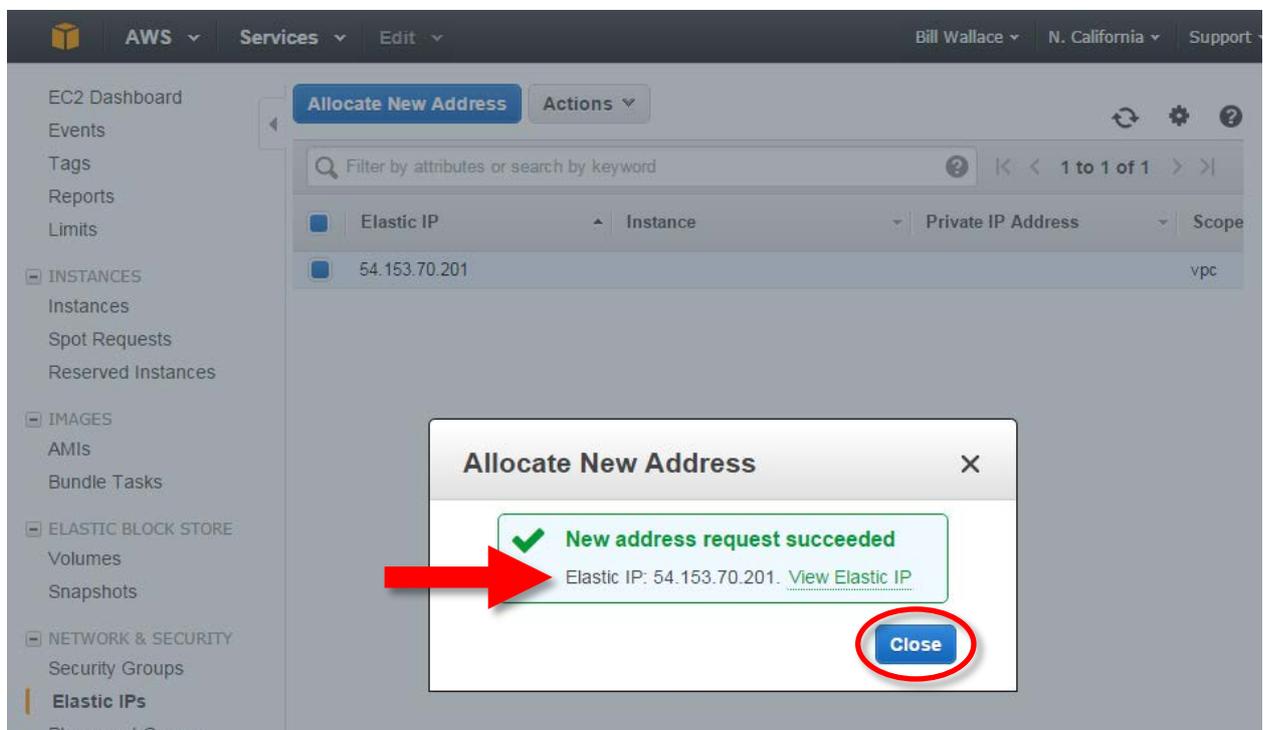


You can check the status of your server by clicking **View Instances**.

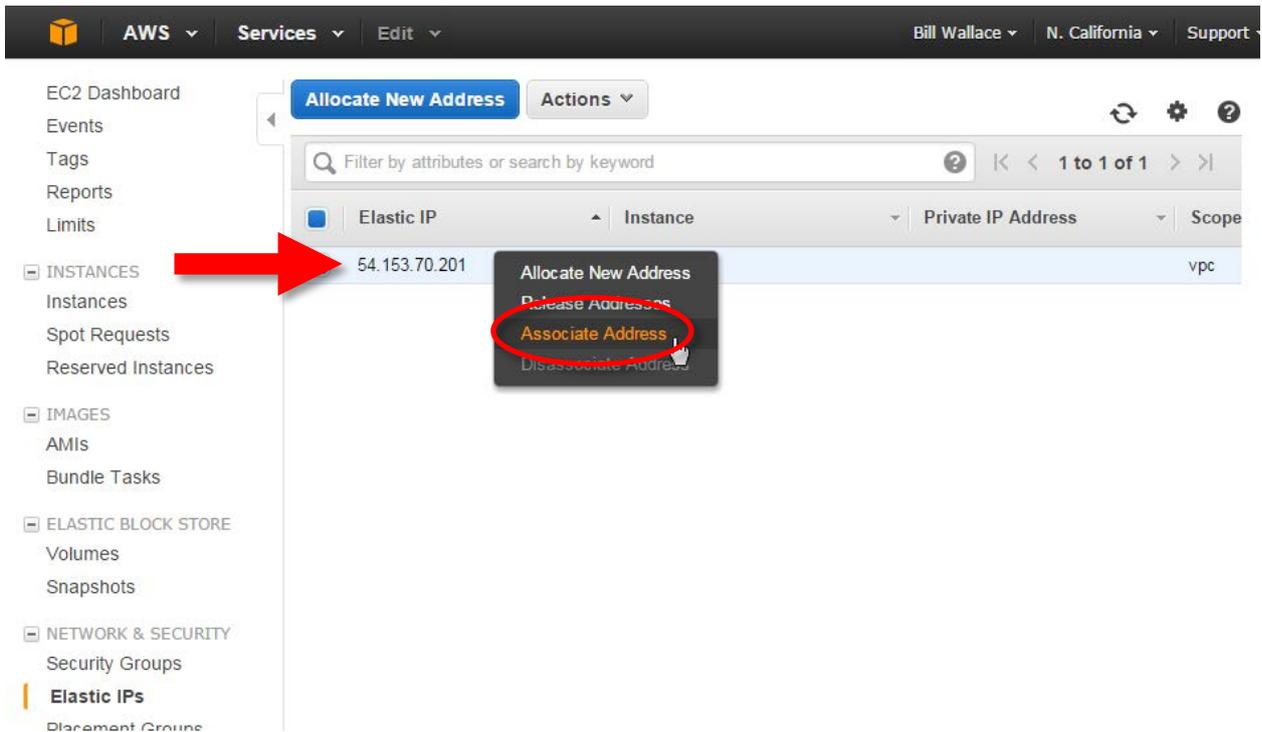
## Obtaining a Public IP Address for Your TruView Global Server



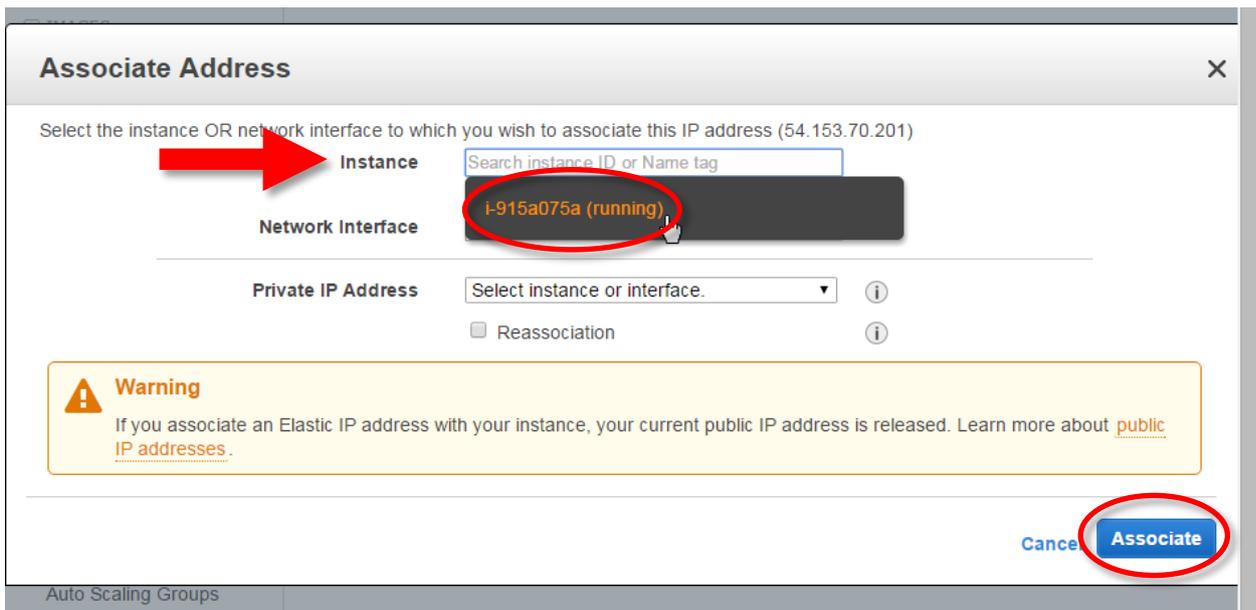
Go to **Elastic IPs**.  
Click **Allocate New Address**.  
Click **Yes, Allocate** in the dialog.



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



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

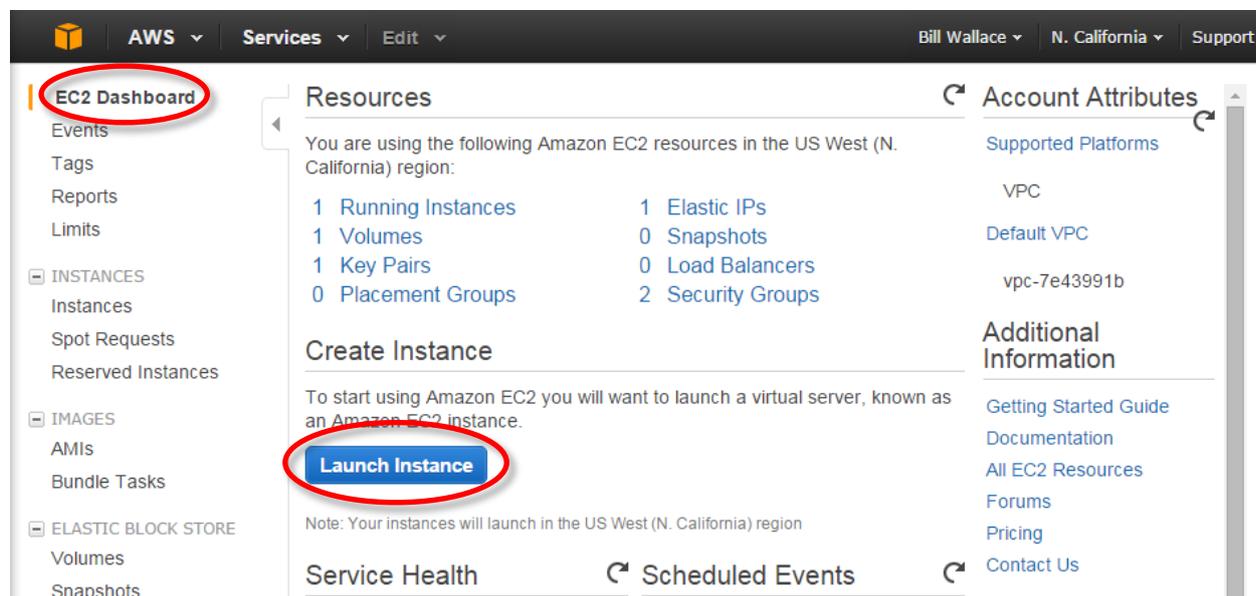


Click in the **Instance** box, and you should see the one instance, or VM that was just created. Select that Instance/VM and click **Associate**. Your TruView Global ProjectVault is now running.

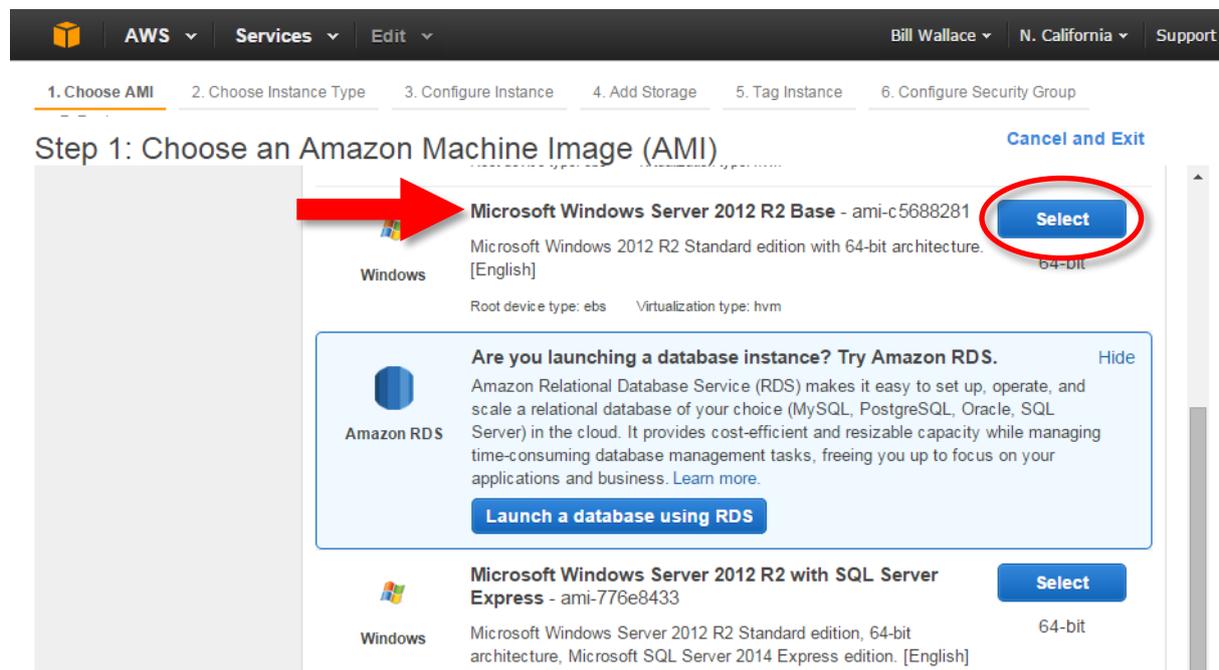
#### 4. Creating a CLM License Server on AWS

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**.

### Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)



	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Net Perform
<input checked="" type="checkbox"/>	General purpose	t2.micro <span>Free tier eligible</span>	1	1	EBS only	-	Low to
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Mod
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	F
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	F
<input type="checkbox"/>	General purpose	m4.4xlarge	16	64	EBS only	Yes	F
<input type="checkbox"/>	General purpose	m4.10xlarge	40	160	EBS only	Yes	10.0
<input type="checkbox"/>	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Mod
<input type="checkbox"/>	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	Mod

Cancel Previous Review and Launch Next: Configure Instance Details

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

### Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	<input type="text" value="1"/>
Purchasing option	<input type="checkbox"/> Request Spot Instances
Network	<input type="text" value="vpc-7e43991b (172.31.0.0/16) (default)"/> <a href="#">Create new VPC</a>
Subnet	<input type="text" value="No preference (default subnet in any Availability Zo)"/> <a href="#">Create new subnet</a>
Auto-assign Public IP	<input type="text" value="Use subnet setting (Enable)"/>
IAM role	<input type="text" value="None"/> <a href="#">Create new IAM role</a>
Shutdown behavior	<input type="text" value="Stop"/>
Enable termination protection	<input type="checkbox"/> Protect against accidental termination
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply.
Tenancy	<input type="text" value="Shared tenancy (multi-tenant hardware)"/> Additional charges will apply for dedicated tenancy.

▶ Advanced Details

Cancel Previous **Review and Launch** **Next: Add Storage**

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

- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Tag Instance
- 6. Configure Security Group

### Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Delete on Termination	Encrypted
Root	/dev/sda1		35	General Purpose (SSD)	90 / 3000	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous **Review and Launch** **Next: Tag Instance**

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

- 1. Choose AMI
- 2. Choose Instance Type
- 3. Configure Instance
- 4. Add Storage
- 5. Tag Instance
- 6. Configure Security Group

### Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)
<input type="text" value="Name"/>	<input type="text"/>
<b>Create Tag</b> (Up to 10 tags maximum)	

Cancel Previous **Review and Launch** Next: Configure Security Group

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

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1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group

## Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:  Create a **new** security group  
 Select an **existing** security group

Security group name: launch-wizard-1

Description: launch-wizard-3 created 2015-07-22T14:18:56.561-07:00

Type	Protocol	Port Range	Source
RDP	TCP	3389	Anywhere
Custom TCP Rule	TCP	27000-27100	Anywhere
Custom ICMP Rule	Echo Reply	N/A	Anywhere

Add Rule



### Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous **Review and Launch**

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**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**.

**AWS** Services Edit Bill Wallace N. California Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group

## Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

**⚠ Improve your instances' security. Your security group, launch-wizard-1, is open to the world.**

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ **AMI Details** [Edit AMI](#)

**Microsoft Windows Server 2012 R2 Base - ami-c5688281**  
 Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]  
 Root Device Type: ebs Virtualization type: hvm

▼ **Instance Type** [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

▼ **Security Groups** [Edit security groups](#)

**Security group name** launch-wizard-1  
**Description** launch-wizard-3 created 2015-07-22T14:18:56.561-07:00

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
RDP	TCP	3389	0.0.0.0/0
Custom TCP Rule	TCP	27000 - 27100	0.0.0.0/0
Custom ICMP Rule	Echo Reply	N/A	0.0.0.0/0

▶ **Instance Details** [Edit instance details](#)

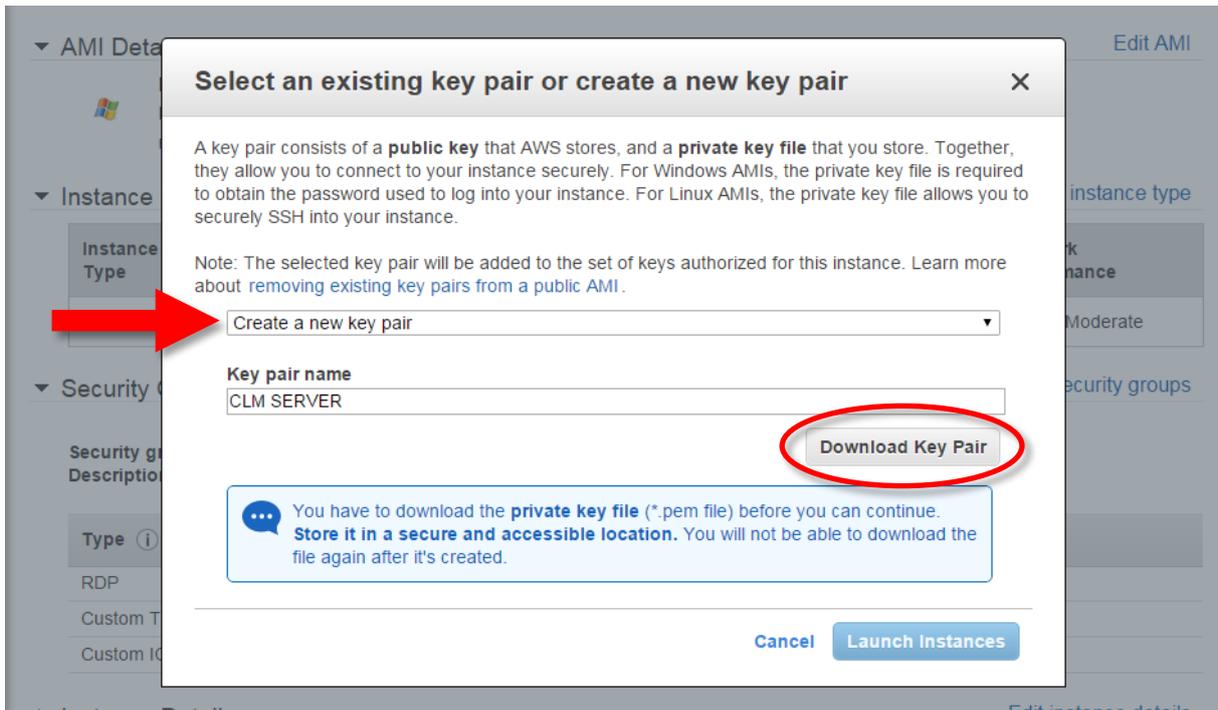
▶ **Storage** [Edit storage](#)

▶ **Tags** [Edit tags](#)

Cancel Previous **Launch**

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Click **Launch**.

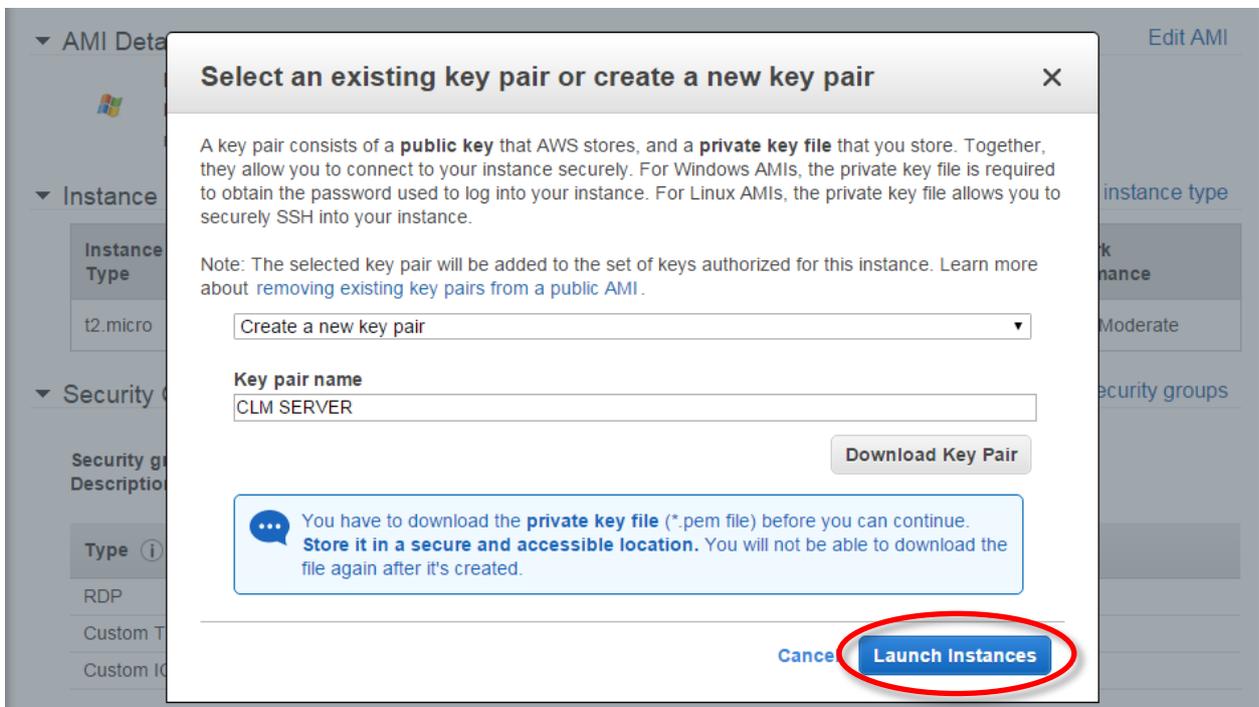


You will be prompted to select an existing key pair. Choose **Create a new key Pair**.

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**.

## Launch Status

 **Your instances are now launching**

The following instance launches have been initiated: [i-d96c791b](#) [View launch log](#)



 **Get notified of estimated charges**

[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

### How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click **View Instances** to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

#### Here are some helpful resources to get you started

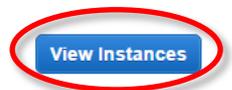
- [Amazon EC2: User Guide](#)
- [How to connect to your Windows instance](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

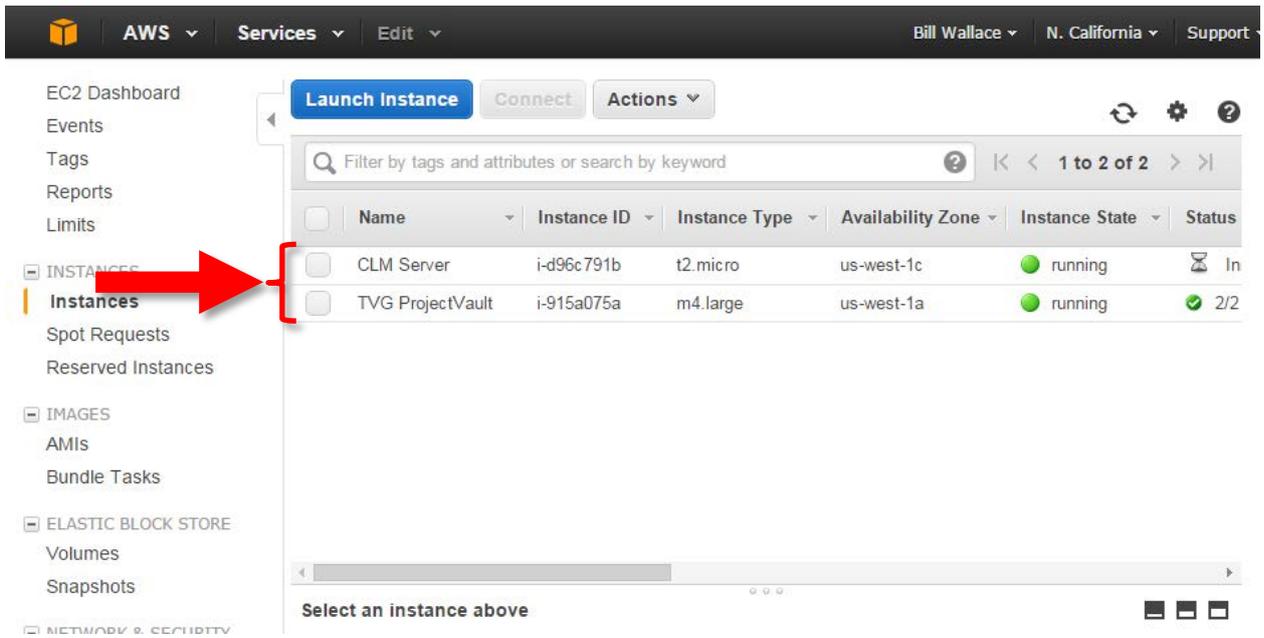
[Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

[Create and attach additional EBS volumes](#) (Additional charges may apply)

[Manage security groups](#)

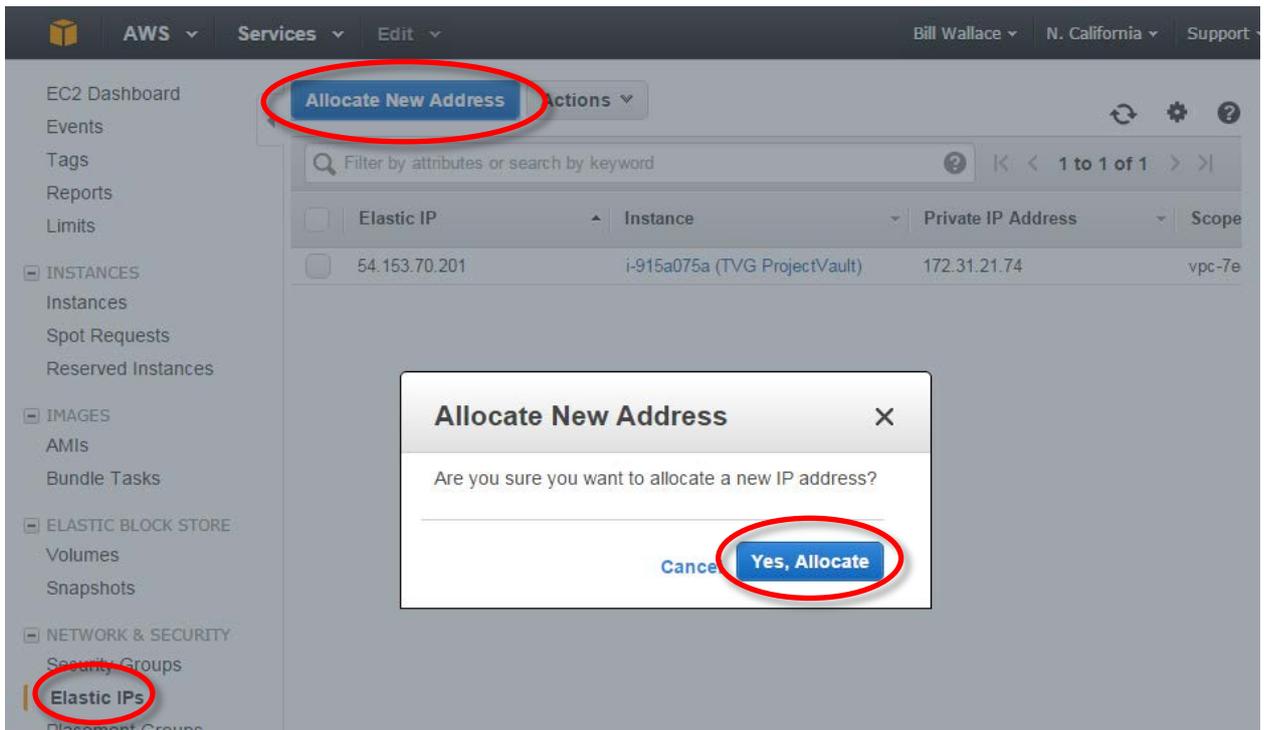


**Take note** of the Instance name. Click **View Instances** to see the status of your CLM server.

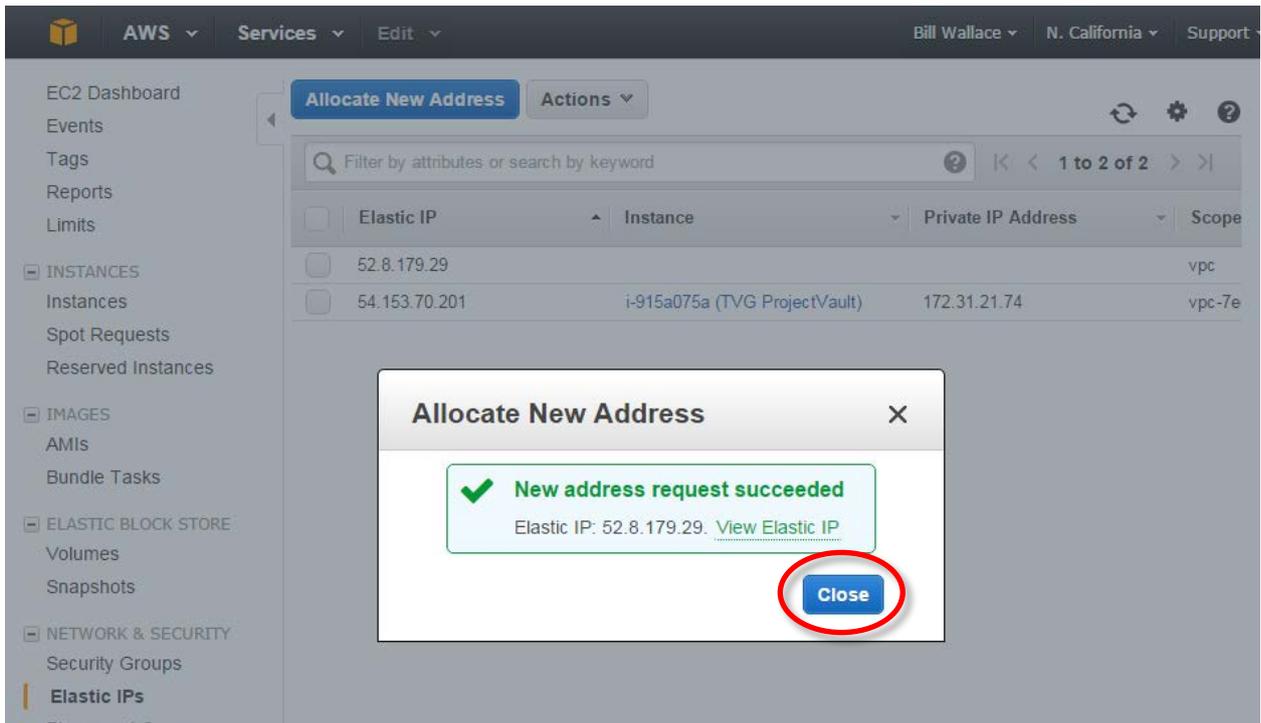


You should see both instances running.

**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.

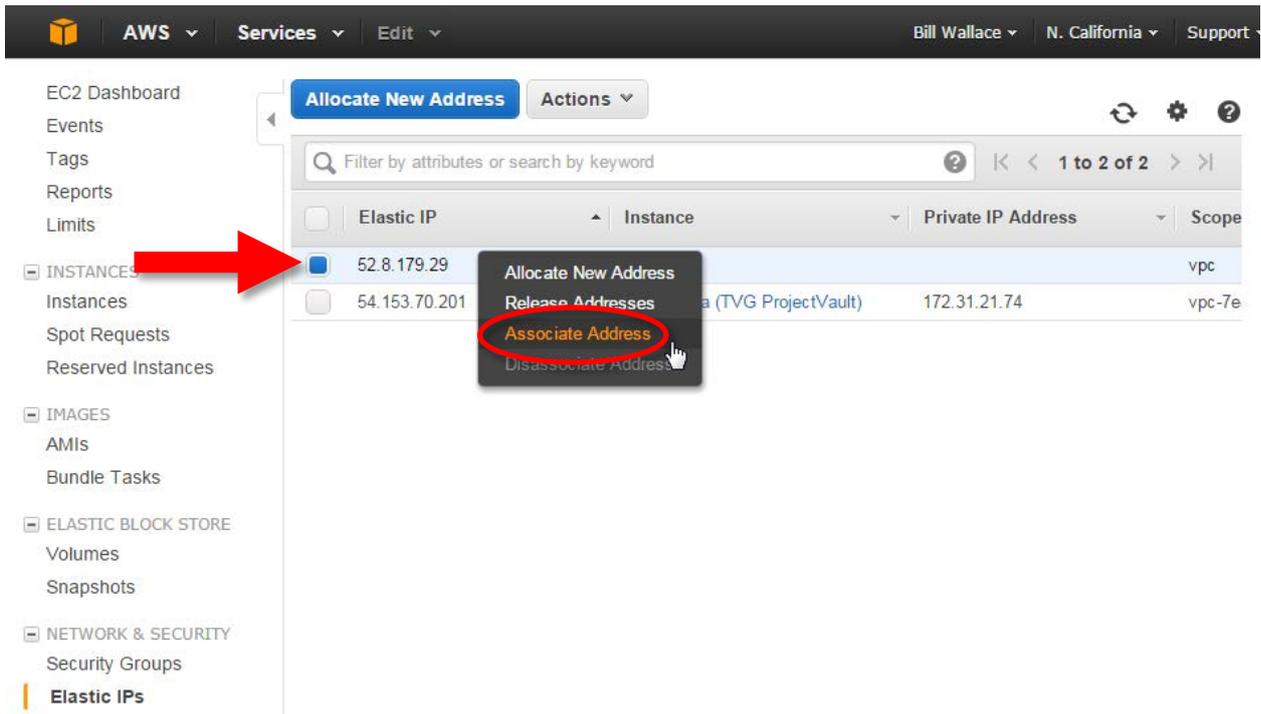


Go to **Elastic Ips**.  
 Click **Allocate New Address**.  
 Click **Yes, Allocate** in the dialog.

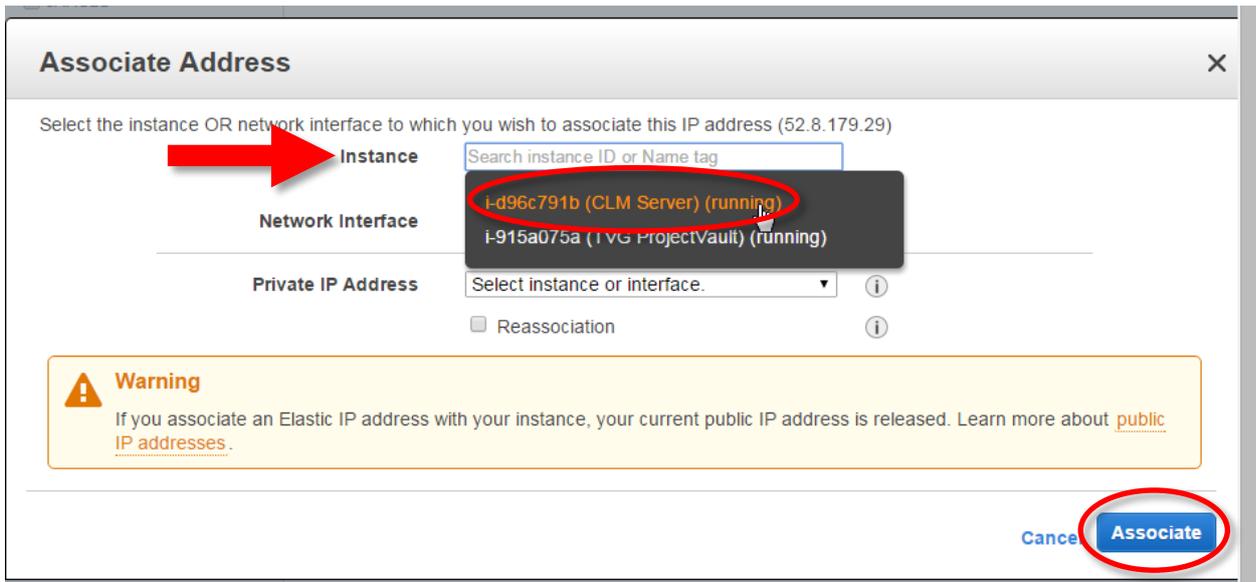


New IP Address will be allocated, click **Close**.

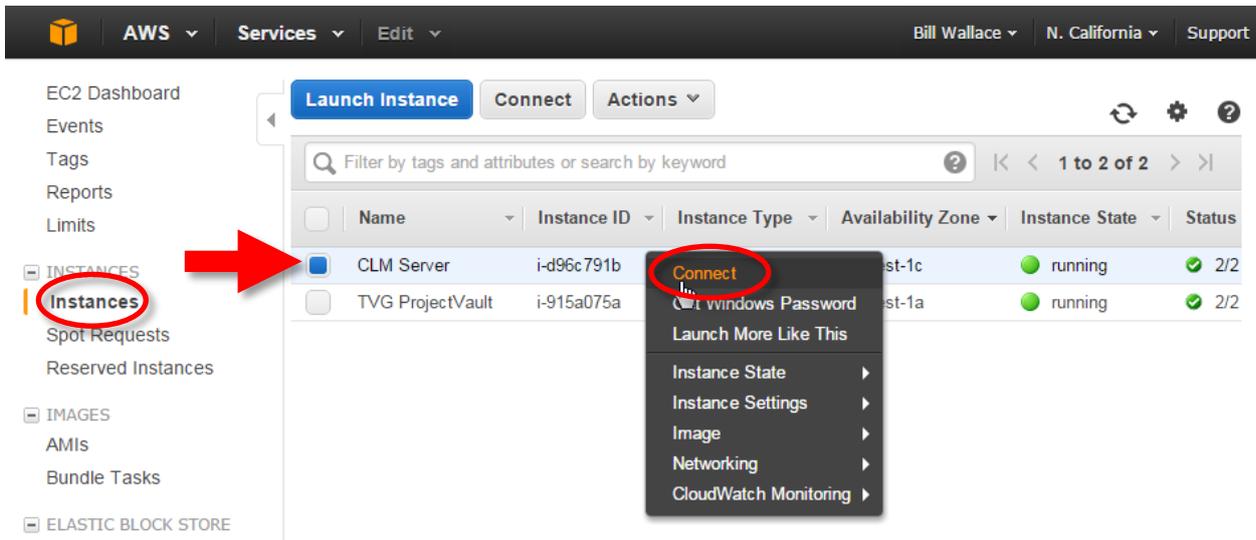
**NOTE:** this is the IP address of your CLM server.



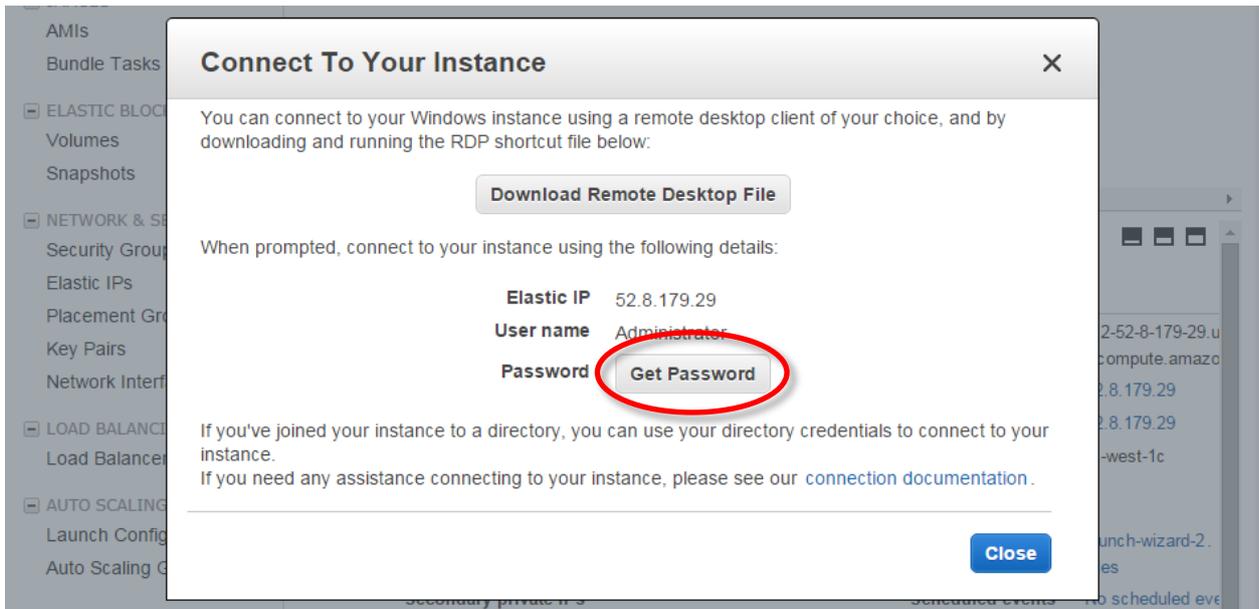
**Right Click** on the Address that was just created, and click **Associate Address**.



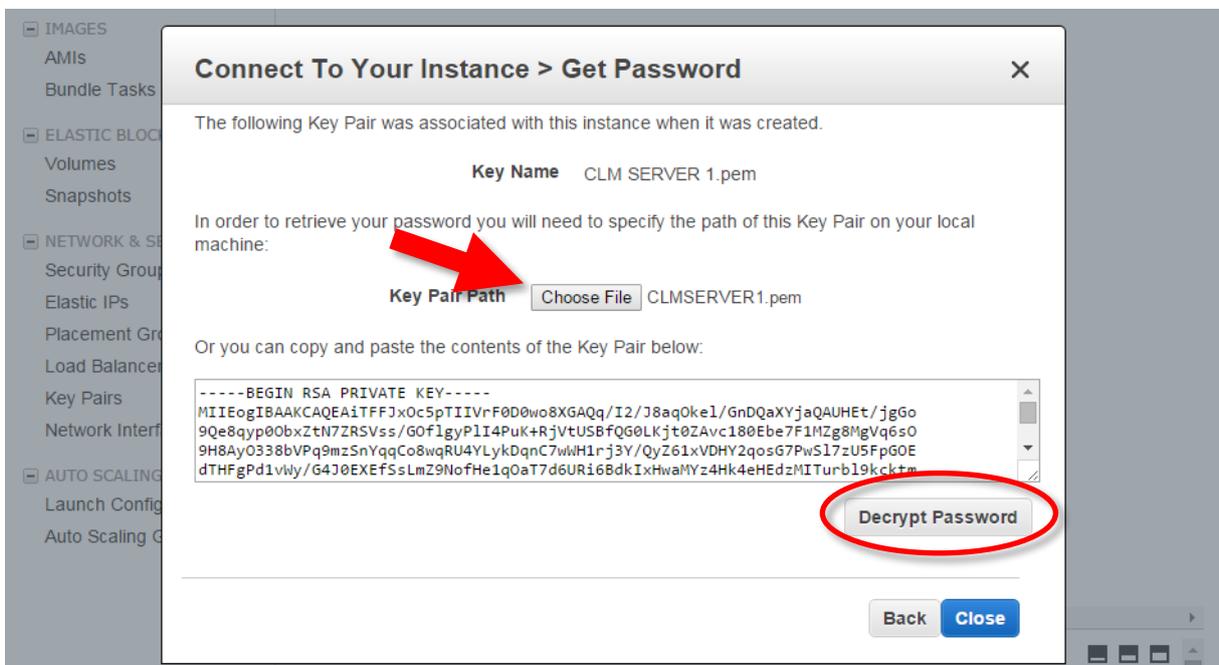
Click in the **Instance** box, and you should see two instances, or VMs running. Be sure to select the CLM instances that was just created, or CLM Server. Select that Instance/VM and click **Associate**.



Go to **Instances**.  
Right click on **CLM Server**.  
Click **Connect**.

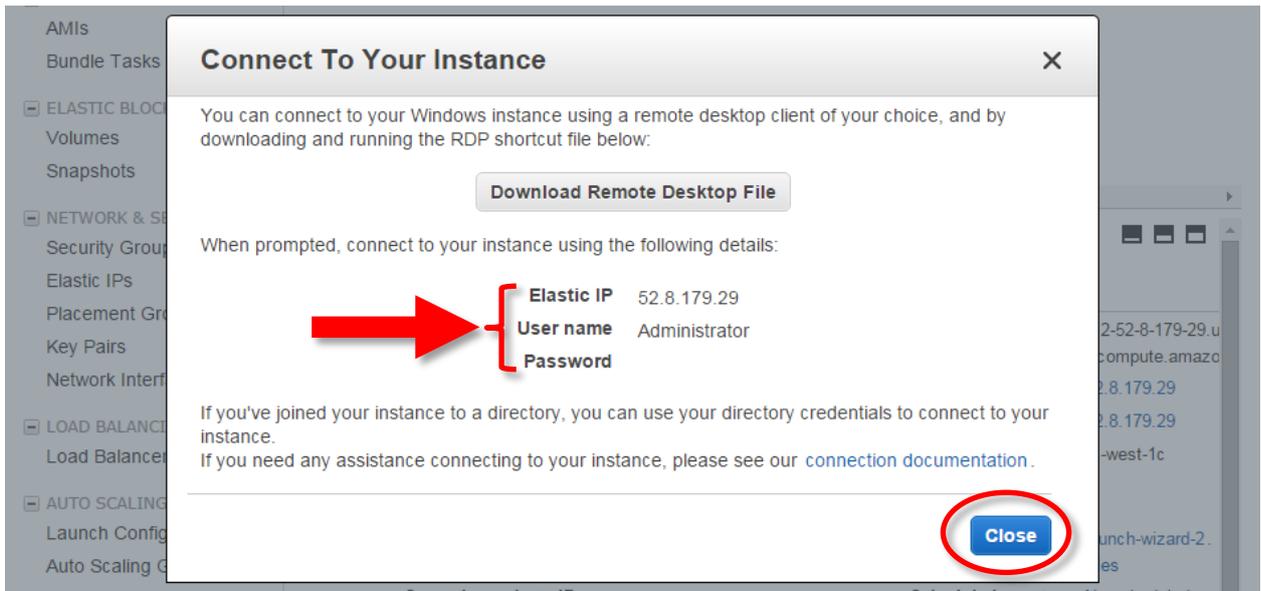


Click **Get Password**.



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**.

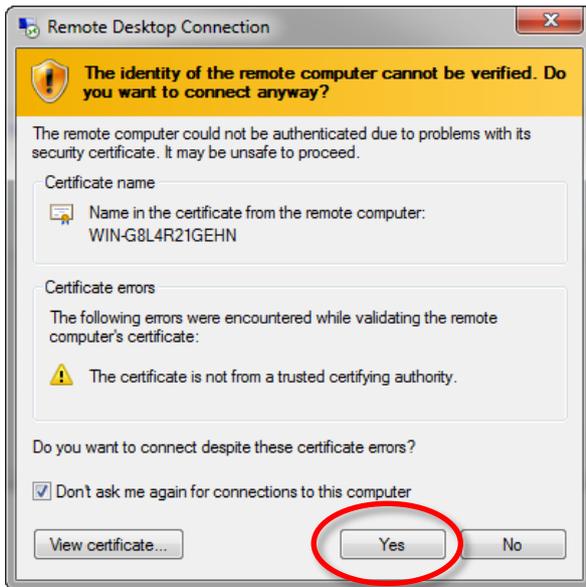
## 5. Installing CLM License Software



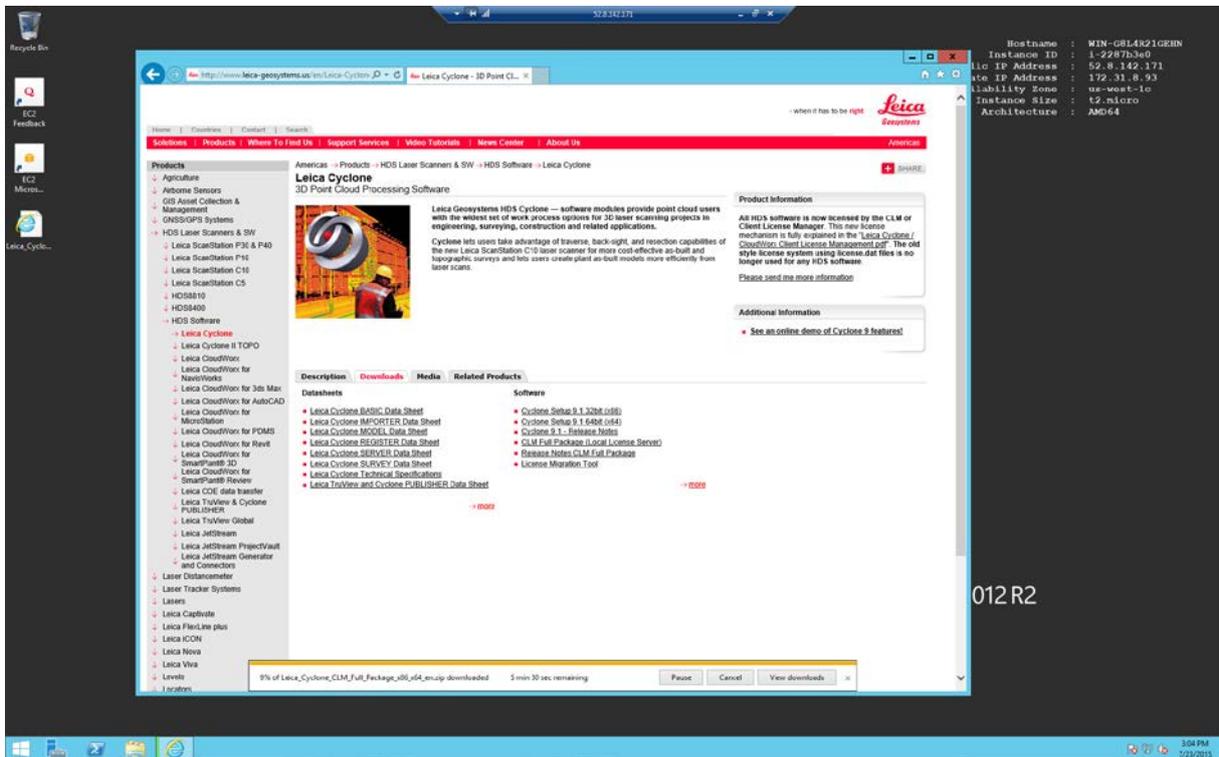
On your local PC, start Remote Desktop Connection. Enter your **IP address\Administrator**.



Click **Use another account**. Enter **IP\Administrator**. Enter **Password**.



Click **Yes**.

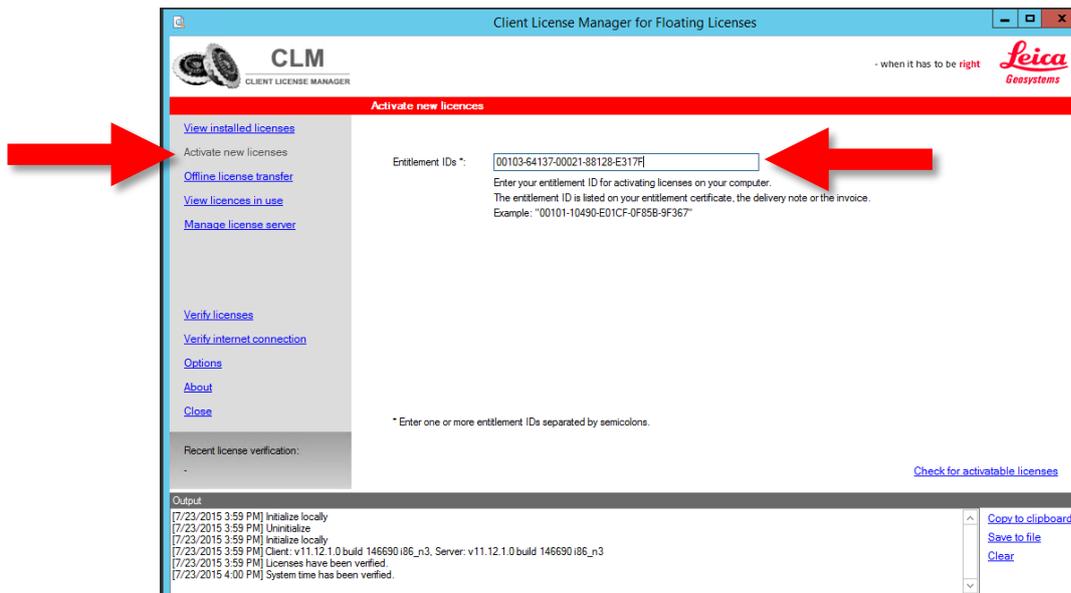


You will now be connected to your license server machine on AWS.

Go to **Cyclone Downloads** - [http://www.leica-geosystems.us/en/Leica-Cyclone\\_6515.htm](http://www.leica-geosystems.us/en/Leica-Cyclone_6515.htm)

Choose the **Downloads** tab.

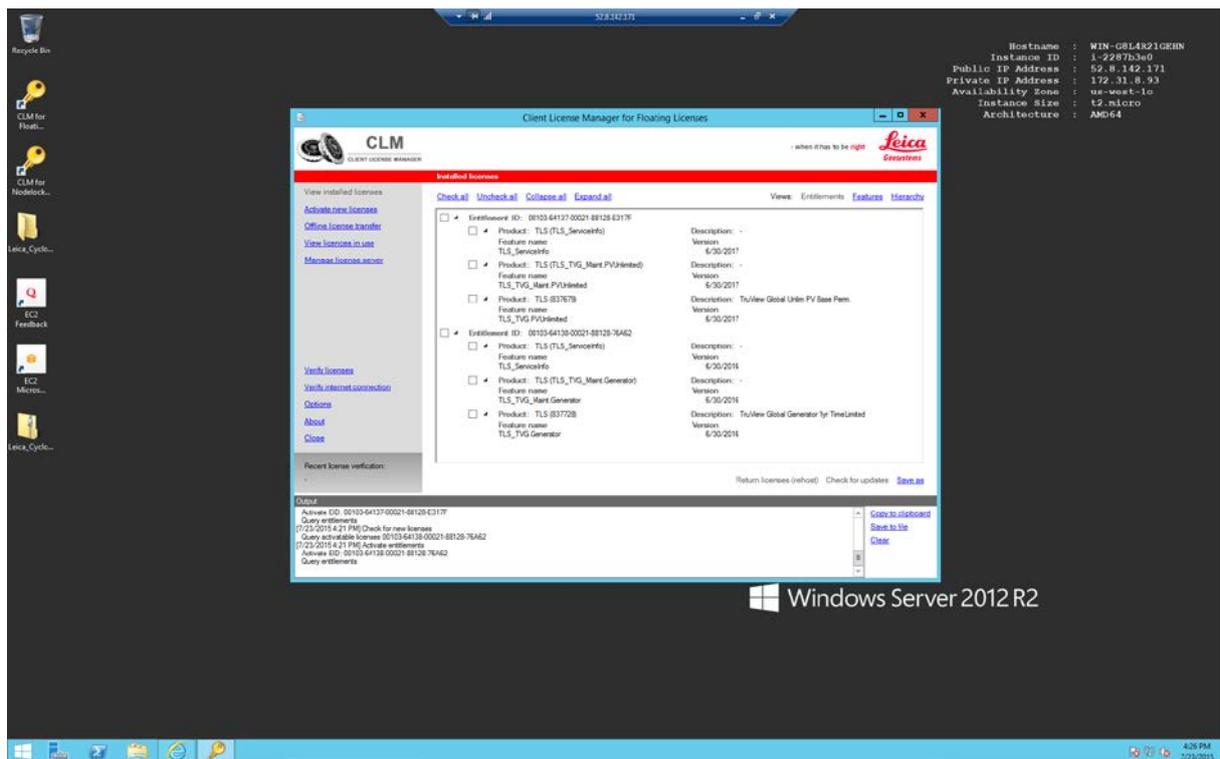
Download and Install **CLM Full Package (Local License Server)**.



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

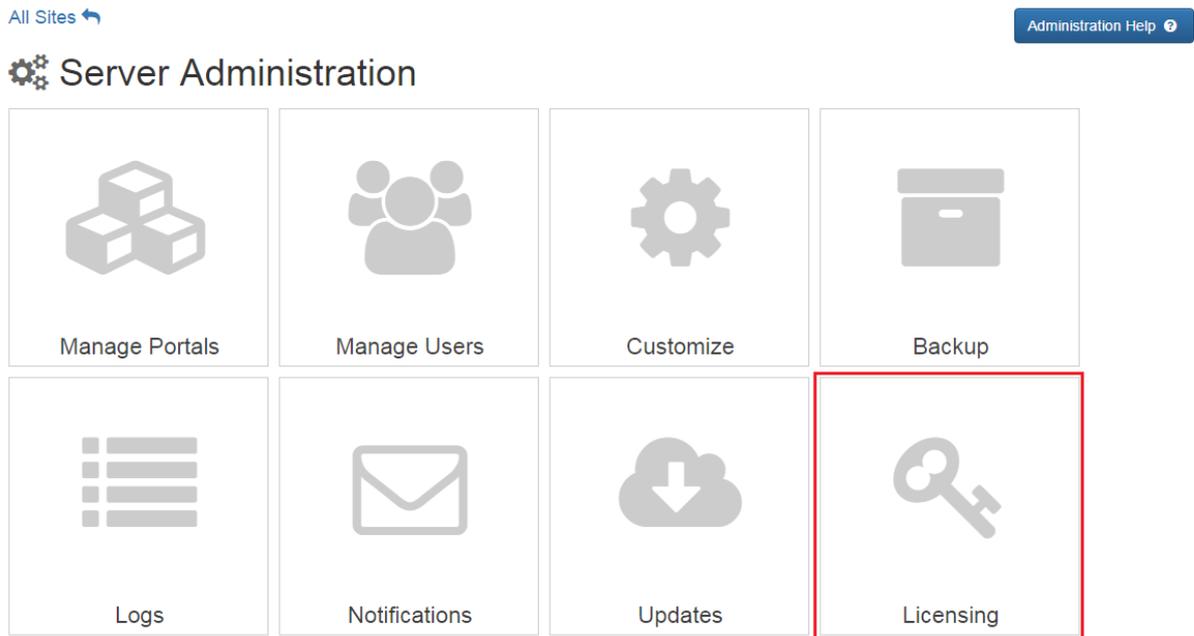
Launch your browser and open your TruView Global server IP address that you obtained on page 14. Use the default administrator username **admin** and password **admin**.

**Leica Geosystems AG**  
 Heinrich-Wild-Strasse  
 CH-9435 Heerbrugg  
 Schweiz

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

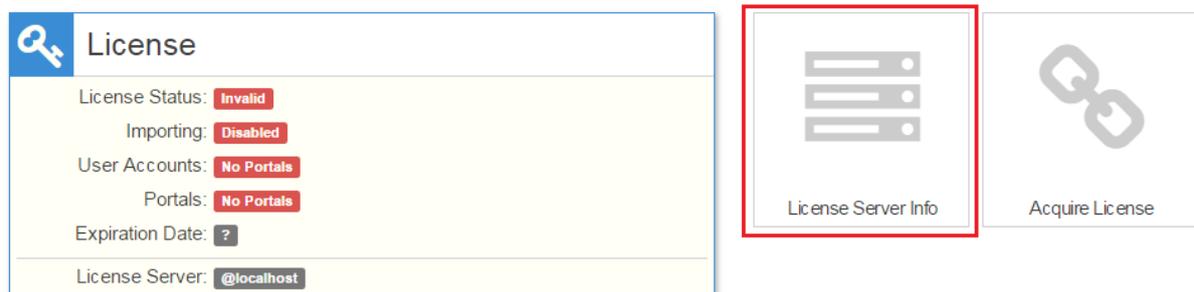


Click Licensing on the **Server Administration** page.



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

## License Management



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

The screenshot shows the 'License' management interface. On the left, a panel displays the following information: License Status: **Invalid**, Importing: **Disabled**, User Accounts: **No Portals**, Portals: **No Portals**, Expiration Date: **?**, and License Server: **@localhost**. On the right, there are two buttons: 'License Server Info' and 'Acquire License'. The 'Acquire License' button, which features a chain-link icon, is highlighted with a red rectangular border.

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.

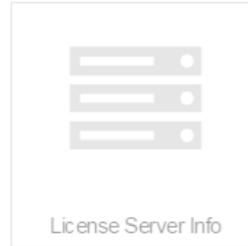
## License Management

This screenshot shows the 'License' management interface after a successful acquisition. The 'License' panel on the left now displays: License Status: **Valid**, Importing: **Enabled**, User Accounts: **Unlimited available per Portal**, Portals: **10 available**, Expiration Date: **2016.0826**, and License Server: **@qa-win81**. The 'Acquire License' button is now highlighted in blue. Below the main interface, a green success message box contains the text: '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

 **License**  
License Status: **Invalid**  
Importing: **Disabled**  
User Accounts: **No Users Allowed**  
Expiration Date: **?**  
License Server: **@127.0.0.1**



✓ **Error**

⚠ License Not Acquired or not Valid. Check the server log for more information.

## 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 connect to TruView Global server. You can download PuTTY from <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

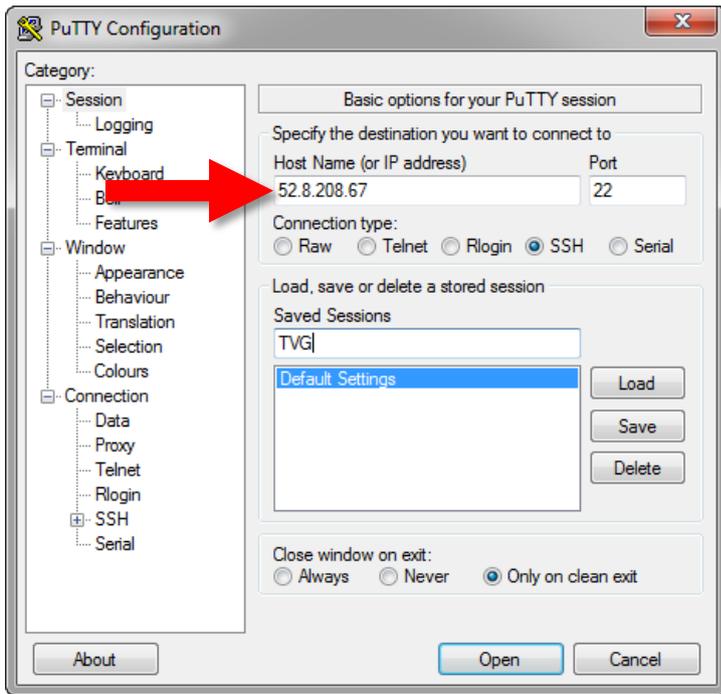
### The latest release version (beta 0.65)

This will generally be a version I think is reasonably likely to work well. If you have a problem with the release trying out the latest development snapshot (below) to see if I've already fixed the bug, before reporting it to me.

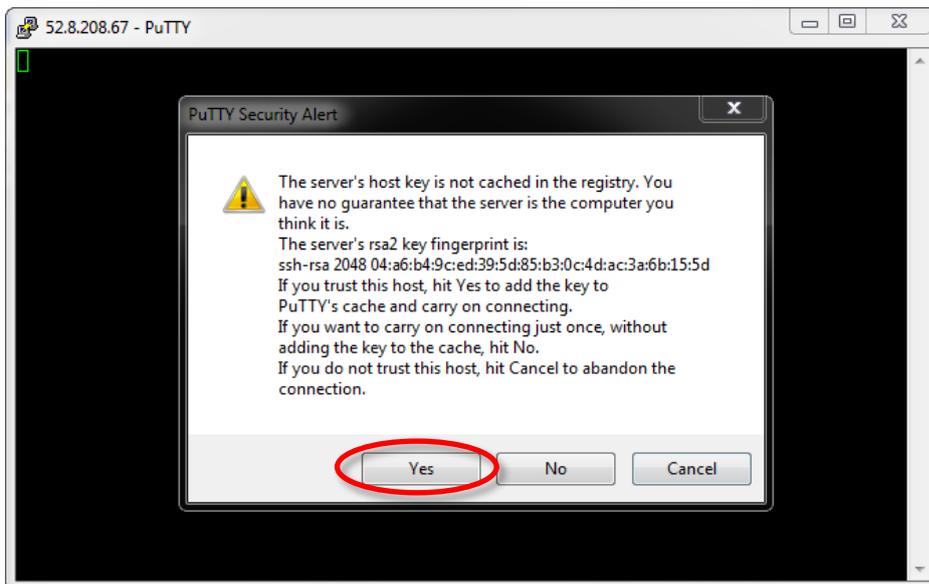
#### For Windows on Intel x86

PuTTY:	<a href="#">putty.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
PuTTYtel:	<a href="#">puttytel.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
PSCP:	<a href="#">pscp.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
DSETP:	<a href="#">pscp.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>

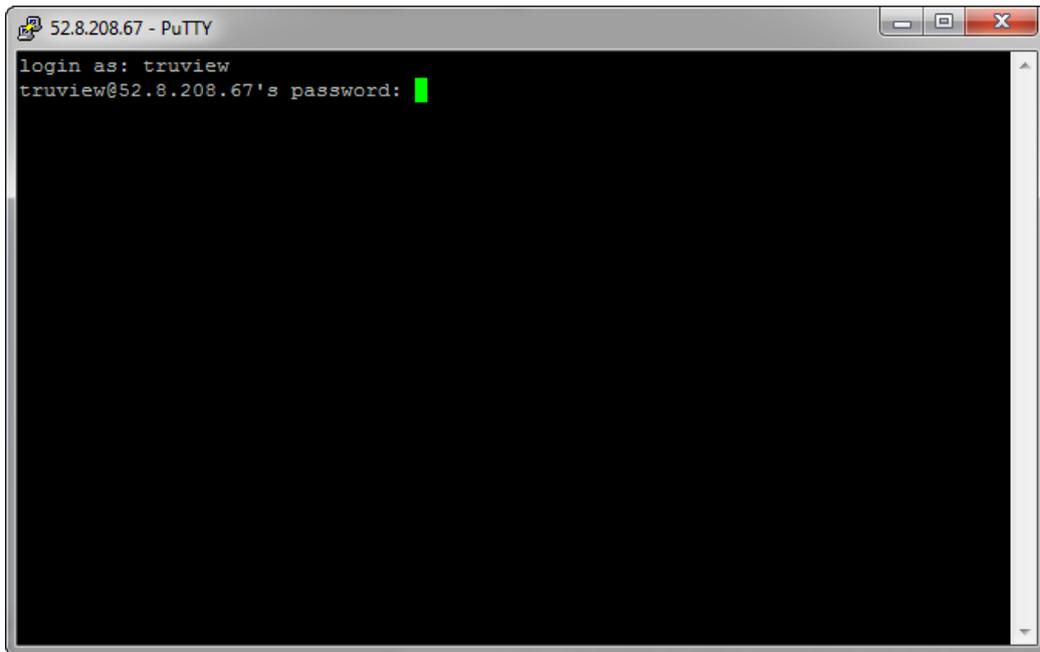
Download [putty.exe](#).



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.