

Leica Geosystems

Product **TruView Global AWS Deployment**

Date 06 August 2015

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

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1. Introduction

These steps need to be carefully followed to deploy TruView Global (TVG) to Amazon Web Service. It assumes you have some knowledge in IT.

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. If you already have a virtual computer(s) setup on AWS you may also be able to use these instructions.

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

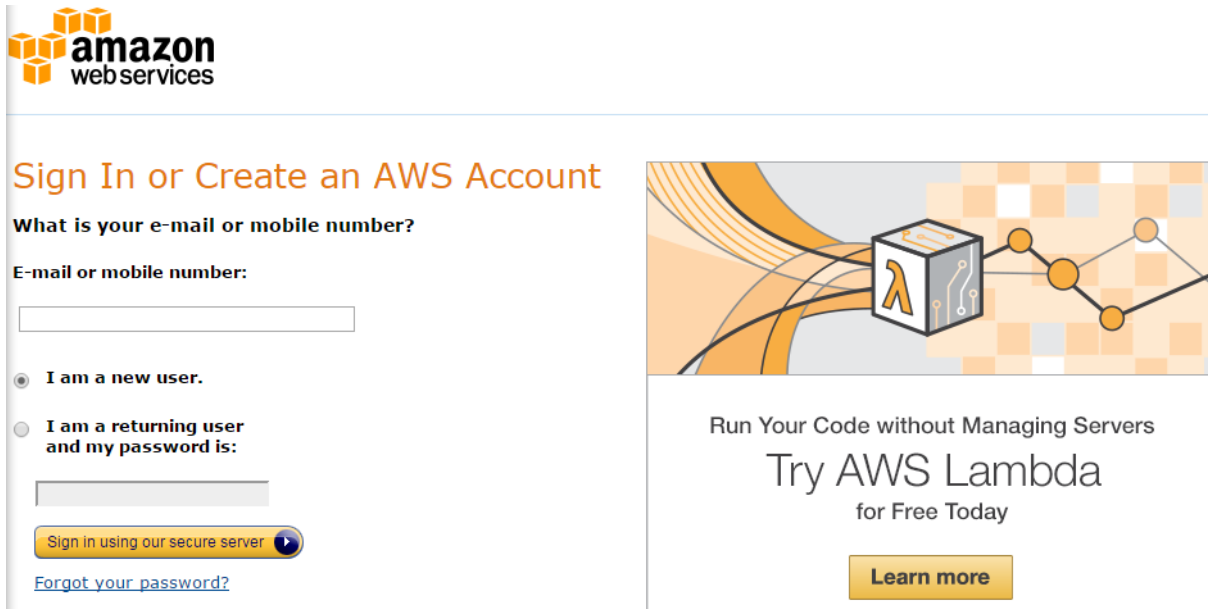
1. Creating a new Amazon account
2. Configure a virtual computer
 - a. We have provided specific choices of the size, and type of CPU, Memory, etc. that is sufficient for using TruView Global in nearly every case. If you have extreme needs, you can easily scale up this deployment if the need should arise in the future.
3. Once you have a computer configured, you will copy/clone the AMI we have preconfigured that has a working copy of 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 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**



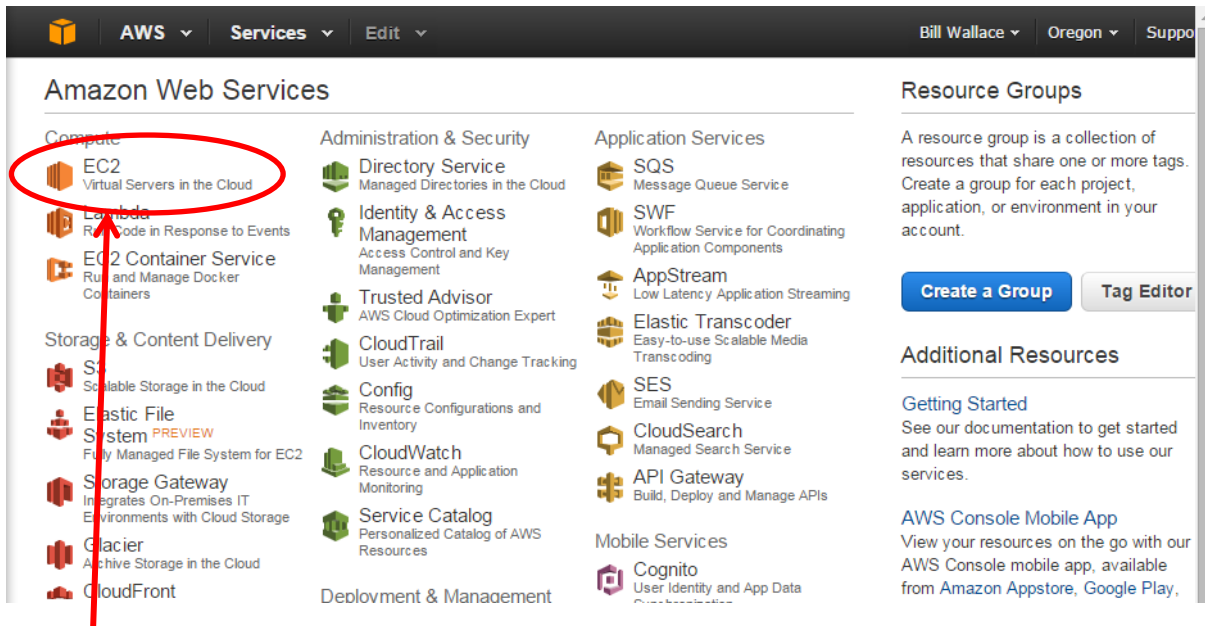
The screenshot shows the AWS website's sign-in page. At the top left is the Amazon Web Services logo. The main heading is "Sign In or Create an AWS Account". Below it, a prompt asks "What is your e-mail or mobile number?". There is a text input field for the email or mobile number. Below the input field are two radio button options: "I am a new user." (which is selected) and "I am a returning user and my password is:". Below these options is another text input field for the password. A yellow button labeled "Sign in using our secure server" is positioned below the password field. A link "Forgot your password?" is located below the sign-in button. On the right side of the page, there is a promotional banner for AWS Lambda with the text "Run Your Code without Managing Servers", "Try AWS Lambda for Free Today", and a "Learn more" button.

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.

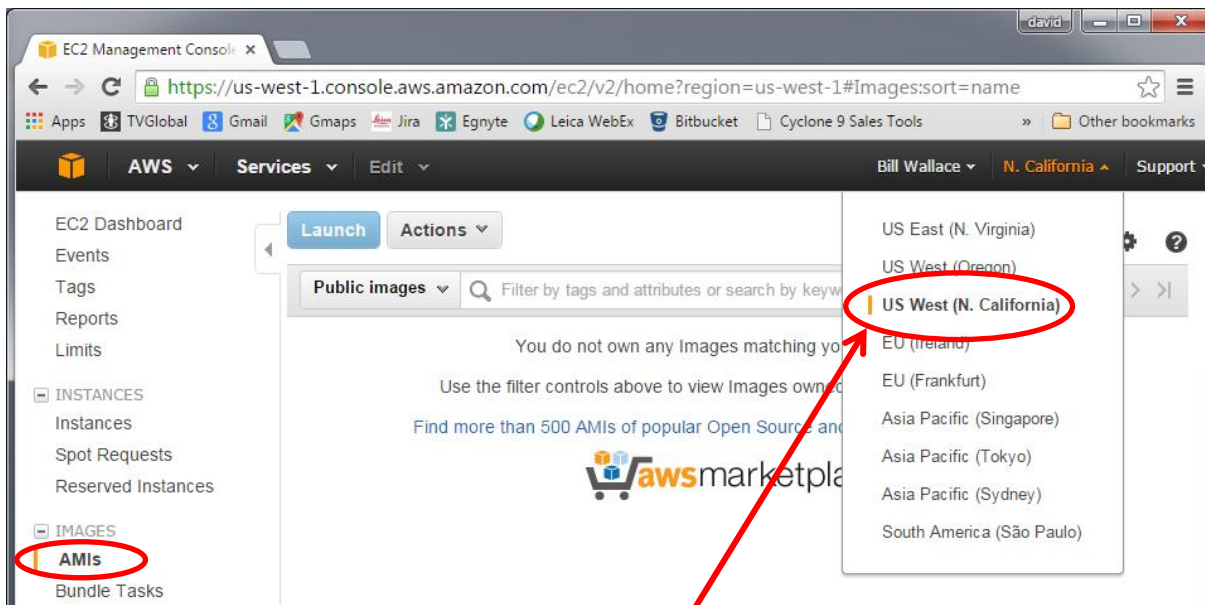


Once you have created an account, go to **My Account > AWS Management Console**. Enter your Username / Password, and sign in.

3. Creating a TruView Global Cloud Machine on AWS

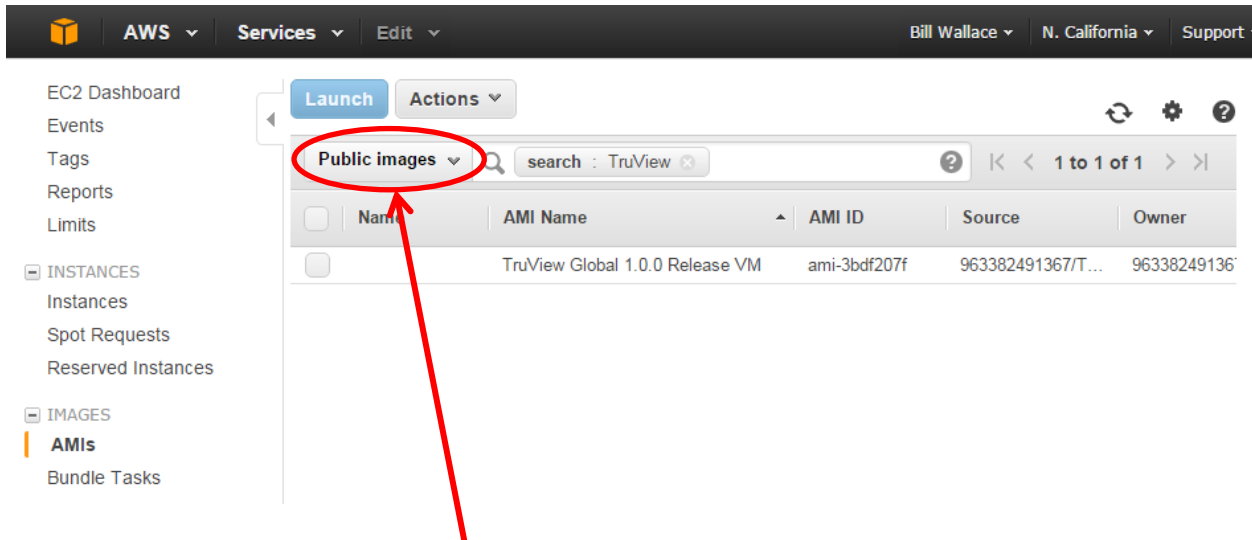


Click **EC2**



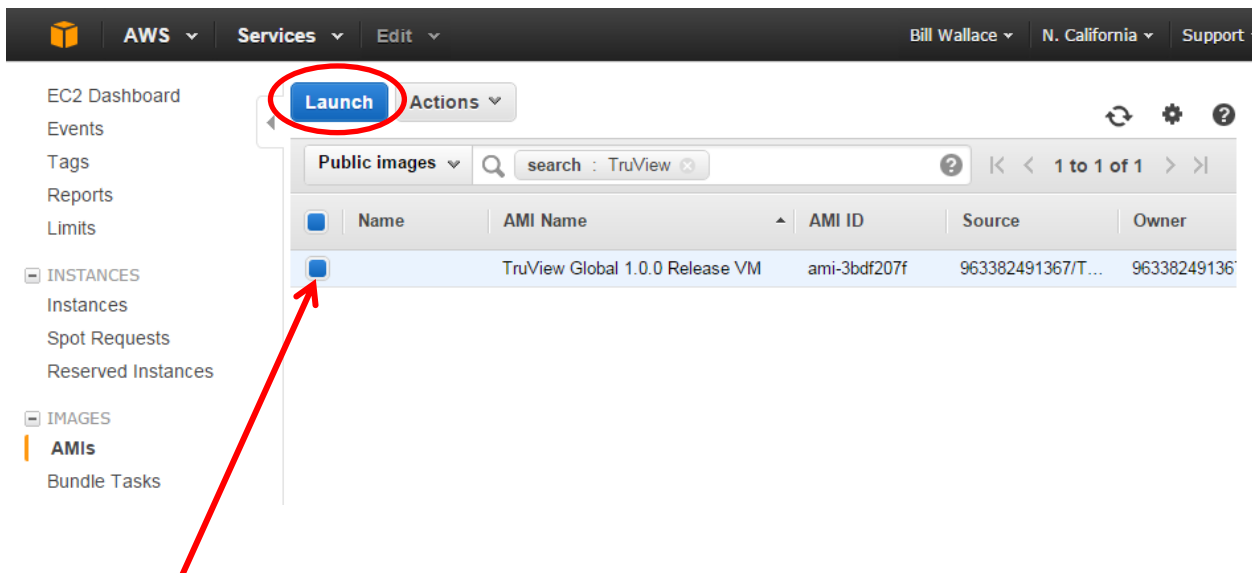
Click **AMIs** and change your region to look in **US West (N.California)**

- when it has to be **right**



Make sure you are searching in **Public images**.

Perform a search for “**TruView**” and you will see an AMI Name of **TruView Global 1.0.0 Release VM**



Select **TruView Global 1.0.0 Release VM**

Click **Launch**

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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 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 Performance
<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 C
<input type="checkbox"/>	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Mod

Cancel

Previous

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Next: Configure Instance Details

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Select **General purpose - m4.large**
Click **Next: Configure Instance Detail**


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1. Choose AMI
2. Choose Instance Type
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5. Tag Instance
6. Configure Security Group

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

1

Purchasing option

☐ Request Spot Instances

Network

vpc-7e43991b (172.31.0.0/16) (default)

Create new VPC

Subnet

No preference (default subnet in any Availability Zo

Create new subnet

Auto-assign Public IP

Use subnet setting (Enable)

Placement group

No placement group

IAM role

None

Create new IAM role

Shutdown behavior

Stop

Enable termination protection

☐ Protect against accidental termination

Monitoring

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

EBS-optimized instance

☒ Launch as EBS-optimized instance

Tenancy

Shared tenancy (multi-tenant hardware)

Additional charges will apply for dedicated tenancy.

Advanced Details

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

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1. Choose AMI

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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	snap-276d07e3	80	General Purpose (SSD)	240 / 3000	<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.

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Next: Tag Instance

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TruView Global has a minimum storage size of 80GB. Set the storage size to a **minimum of 80GB**
Click **Next: Tag Instance**

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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 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**

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:

Description:

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere
Custom TCP Rule	TCP	9000	Anywhere
Custom UDP Rule	UDP	9000	Anywhere
Custom ICMP Rule	Echo Reply	N/A	Anywhere
Custom TCP Rule	TCP	27000-27100	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](#)


Add 4 new 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 machine in your office, you can open the appropriate ports (27000 – 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.

If you do plan to run CLM from a server machine in your office **Edit:** Custom TCP Rule above to Port Range: 27000-27010, Source: Anywhere

In addition to the all the rules above, **Add:** Custom UDP Rule – Port Range: 27000-27010, Source: Anywhere

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1. Choose AMI

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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](#)

 **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

 **TruView Global 1.0.0 Release VM - ami-3bdf207f**
TruView Global 1.0.0
Root Device Type: ebs Virtualization type: hvm

[Edit AMI](#)

▼ 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

[Edit instance type](#)

▼ Security Groups

Security group name launch-wizard-1


Description launch-wizard-1 created 2015-08-06T07:16:38.428-07:00


Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ
SSH	TCP	22	0.0.0.0/0
Custom TCP Rule	TCP	9000	0.0.0.0/0
Custom UDP Rule	UDP	9000	0.0.0.0/0
Custom ICMP Rule	Echo Reply	N/A	0.0.0.0/0

[Cancel](#)

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[Launch](#)

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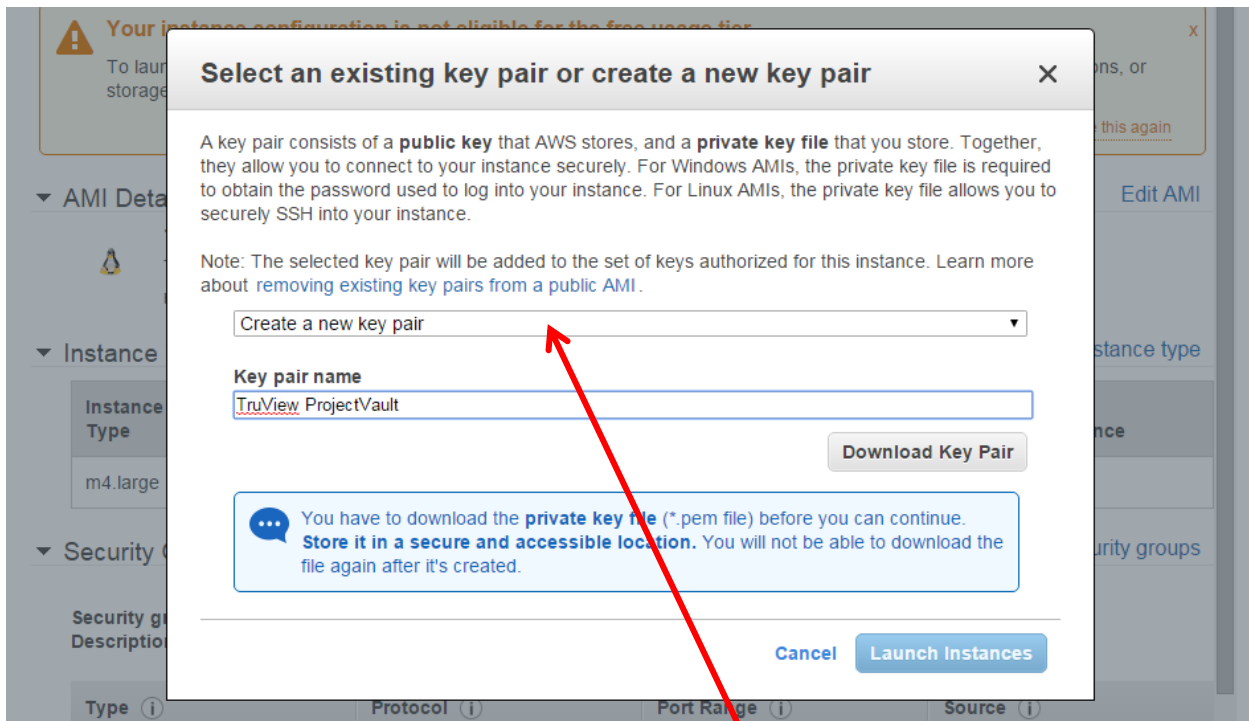
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Click **Launch**

- when it has to be **right**



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**

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)

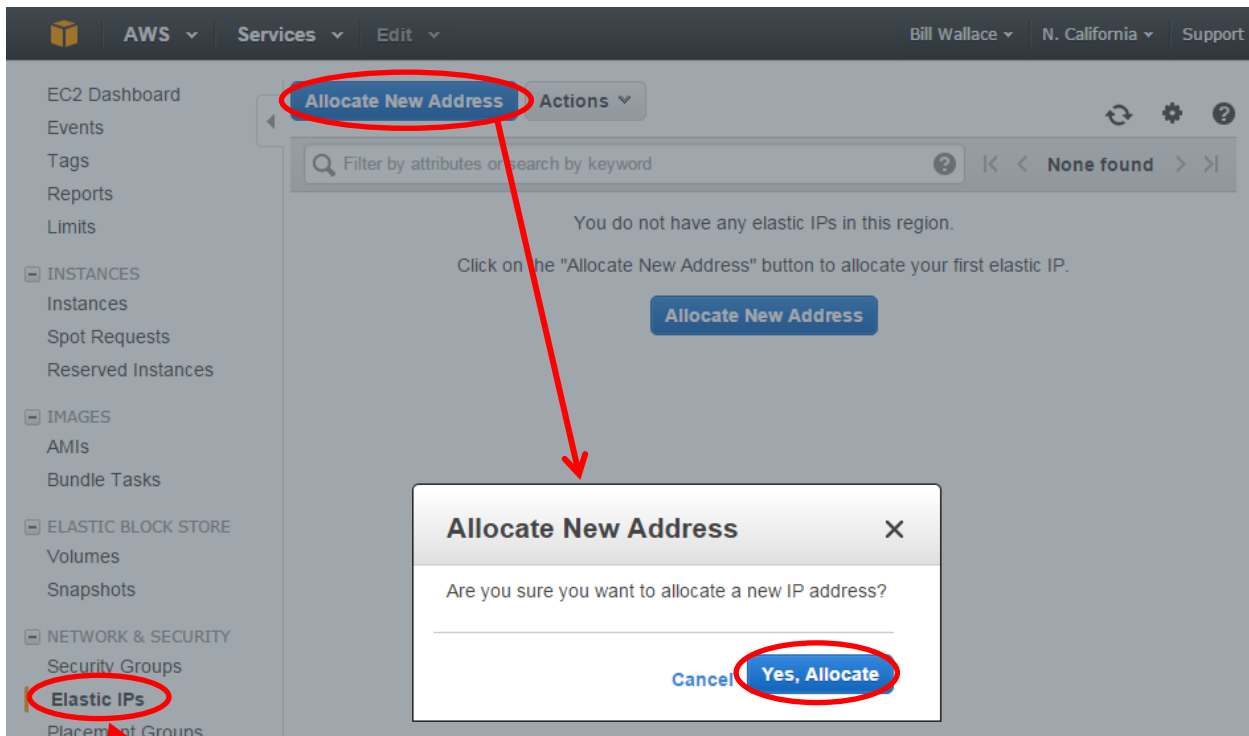
[Create and attach additional EBS volumes](#) (Additional charges may apply)

[Manage security groups](#)

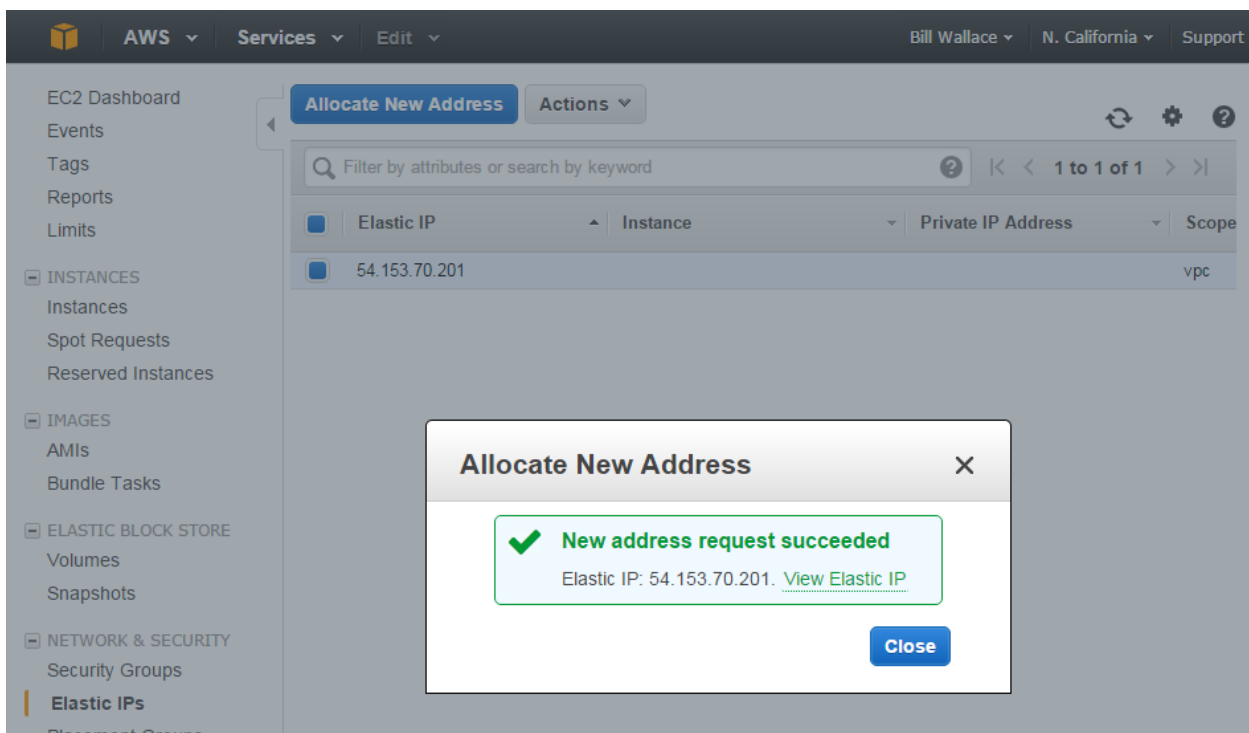
View Instances

You will now see Launch Status
Click **View Instance**

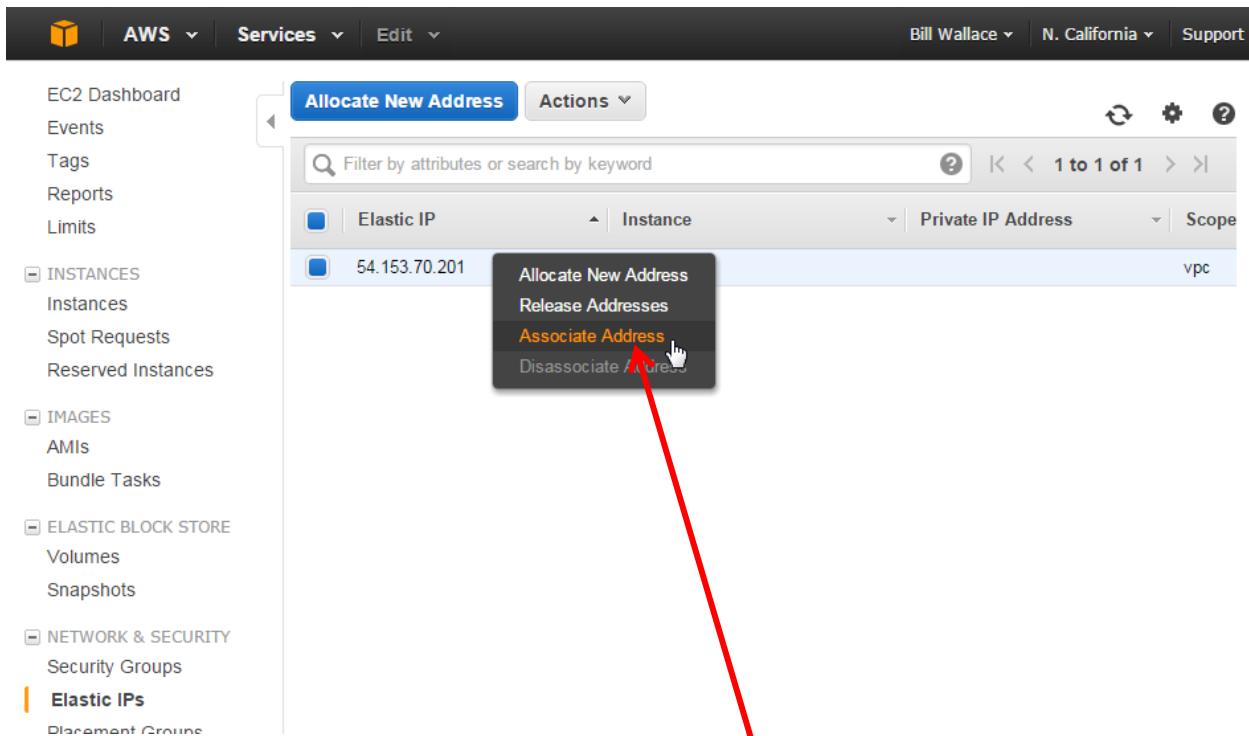
- when it has to be **right**



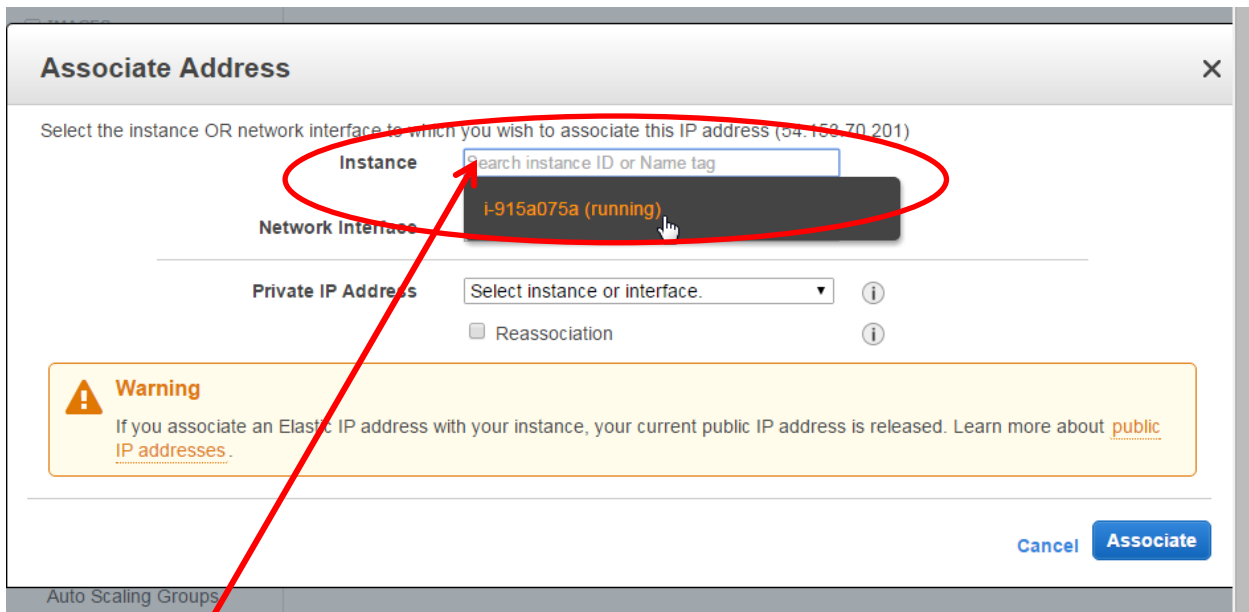
Go to **Elastic IPs**
Click **Allocate New Address**
Click **Yes, Allocate** in the dialog



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



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

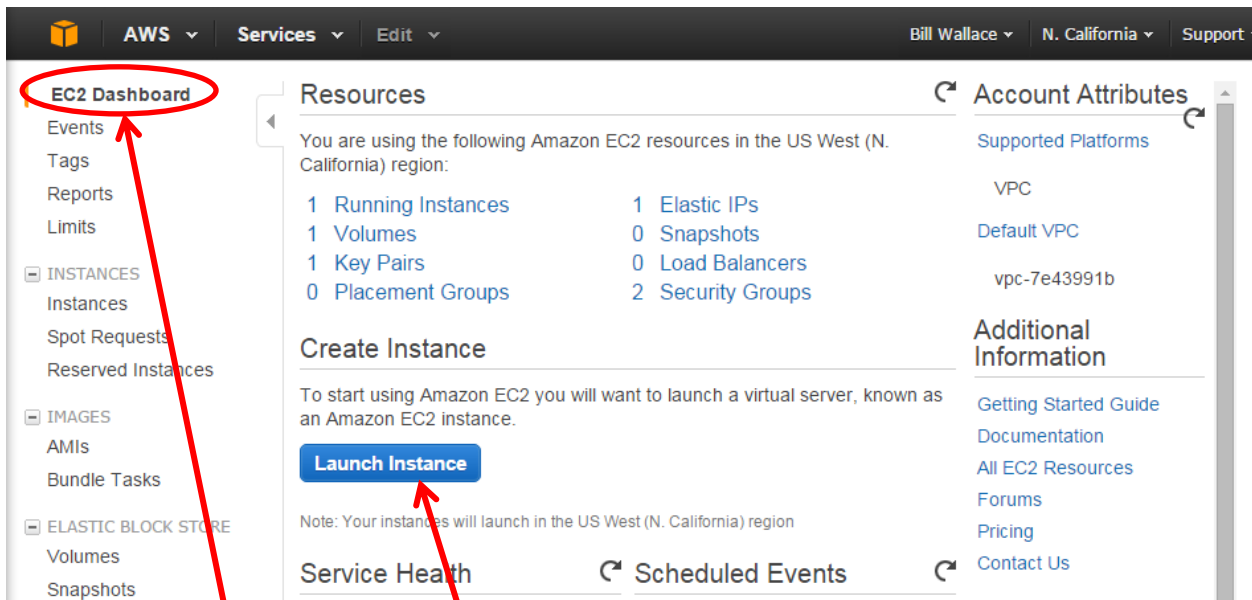


Click in the **Instance** box, and you should see the one instance, or VM that was just created.
Select that Instance/VM and click **Associate**
Your TruView Global ProjectVault is now running.

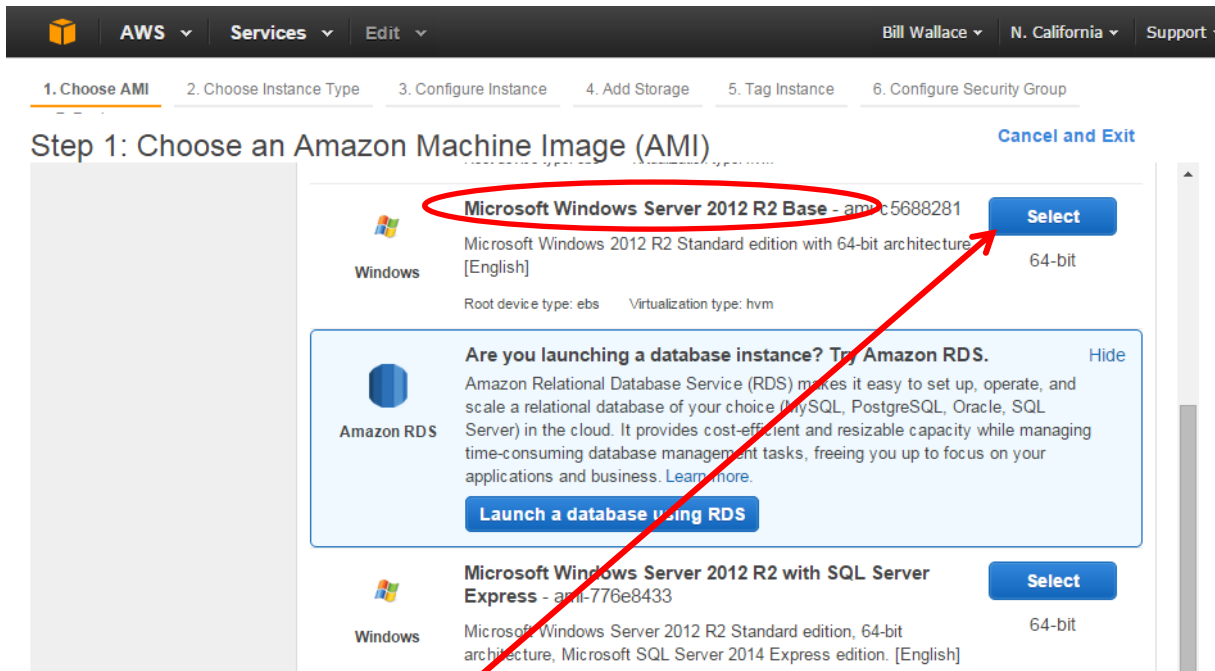
4. Creating a CLM Cloud Machine on AWS

CLM license manager requires a Windows machine to license TruView Global. This next section creates a Windows server on AWS, giving the ability to activate your TVG EIDs, and connect to the TVG ProjectVault.

NOTE: If you have CLM already running on a server machine in your office, you can open the appropriate ports (27000 – 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**

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1. Choose AMI
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5. Tag Instance
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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	Network Performance
<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	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	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 C
<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

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Select **General purpose t2 micro**

Click **Next: Configure Instance Details**

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6. Configure Security Group

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

1

Purchasing option

☐ Request Spot Instances

Network

vpc-7e43991b (172.31.0.0/16) (default)

Create new VPC

Subnet

No preference (default subnet in any Availability Zo

Create new subnet

Auto-assign Public IP

Use subnet setting (Enable)

IAM role

None

Create new IAM role

Shutdown behavior

Stop

Enable termination protection

☐ Protect against accidental termination

Monitoring

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

Tenancy

Shared tenancy (multi-tenant hardware)

Additional charges will apply for dedicated tenancy.

Advanced Details

Cancel

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

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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	snap-3ea7b01a	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](#)

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

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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 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)

Name

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 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 0.0.0.0/0
Custom TCP Rule	TCP	27000-27100	Anywhere 0.0.0.0/0
Custom ICMP Rule	Echo Reply	N/A	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.

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**

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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

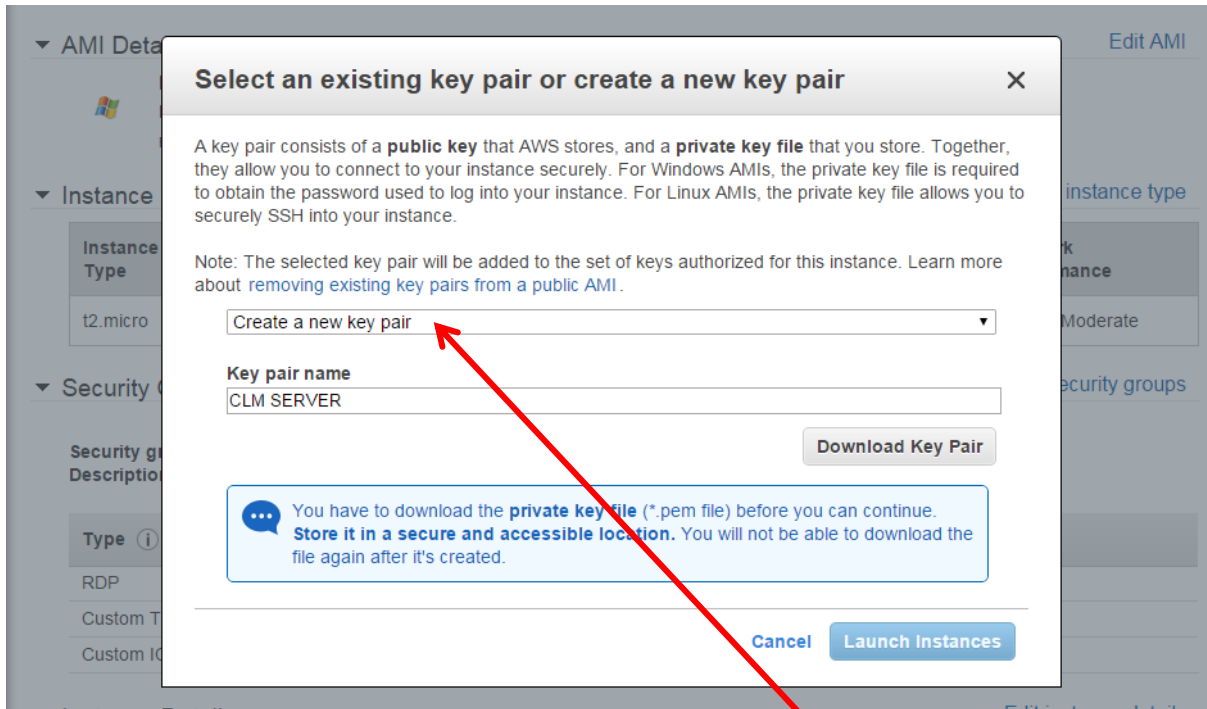
▶
Storage
Edit storage

▶
Tags
Edit tags

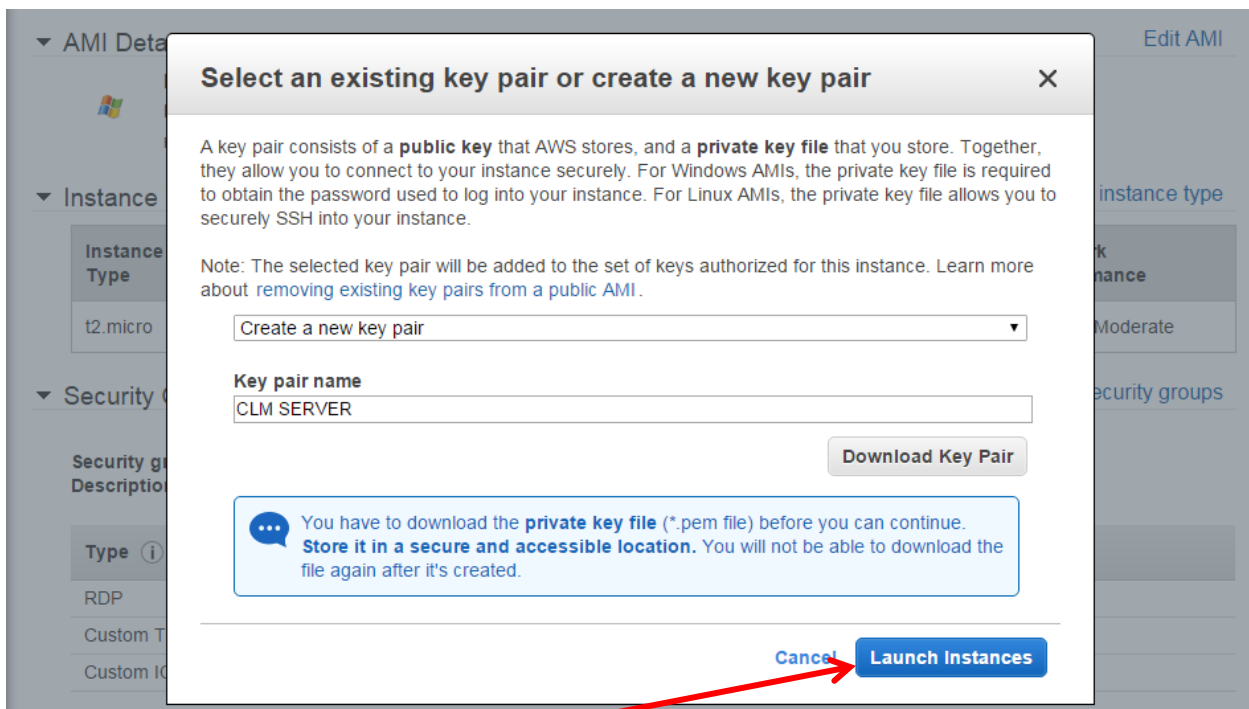
Cancel
Previous
Launch

Feedback
English
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Terms of Use


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**




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

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

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](#)

View Instances

 **Feedback**  **English** © 2008 - 2015 Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

Take note of the Instance name
Click **View Instance**

- when it has to be **right**

EC2 Dashboard
Events
Tags
Reports
Limits

INSTANCES

- Instances
- Spot Requests
- Reserved Instances

IMAGES

- AMIs
- Bundle Tasks

ELASTIC BLOCK STORE

- Volumes
- Snapshots

NETWORK & SECURITY

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status
CLM Server	i-d96c791b	t2.micro	us-west-1c	running	In
TVG ProjectVault	i-915a075a	m4.large	us-west-1a	running	2/2

Select an instance above

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.

EC2 Dashboard
Events
Tags
Reports
Limits

INSTANCES

- Instances
- Spot Requests
- Reserved Instances

IMAGES

- AMIs
- Bundle Tasks

ELASTIC BLOCK STORE

- Volumes
- Snapshots

NETWORK & SECURITY

- Security Groups
- Elastic IPs
- Placement Groups

Allocate New Address Actions

Filter by attributes or search by keyword

Elastic IP	Instance	Private IP Address	Scope
54.153.70.201	i-915a075a (TVG ProjectVault)	172.31.21.74	vpc-7e

Allocate New Address X

Are you sure you want to allocate a new IP address?

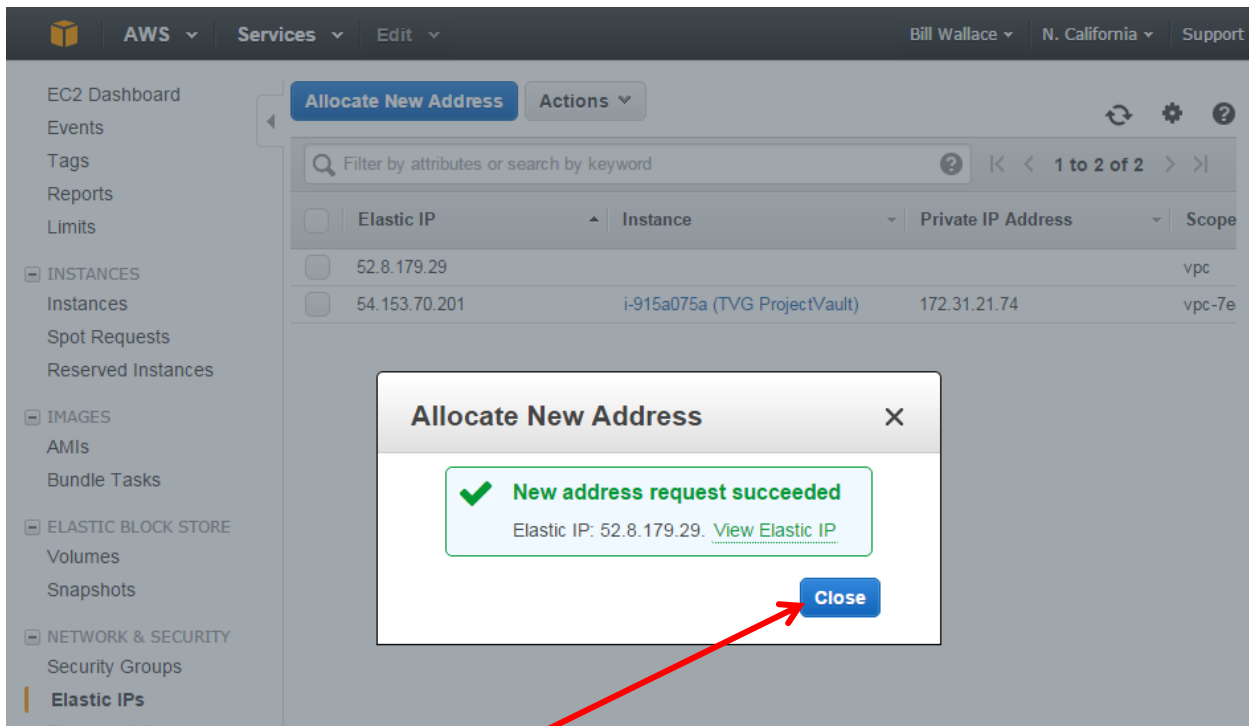
Cancel Yes, Allocate

Go to **Elastic IPs**

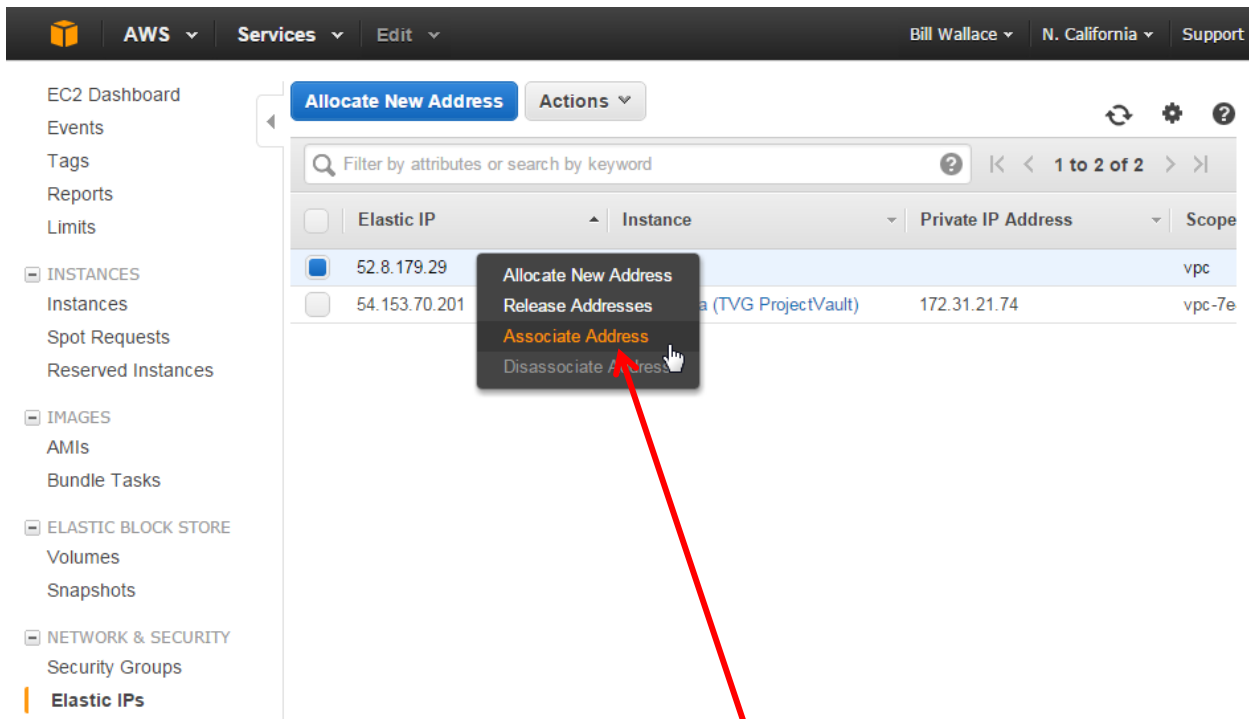
Click **Allocate New Address**

Click **Yes, Allocate** in the dialog

- when it has to be **right**



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



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

Associate Address

Select the instance OR network interface to which you wish to associate this IP address (52.8.179.29)

Instance Search instance ID or Name tag

Network Interface

Private IP Address Select instance or interface. ⓘ

☐ Reassociation ⓘ

Warning
If you associate an Elastic IP address with your instance, your current public IP address is released. Learn more about [public IP addresses](#).

Cancel Associate

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**

AWS Services Edit Bill Wallace N. California Support

EC2 Dashboard
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INSTANCES
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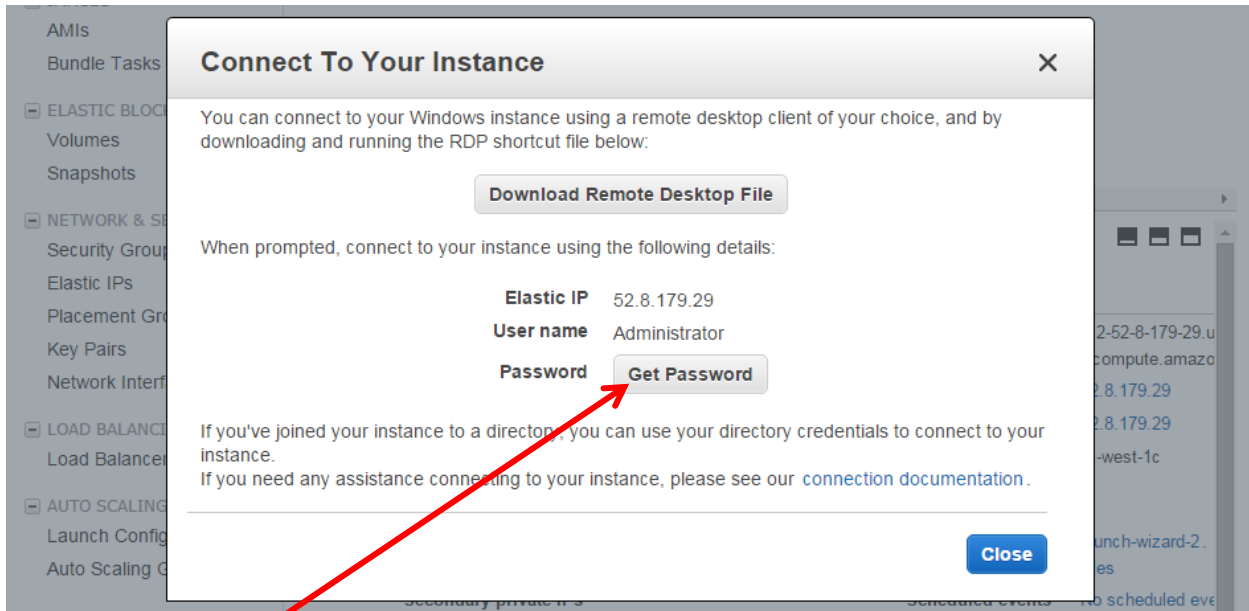
Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

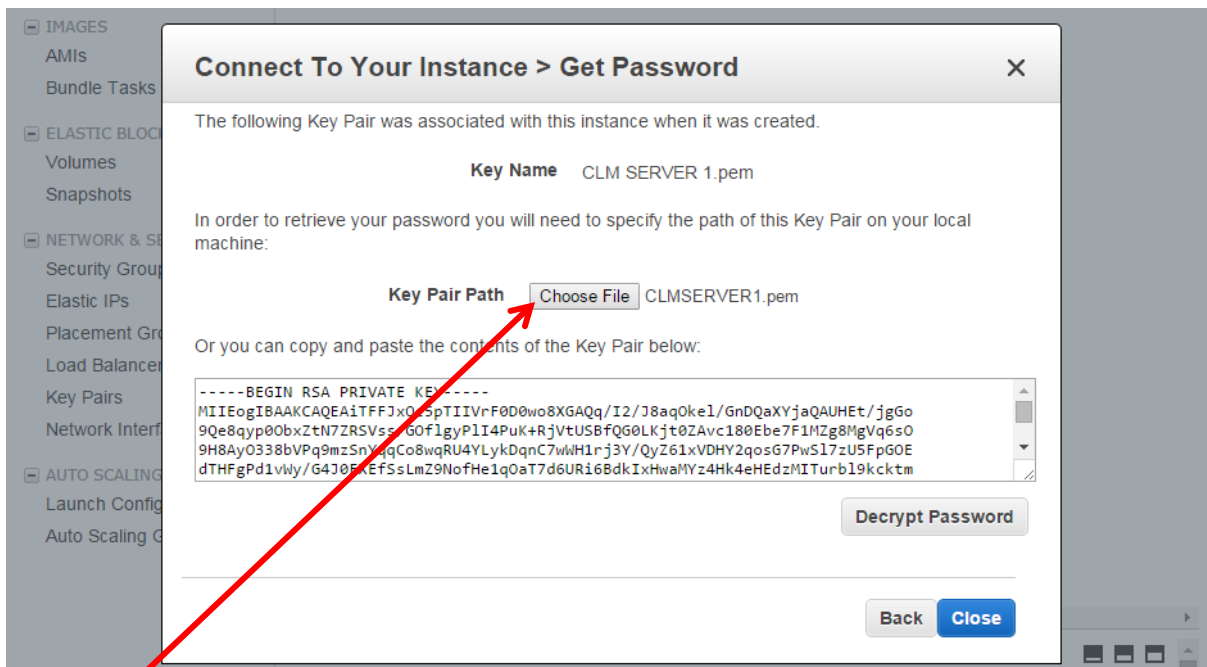
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status
CLM Server	i-d96c791b	t2.micro	us-east-1c	running	2/2
TVG ProjectVault	i-915a075a	t2.micro	us-east-1a	running	2/2

Connect
Get Windows Password
Launch More Like This
Instance State
Instance Settings
Image
Networking
CloudWatch Monitoring

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

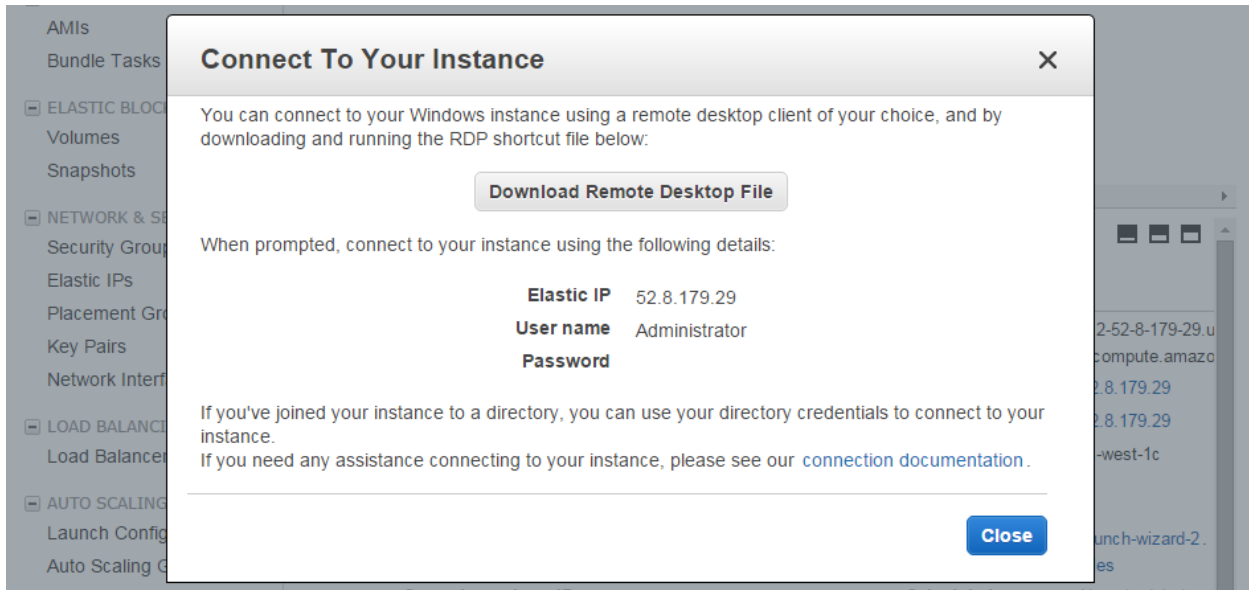


Click **Get Password**



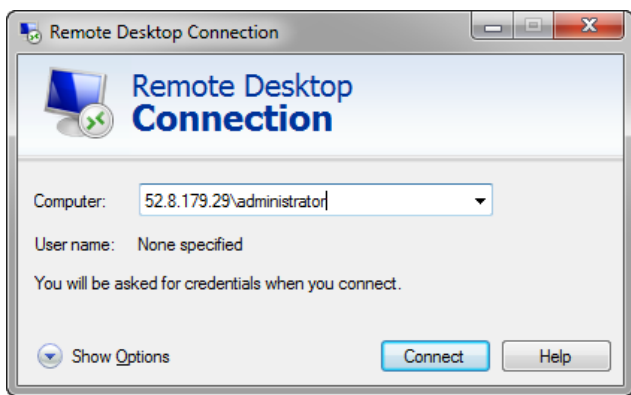
Click **Choose File** and browse to the file that was downloaded on pg 22

Click **Decrypt Password**

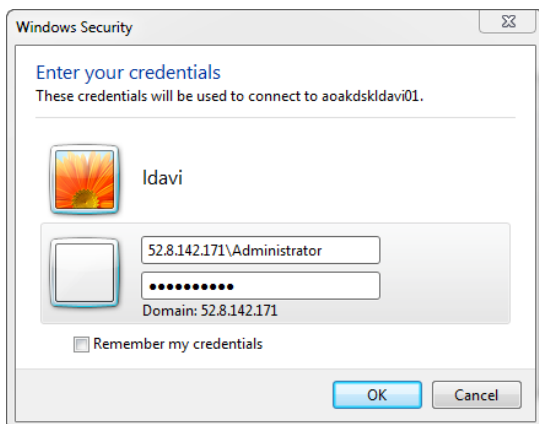


Take note of **IP**, **User Name**, and **Password** that was just created
Click **Close**

5. Licensing CLM Server

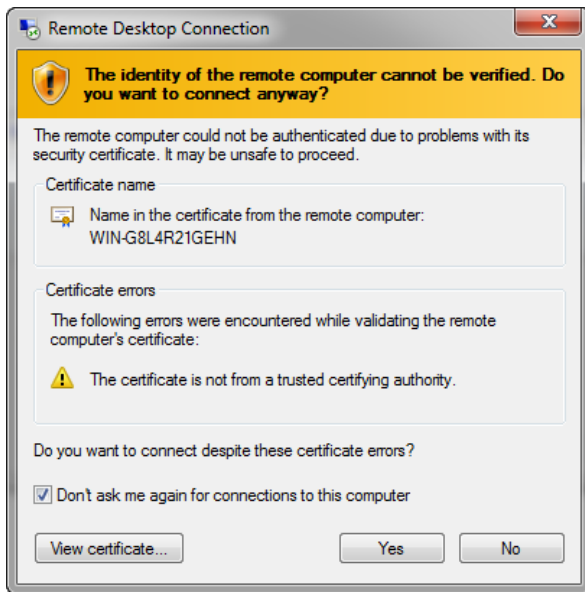


On your local PC, start Remote Desktop Connection
Enter your **IP\Administrator**

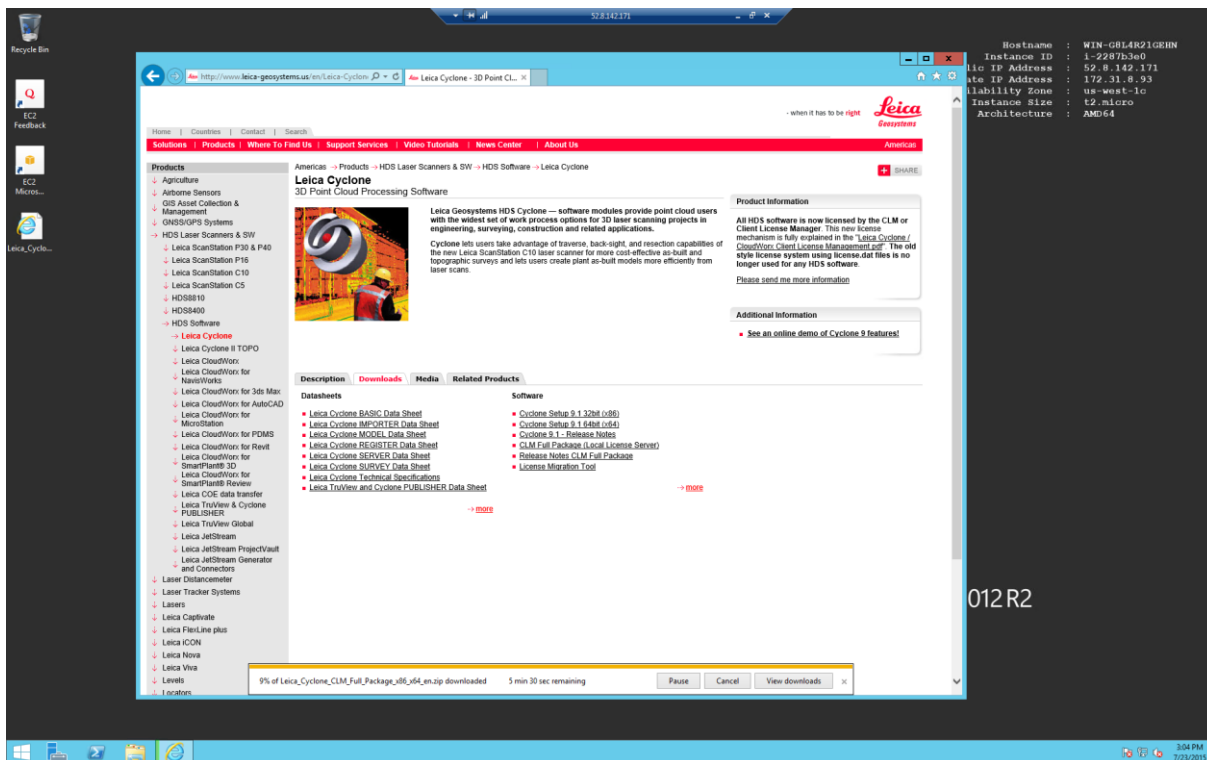


Click Use another account
Enter **IP\Administrator**
Enter **Password**

- when it has to be **right**



Click **Yes**

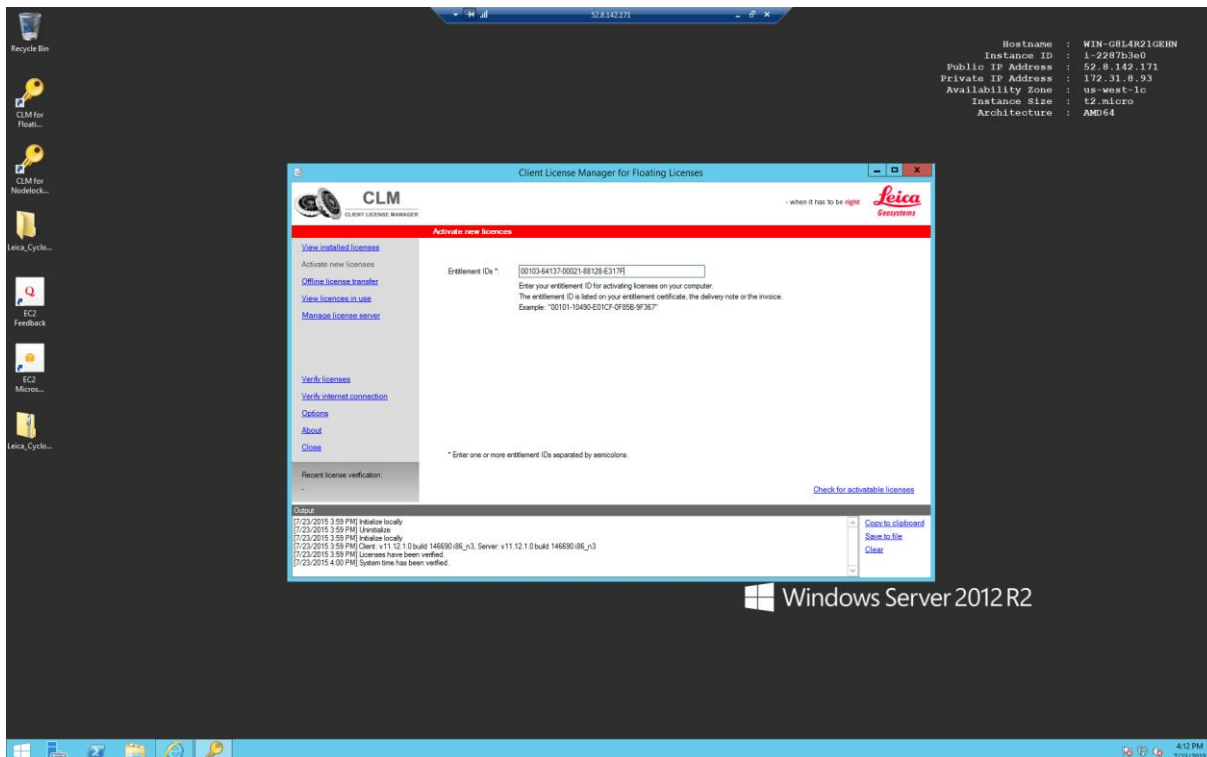


You will now be connected to your CLM machine on AWS

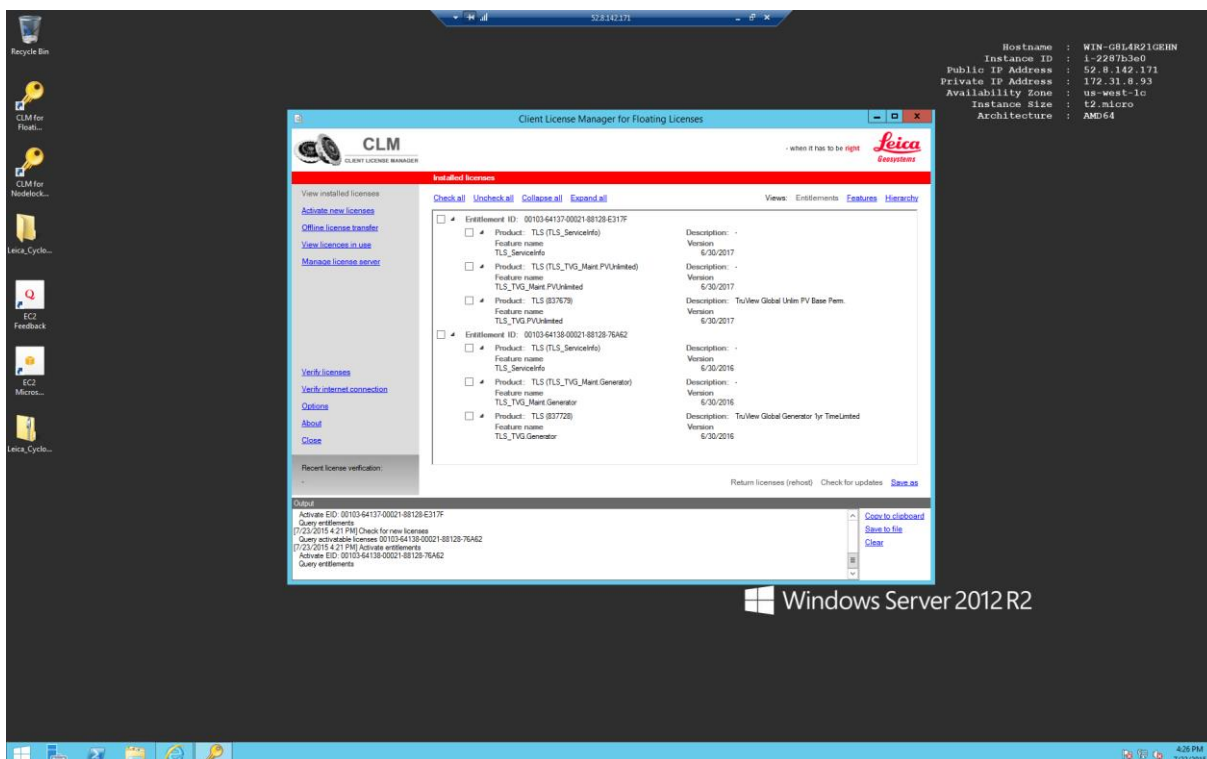
Go to **Cyclone Downloads** - http://www.leica-geosystems.us/en/Leica-Cyclone_6515.htm

Download and Install **CLM Full Package**

- when it has to be **right**



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



CLM Machine and Licenses are now configured.

6. Configure TVG Server to CLM Server

Before continuing, please check that valid TruView Global EIDs have been activated on your Leica CLM License Server system from section 4 above. Contact Leica support to obtain TruView Global EIDs if you haven't received them.

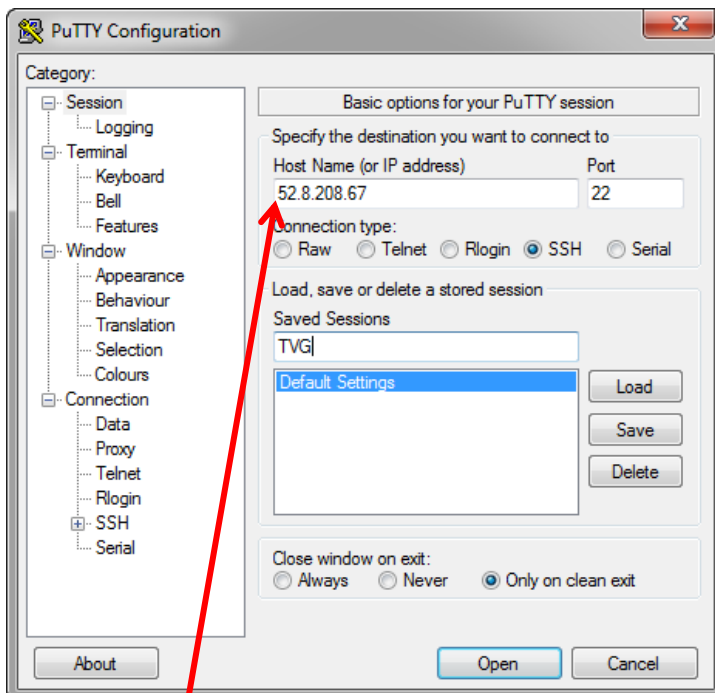
The latest release version (beta 0.65)

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:	putty.exe	(or by FTP)	(RSA sig)	(DSA sig)
PuTTYtel:	puttytel.exe	(or by FTP)	(RSA sig)	(DSA sig)
PSCP:	pscp.exe	(or by FTP)	(RSA sig)	(DSA sig)
PSETP:	psftp.exe	(or by FTP)	(RSA sig)	(DSA sig)

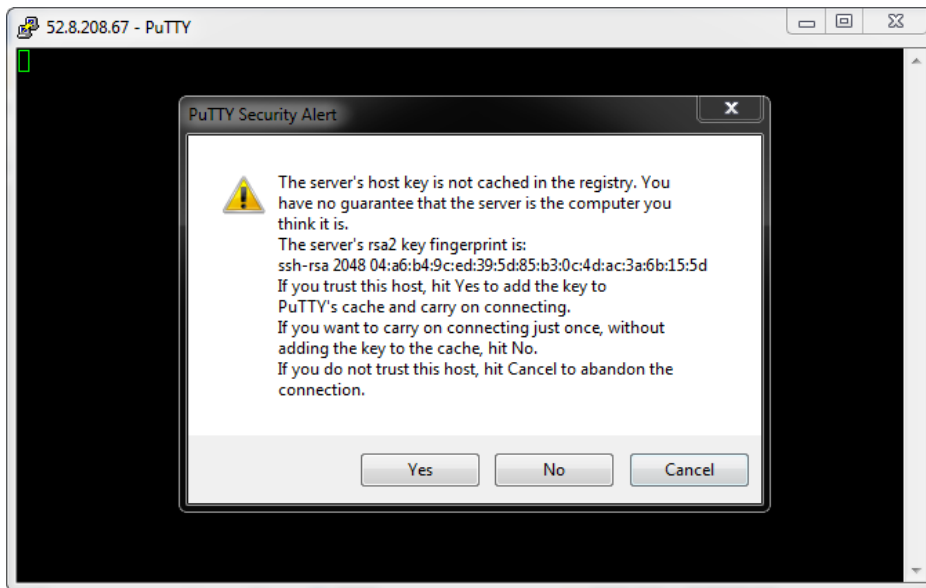
Download PuTTY, which is an interface to connect to TruView Global's Linux box. The exe can be found on the following page: <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>



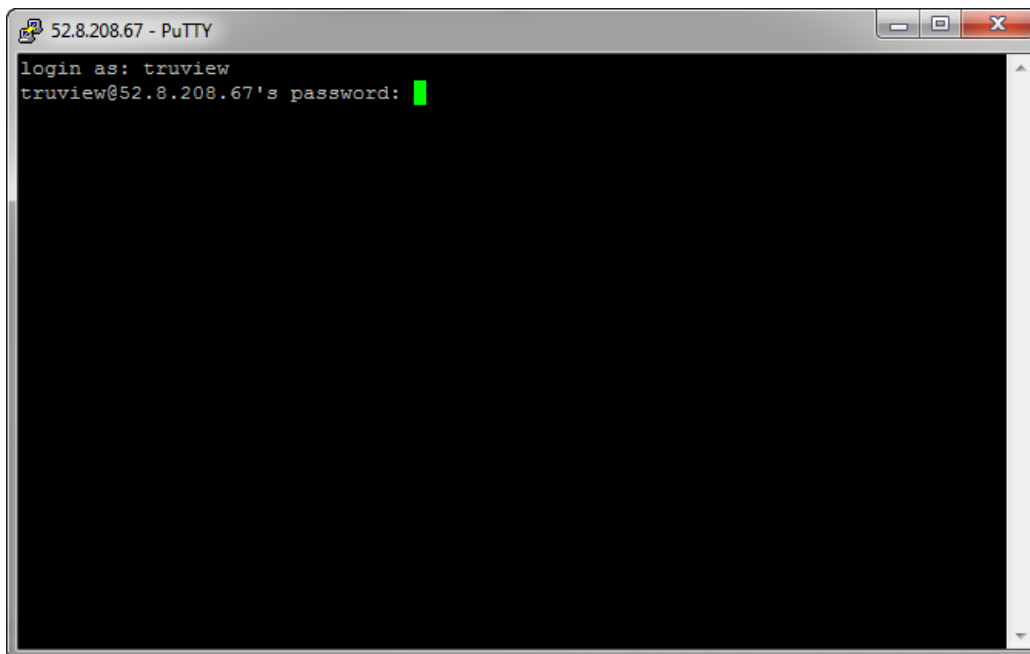
Run PuTTY

Enter the IP Address of TruView Global from AWS. You can Name and Save the Session so you will not have to remember the IP address.

- when it has to be **right**



Click **Yes**



Enter the login: **truvview**

Enter password: **labolg01**

- when it has to be **right**

```
truvieu@truvieuglobal: ~  
login as: truvieu  
truvieu@52.8.208.67's password:  
Welcome to Ubuntu 14.04.2 LTS (GNU/Linux 3.16.0-30-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com/  
  
System information as of Wed Aug  5 10:54:13 PDT 2015  
  
System load:  0.0           Processes:            127  
Usage of /:   7.8% of 76.38GB Users logged in:       1  
Memory usage: 5%           IP address for eth0: 172.31.21.42  
Swap usage:   0%  
  
Graph this data and manage this system at:  
https://landscape.canonical.com/  
  
120 packages can be updated.  
64 updates are security updates.  
  
Last login: Wed Aug  5 10:50:42 2015 from 216.85.0.50  
truvieu@truvieuglobal:~$ ./setlicense_server.sh  
-bash: ./setlicense_server.sh: No such file or directory  
truvieu@truvieuglobal:~$ ./set_license_server.sh
```

Type **./set_license_server.sh** and hit enter

The screenshot shows the AWS Management Console interface. On the left, the navigation menu is visible with 'Instances' highlighted. The main content area shows a list of EC2 instances. A red arrow points to the 'CLM Server' instance. Below the list, the details for the 'CLM Server' instance are displayed, including its ID (i-2287b3e0), type (t2.micro), and state (running). The 'Public IP' is circled in red and is 52.8.142.171.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks
CLM Server	i-2287b3e0	t2.micro	us-west-1c	running	2/2 checks...
TVG ProjectVault	i-ae521465	m4.large	us-west-1a	running	2/2 checks...

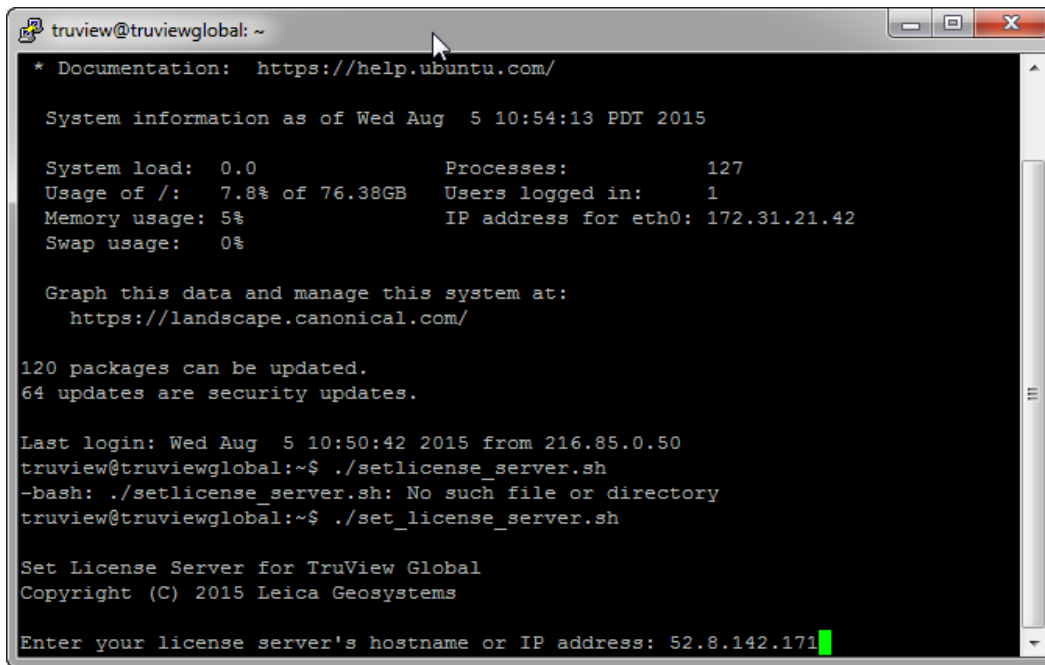
Instance: **i-2287b3e0 (CLM Server)** Elastic IP: 52.8.142.171

Property	Value
Instance ID	i-2287b3e0
Instance state	running
Instance type	t2.micro
Private DNS	in-172-31-10-10
Public DNS	ec2-52-8-142-171.us-west-1.compute.amazonaws.com
Public IP	52.8.142.171
Elastic IP	52.8.142.171
Availability zone	us-west-1c

You can obtain your CLM Server IP by going to your AWS **Instances**

Click **CLM Server**

Take Note of your **Public IP**



```
truview@truviewglobal: ~  
* Documentation:  https://help.ubuntu.com/  
  
System information as of Wed Aug  5 10:54:13 PDT 2015  
  
System load:  0.0                Processes:            127  
Usage of /:   7.8% of 76.38GB    Users logged in:     1  
Memory usage: 5%                IP address for eth0: 172.31.21.42  
Swap usage:   0%  
  
Graph this data and manage this system at:  
https://landscape.canonical.com/  
  
120 packages can be updated.  
64 updates are security updates.  
  
Last login: Wed Aug  5 10:50:42 2015 from 216.85.0.50  
truview@truviewglobal:~$ ./setlicense_server.sh  
-bash: ./setlicense_server.sh: No such file or directory  
truview@truviewglobal:~$ ./set_license_server.sh  
  
Set License Server for TruView Global  
Copyright (C) 2015 Leica Geosystems  
  
Enter your license server's hostname or IP address: 52.8.142.171
```

You will be prompted to enter the license server's **hostname** or **IP Address**. TruView Global will restart. Note that it may take up to two minutes for license checking to complete. In this example above, the CLM license machine IP is 52.8.142.171.

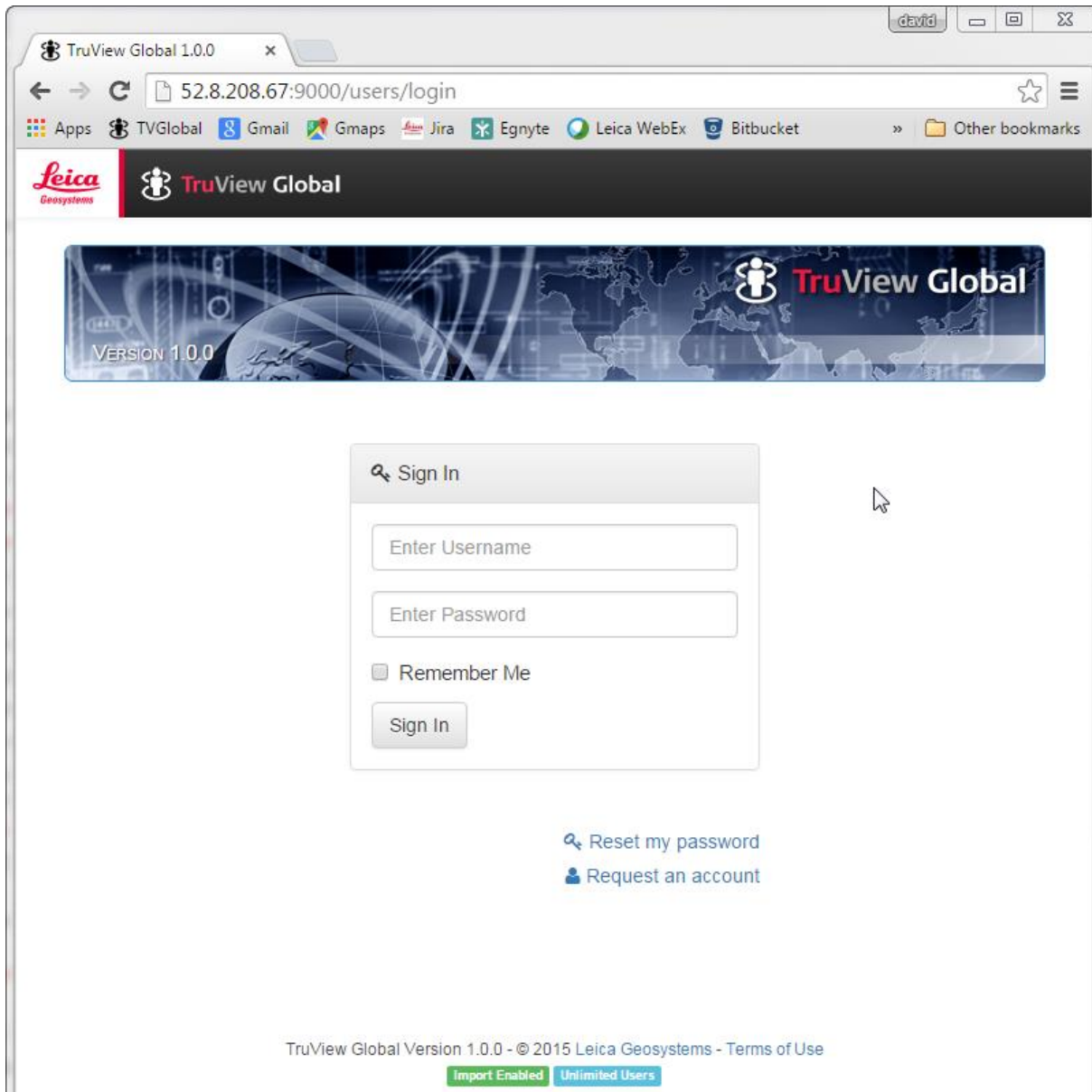
Note: If you are using a CLM server in your office you will need to open port 27000-27010 on the CLM server in your office and then get the public IP address for that computer. Once you have the public IP Address enter it in Putty as shown in the image above and continue with installation.

7. Logging In To TruView Global

Open a web-browser and your Public IP, including :9000.

In the example below, the site is 52.8.208.67:9000

Username and Password is initially: admin



The screenshot shows a web browser window with the address bar displaying "52.8.208.67:9000/users/login". The browser's bookmark bar includes "Apps", "TVGlobal", "Gmail", "Gmaps", "Jira", "Egnyte", "Leica WebEx", and "Bitbucket". The page header features the Leica Geosystems logo and the "TruView Global" title. Below the header is a banner image with the text "VERSION 1.0.0" and the "TruView Global" logo. The main content area contains a "Sign In" form with the following elements:

- A "Sign In" header with a magnifying glass icon.
- An "Enter Username" input field.
- An "Enter Password" input field.
- A "Remember Me" checkbox.
- A "Sign In" button.

Below the form are two links: "Reset my password" (with a magnifying glass icon) and "Request an account" (with a person icon). At the bottom of the page, the text "TruView Global Version 1.0.0 - © 2015 Leica Geosystems - Terms of Use" is displayed, followed by two buttons: "Import Enabled" (green) and "Unlimited Users" (blue).

8. TruView Global ProjectVault Operations

8.1 Check IP

Once you login to the TruView Global VM you can also check the IP address of your machine using the `ifconfig` command.

In this example below, the address is 192.168.37.128. The actual IP address of your TruView Global VM will be different and it will depend on your local network configuration.

```
Getting the IP address using ifconfig

truview@truviewglobal:~$ ifconfig eth0 | grep 'inet addr:'
    inet addr:192.168.37.128 Bcast:192.168.37.255 Mask:255.255.255.0
```

8.2 Setup VM Network Configuration (optional)

All TruView Global VMs are setup with bridged networking. Your local network configuration may require you to change the VM network configuration to fit your requirements.

We recommend you consult your VM platform documentation before making changes to the TruView Global VM network setup:

- [VMware Workstation Configuring Network Connections](#)
- [Configuring Virtual Networking for Microsoft Hyper-V](#)
- [VirtualBox Virtual Networking](#)

8.3 Logout

To log off the VM, type 'logout'. The login prompt will be displayed.

8.4 Power off VM

Note: make sure there is no running job in the import queue before shutting down the VM.

If you have to turn off the host computer running TruView Global VM for maintenance, you must first power off the TruView Global VM. First logon to the VM and then execute the command 'sudo shutdown -P 0'. You will be prompted to enter the password of the TruView user. Once the VM is powered off, you can then safely shut down the host computer.

8.5 Setup License Server

Before continuing, please check that valid TruView Global EIDs have been activated on your Leica CLM License Server system. Contact Leica support to obtain TruView Global EIDs if you haven't received them.

```
truview@truviewglobal:~$ ./set_license_server.sh

Set License Server for TruView Global
Copyright (C) 2015 Leica Geosystems

Enter your license server's hostname or IP address: aoakdskvsam01

License server has been set to 'aoakdskvsam01'

Restarting server

[PM2] restartProcessId process id 0
[PM2] restartProcessId process id 1
```

App name	id	mode	pid	status	restart	uptime	memory	watching
tvimport	0	fork	3593	online	2	0s	22.559 MB	disabled
tvserver	1	fork	3602	online	2	0s	11.391 MB	disabled

```
Use 'pm2 show <idname>' to get more details about an app
truview@truviewglobal:~$
```

The TruView Global server needs a valid license to begin accepting connections. To configure the license server for TruView Global, login to the server and issue the command './set_license_server.sh'. You will be prompted to enter the license server hostname. You can enter either the hostname or its IP address. TruView Global will restart. Note that it may take up to two minutes for license checking to complete. In this example below, the license hostname is 'aoakdskvsam01'.

Alternatively, you can change the license server hostname by editing the file ~/truview/tvserver/tvg.json in a text editor. The license server hostname is specified in the 'lmserver' field.

```
tv.json

{
  "lmserver": "@aoakdskvsam01",
  "home": "/users/login"
}
```

8.6 Change Passwords

The first thing to do once the VM is up and running is to change the passwords for the Linux's truview account and the TruView Global administrator user.

8.6.1 Change Password on Linux

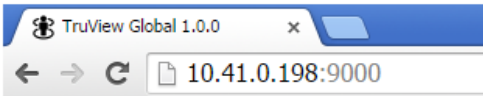
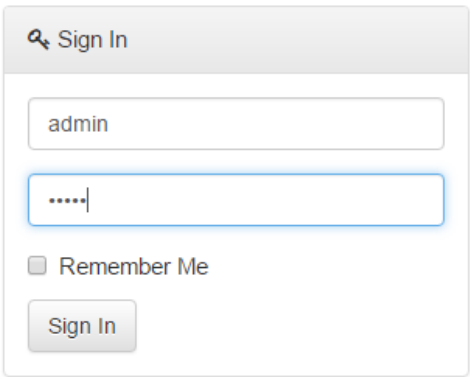
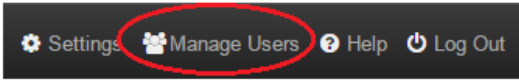
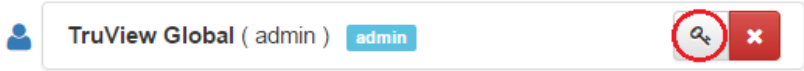
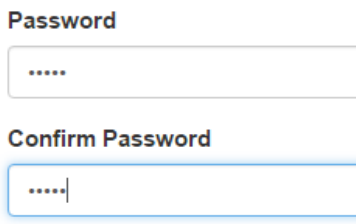
After you login as 'truview' with the default password 'labola01', execute 'passwd'. You will be prompted to enter the current password and the new password as shown below.

```
Change Ubuntu truview password

truview@truviewglobal:~$ passwd
Changing password for truview.
(current) UNIX password:
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

8.6.2 Change TruView Global Administrator Password

You can change TruView Global Administrator password by opening your TruView Global URL in a browser. Simply point your browser to the IP address of TruView Global VM on port 9000 and follow the instructions below.

	<pre>http://<truview-global-ip>:9000/</pre>
<p>1. For this example, the TruView Global server is at IP address 10.41.0.198</p>	
<p>2. On the login page, sign in as 'admin' with the default password 'admin'</p>	
<p>3. Click Manage Users</p>	
<p>4. Click the key button to change the admin password</p>	
<p>5. Type the new password into both textboxes</p>	

8.7 Updating TruView Global

Leica Geosystems periodically releases minor updates for TruView Global. To get these updates, login to the VM and run the command './truview/update.sh' as shown in the example below. TruView Global will automatically restart after the update is installed. Note that the startup may take up to two minutes because of license checking.

```
Running update

truview@truviewglobal:~$ ./truview/update.sh

pulling from ssh://hg@bitbucket.org/leicatruview/truview-distribution-live
searching for changes
adding changesets
adding manifests
adding file changes
added 3 changesets with 4 changes to 4 files
(run 'hg update' to get a working copy)
Latest version available is 1.0.0 2015.0720

-----
5 files updated, 0 files merged, 0 files removed, 0 files unresolved
[PM2] restartProcessId process id 0
[PM2] restartProcessId process id 1
[PM2] Process successfully started
```

App name	id	mode	pid	status	restart	uptime	memory	watching
tvimport	0	fork	59909	online	3	0s	17.699 MB	disabled
tvserver	1	fork	59917	online	3	0s	16.891 MB	disabled

```
Use `pm2 show <id|name>` to get more details about an app
```

8.8 Enable Remote Access to Leica Geosystems Support

In the unlikely event TruView Global server error is encountered and our support team couldn't resolve the issue by phone, we may ask that you allow remote access to your TruView Global server for further troubleshooting. To enable remote access for Leica support personnel, execute './enable_remote_access.sh' after you login. Then, type 'Yes'.

```
truview@truviewglobal:~$ ./enable_remote_access.sh
This operation will enable Leica Support to access this system. You can always disable it later.
Do you want to proceed? Type Yes to enable access: Yes
Remote access enabled.
```

Note that in order for our support to login to your TruView Global server, the server must have a public IP address that is reachable from the internet.

8.9 Disable Remote Access

To disable remote access, type the command './disable_remote_access.sh' at the command line.

```
truview@truviewglobal:~$ ./disable_remote_access.sh
Remote access disabled.
```

8.10 Changing TruView Global Landing Page

The default homepage is the Login page. If you have the PV Unlimited license, you can change the default homepage to the Welcome page where thumbnails of TruView projects are visible.command

line. To change the default homepage, open `~/truvview/tvserver/tvg.json` in a text editor. Change the value from `"/users/login"` to `"/welcome"`. Save the file and restart TruView Global using `"pm2 restart all"`.



```
json.tvg
{
  "lmserver": "@license_server",
  "home": "/welcome"
}
```

Hint: double-c