

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	2
2.	CREATING AN AMAZON WEB SERVICE ACCOUNT	
3.	CREATING A TRUVIEW GLOBAL SERVER ON AWS	4
4.	CREATING A CLM LICENSE SERVER ON AWS	15
5.	INSTALLING CLM LICENSE SOFTWARE	28
6.	CONFIGURING LICENSE SERVER	30
7.	ACCESSING TRUVIEW GLOBAL SERVER CONSOLE	.33

## 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.

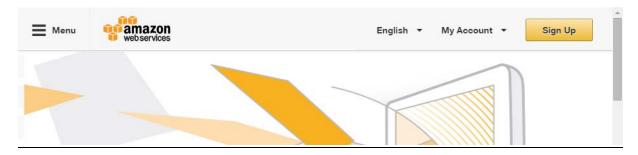
This document describes in a step-by-step method, how you can utilize a pre-configured installation of TruView Global and "clone" that installation to your account. It assumes you are setting up new "Virtual Computers" in a fresh manner, starting from scratch.

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 using our secure server 🕞

Forgot your password?

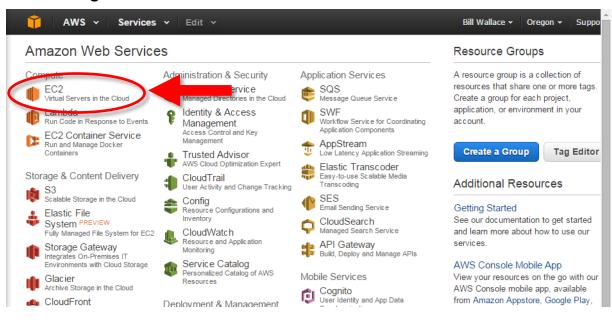


You will be prompted to enter an email address, and check "**I am a new user**" if you do not have an AWS account set up. Follow the prompts to enter in the information needed.

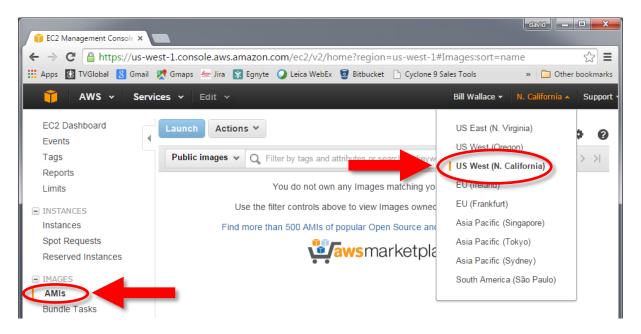


Once you have created an account, go to **My Account > AWS Management Console.** Enter your Username / Password, and sign in.

## 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)).

T AWS 🗸	Services 👻 Edit 👻		Si	am.Vesurai @ 925790 🕶	N. California 🗸	Support 🗸
EC2 Dashboard Events Tags	Actions		Add filter	e	) K < 1 to 2	<b>근 후 ②</b> tof 2 > >
Reports Limits	Name	AMI Name	- AMI ID	Source	Owner	Visibility
INSTANCES		TruView Global 1.2.5	ami-Oebfc 86e	963382491367/T	963382491367	Public
Instances		TruView Global 2.0.2	ami-35efa855	963382491367/T	963382491367	Public
Spot Requests						
Reserved Instances						
Dedicated Hosts						
<ul> <li>IMAGES</li> <li>AMIs</li> <li>Bundle Tasks</li> </ul>					$\searrow$	

Make sure you are searching in **Public images**. Perform a search for "**TruView**". You will see a list of TruView Global AMIs.

🎁 AWS 🗸 Se	ervices 👻 Edit 👻			Sam.Vesurai @ 925790 🕶	N. California 👻	Support 🕶
EC2 Dashboard	Launch	IS ¥				ତ <b>କ ଡ</b>
Tags	Public images v	Q search : TruView	Add filter	G	<  ≤ 1 to 2	2 of 2 > >
Reports Limits	Name	AMI Name	- AMI ID	Source	Owner	Visibility
INSTANCES		TruView Global 1.2.5	ami-Oebfc86e	963382491367/T	963382491367	Public
Instances		TruView Global 2.0.2	ami-35efa855	5 963382491367/T	963382491367	Public
Spot Requests Reserved Instances Dedicated Hosts						
<ul> <li>IMAGES</li> <li>AMIs</li> <li>Bundle Tasks</li> </ul>		ß				

Select the version that you've purchased. Click Launch.

Amazon applicatio	2: Choose an EC2 provides a wide sel ons. They have varying o ate mix of resources for	lection of instance combinations of C	types optimized PU, memory, sto	rage, and networ	king capacity, and give	you the flexibility to cho	ose the
Filter by	All instance types	s 👻 Curre	nt generation	➤ Show/Hide	Columns		
Currer	ntly selected: m4.large	(6.5 ECUs, 2 vCP	Us, 2.4 GHz, Inte	el Xeon E5-2676v	/3, 8 GiB memory, EBS (	only)	
	Family -	Туре –	vCPUs (j) -	Memory (GiB)	Instance Storage (GB) (j	EBS-Optimized Available (j)	Ne Perforr
	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to
	General purpose	t2.small	1	2	EBS only	-	Low to
	General purpose	t2.medium	2	4	EBS only	-	Low to
	General purpose	t2.large	2	8	EBS only	-	Low to
	General purpose	m4.large	2	8	EBS only	Yes	Мо
	General purpose	m4.xlarge	4	16	EBS only	Yes	
	General purpose	m4.2xlarge	8	32	EBS only	Yes	
	General purpose	m4.4xlarge	16	64	EBS only	Yes	
	General purpose	m4.10xlarge	40	160	EBS only	Yes	10
	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	Mo
4							)

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 launch multiple instances from the same AMI, management role to the instance, and more.	reques	st Spot II	nstances to take	
Number of instances	(j)	1				
Purchasing option	(i)	Request Spot Instances				
Network	(i)	vpc-7e43991b (172.31.0.0/16) (default)	C	Create	new VPC	
Subnet	(i)	No preference (default subnet in any Availability Zo	·	Create	e new subnet	
Auto-assign Public IP	(j)	Use subnet setting (Enable)	'			
Placement group	(i)	No placement group	'			
IAM role	i	None	C	Create	new IAM role	
Shutdown behavior	()	Stop	,			
Enable termination protection	(i)	Protect against accidental termination				
Monitoring	(j)	Enable CloudWatch detailed monitoring Additional charges apply.				
EBS-optimized instance	(i)					
Tenancy	()	Shared tenancy (multi-tenant hardware) Additional charges will apply for dedicated tenancy.	•			
Advanced Details						

© 2008 - 2015, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

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

🗨 Feedback 🔇 English

🏹 AWS	• Services • E	dit 🗸			Sam.Vesurai @ 92	5790 🗸	N. California 🗸	Suppo
1. Choose AMI	2. Choose Instance Type	3. Configure Instance	4. Add Storage	5. Tag Instance	6. Configure Security Group	7. Revie	ew	

#### 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 (j)	Device (i)	Snapshot (j)	Size (GiB) (i)	Volume Type $(i)$	IOPS (j)	Throughput (MB/s) (j)	Delete on Termination (i)	Encrypted (i)
Root	/dev/sda1	snap-0dddd9f3	300	General Purpose 5 V	900 / 3000	N/A		Not Encrypted
Add New Vol	ume					2		
Free tier el usage resti	•	rs can get up to 30 (	GB of EBS Ge	neral Purpose (SSD) or N	lagnetic stora	ge. Learn more al	bout free usage	tier eligibility and

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

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

🎁 AWS 🗸 Services 🖌 Edit 🗸				Bill Wallace 🕶	N. California 🗸
1. Choose AMI 2. Choose Instance Type 3. C	onfigure Instance	4. Add Storage	5. Tag Instance	6. Configure Secu	irity Group
Step 5: Tag Instance					
tag consists of a case-sensitive key-value pair. bout tagging your Amazon EC2 resources.	For example, you	u could define a t	ag with key = Nam	e and value = Wei	bserver. Learn
Key (127 characters maximum)		Value (2	55 characters maxi	imum)	
Name					
Create Tag (Up to 10 tags maximum)					
	Cancel	Previous	ew and Launch	Next: Configure :	Security Group

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".

🏹 AWS	∽ Services ∽	Edit 🗸				Sam.Ve	surai @ 925790	👻 N. California 👻	Support +
1. Choose AMI	2. Choose Instance T	ype 3. Con	figure Instance	4. Add Storage	5. Tag Instance	6. Configure Secu	rity Group 7.	Review	
security group is xample, if you wa		les that contro server and all	ol the traffic for low Internet tra	ffic to reach your i	nstance, add rule	in add rules to allov s that allow unrestr 2 security groups.			
	Assign a security								
		Os	Select an <b>existi</b>	ng security group					
	Security group	o name:	tvg-security-gr	oup					
	Desc	ription:	security group	for TruView Globa					
Туре		Protocol (	i)	Port Rang	e (j)	Source (j)			
SSH	¥	ТСР		22		Anywhere •	0.0.0/0		8
HTTP	•	TCP		80		Anywhere •	0.0.0/0		
Custom TCP Ru	ile 🔻	TCP		9000		Anywhere •	0.0.0/0		8 8 8 8 8 8 8 8 8
Custom TCP Ru	ile 🔻	TCP		27008-27	)10	Anywhere •	0.0.0/0		⊗
HTTPS	•	TCP		443		Anywhere •	0.0.0/0		⊗
AILICMP	•	ICMP		0 - 65535		Anywhere •	0.0.0.0/0		8
Add Rule									
Had Itale					N				
A Warni Rules v addres	vith source of 0.0.0	.0/0 allow all I	IP addresses to	access your insta	ince. We recomm	end setting security	y group rules to	allow access from	known IP

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.

You can also ope	ay be accessit	ble from any IF		that you update your	security group ru	world. Iles to allow access from kno e running, e.g., HTTP (80) fo		
	ance that's elig		gible for the free usa e usage tier, check your A	•	type, configurati	on options, or storage device	es. Learn mor	e about free usage tier eligibility
TruView Glob: Root Device Typ	b <b>bal 2.0.2 - ar</b> al 2.0.2 e: ebs Virtualiza							Edit AM 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 group name Description			p for TruView Global		Dent Denne (1)		0	•
Description Type (j		t security grou	rotocol (j)		Port Range (j)		Source	1
Description		t security grou			Port Range (i) 80 9000		Source ( 0.0.0.0/0 0.0.0.0/0	Û
Description Type (j) HTTP		t security grou F T T	rotocol (j) CP		80		0.0.0.0/0	1
Type ①       HTTP       Custom TCP Rule		t security grou F T T T	rotocol (j) CP CP		80 9000		0.0.0.0/0	1
Description Type ① HTTP Custom TCP Rule Custom TCP Rule SSH HTTPS		t security grou	rotocol () CP CP CP CP CP CP CP	: : :	80 9000 27008 - 27010 22 443		0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	0
Description Type ① HTTP Custom TCP Rule Custom TCP Rule SSH		t security grou	rotocol () CP CP CP CP CP CP CP	: : :	80 9000 27008 - 27010 22		0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	1)
Description Type ① HTTP Custom TCP Rule Custom TCP Rule SSH HTTPS		t security grou	rotocol () CP CP CP CP CP CP CP	: : :	80 9000 27008 - 27010 22 443		0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	
Description Type ① HTTP Custom TCP Rule Custom TCP Rule SSH HTTPS All ICMP		t security grou	rotocol () CP CP CP CP CP CP CP	: : :	80 9000 27008 - 27010 22 443		0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0 0.0.0.0/0	1) Edit instance detail: Edit storage

Click Launch.

A Your in	atomas configuration is not cligible for the free usage tion	- x
To laur storage	Select an existing key pair or create a new key pairX	ons, or
✓ AMI Deta	A key pair consists of a <b>public key</b> that AWS stores, and a <b>private key file</b> that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.	Edit AMI
۵	Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.	
	Create a new key pair	
Instance	Kau nais nama	stance type
Instance	Key pair name TruView ProjectVault	
Type m4.large	Download Key Pair	nce
<ul> <li>▼ Security 0</li> </ul>	You have to download the <b>private key file</b> (*.pem file) before you can continue. <b>Store it in a secure and accessible location.</b> You will not be able to download the file again after it's created.	urity groups
Security gr Description	Cance Launch Instances	
Туре 🧻	Protocol (i) Port Range (i) Source (i)	

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.

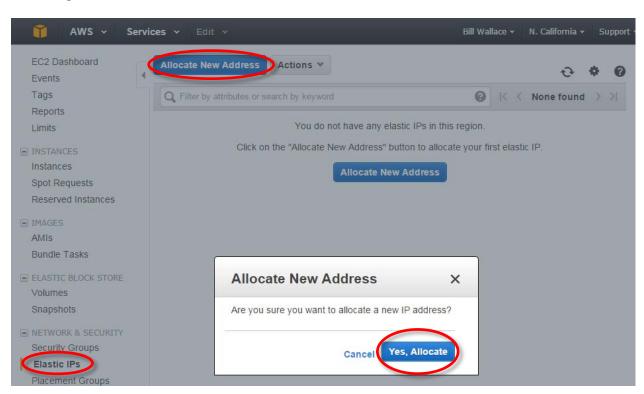
Then you will be able to Launch Instance.

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

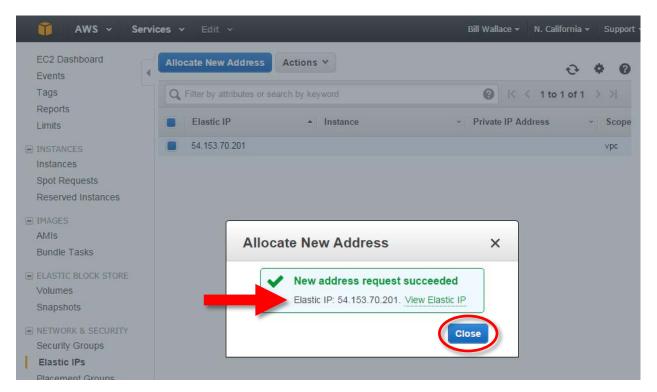
	notification when estimated charges on your AWS bill exceed an amount you define (for
nple, if you exceed the free usage	e tier).
nnect to your instances	
<u>.</u>	a few minutes until they are in the <b>running</b> state, when they will be ready for you to use. Usage ately and continue to accrue until you stop or terminate your instances.
stances to monitor your instance een. Find out how to connect to	es' status. Once your instances are in the <b>running</b> state, you can <b>connect</b> to them from the your instances.
re some helpful resource	s to get you started
nnect to your Linux instance	Amazon EC2: User Guide
out AWS Free Usage Tier	Amazon EC2: Discussion Forum
stances are launching you can a	also
itus check alarms to be notified w	when these instances fail status checks. (Additional charges may apply)
d attach additional EBS volumes	(Additional charges may apply)
ecurity groups	View Instance
	es are launching, and it may take r new instances will start immedia stances to monitor your instance een. Find out how to connect to re some helpful resource nnect to your Linux instance but AWS Free Usage Tier stances are launching you can a tus check alarms to be notified w d attach additional EBS volumes

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

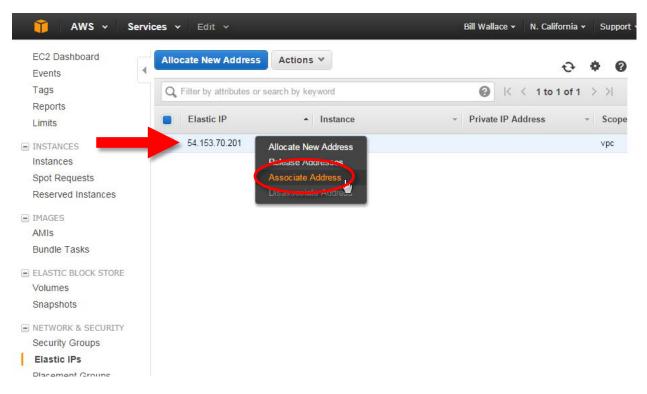


### Obtaining a Public IP Address for Your TruView Global Server

## 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.

	or the on the or	h you wish to associate this IP address (54	.153.70.201)	
	Instance	Search instance ID or Name tag		
		i-915a075a (running)		
	Network Interface			
	Private IP Address	Select instance or interface.	• (j)	
		Reassociation		
Warning If you asso IP address	ociate an Elastic IP address v		dress is released. Learn more about public	

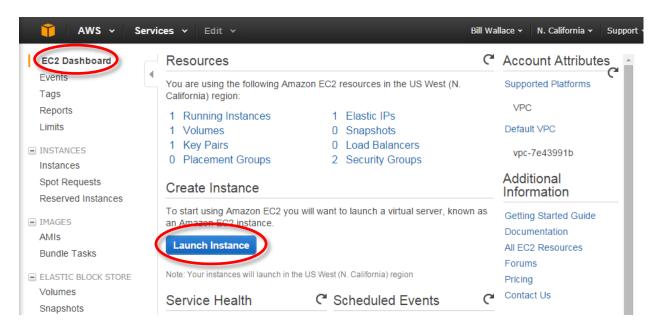
Click in the **Instance** box, and you should see the one instance, or VM that was just created. Select that Instance/VM and click **Associate**.

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.

🎁 AWS 🗸 Service	s 🕶 Edit 🛩		Bill Wallace 👻 N.	. California 👻 Suț	pport -
1. Choose AMI 2. Choose Insta	nce Type 3. Conf	igure Instance 4. Add Storage 5. Tag Instance	6. Configure Security	Group	
Step 1: Choose an	Amazon Ma	achine Image (AMI)	Car	ncel and Exit	
	Windows	Microsoft Windows Server 2012 R2 Base - a Microsoft Windows 2012 R2 Standard edition with 64 [English] Root device type: ebs Virtualization type: hvm		Select	•
	Amazon RDS	Are you launching a database instance? Try Amazon Relational Database Service (RDS) makes scale a relational database of your choice (MySQL, Server) in the cloud. It provides cost-efficient and re time-consuming database management tasks, freeir applications and business. Learn more. Launch a database using RDS	, it easy to set up, opera PostgreSQL, Oracle, S sizable capacity while r	QL managing	i
	<b>N</b> indows	Microsoft Windows Server 2012 R2 with SC Express - ami-776e8433 Microsoft Windows Server 2012 R2 Standard edition architecture, Microsoft SQL Server 2014 Express ed	, 64-bit	Select 64-bit	

Select Microsoft Windows Server 2012 R2 Base.

Amazor	• 2: Choose an n EC2 provides a wide so tions. They have varying riate mix of resources for	election of instance combinations of C	types optimized PU, memory, sto	rage, and netwo	orking capacity, and give	you the flexibility to cho	oose the
Filter	All instance type	es 👻 Curre	nt generation	∽ Show/Hid	e Columns		
Curre	ently selected: t2.micro	(Variable ECUs, 1	vCPUs, 2.5 GHz	, Intel Xeon Fam	nily, 1 GiB memory, EBS	only)	
	Family	- Туре -	vCPUs (j) -	Memory (GiB)	(GB) (i)	EBS-Optimized Available (j)	l Perfo
	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low
	General purpose	t2.small	1	2	EBS only	-	Low
	General purpose	t2.medium	2	4	EBS only	-	Low
	General purpose	t2.large	2	8	EBS only	-	Low
	General purpose	m4.large	2	8	EBS only	Yes	١
	General purpose	m4.xlarge	4	16	EBS only	Yes	
	General purpose	m4.2xlarge	8	32	EBS only	Yes	
	General purpose	m4.4xlarge	16	64	EBS only	Yes	
	General purpose	m4.10xlarge	40	160	EBS only	Yes	.1
	General purpose	m3.medium	1	3.75	1 x 4 (SSD)	-	1
	General purpose	m3.large	2	7.5	1 x 32 (SSD)	-	1

Select General purpose t2 micro.

Click Next: Configure Instance Details.

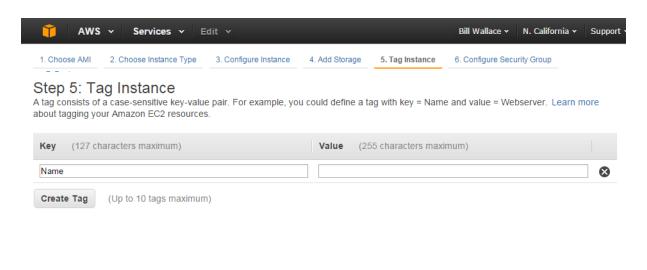
📫 AWS 🗸 Services 🗸 Edi	t •	Bill Wallace 🗸	v N. California 🗸	Support
1. Choose AMI 2. Choose Instance Type	3. Configure Instance 4. Add Storage 5. Tag Instance	6. Configure Se	ecurity Group	
	Details ents. You can launch multiple instances from the same AM ess management role to the instance, and more.	l, request Spot	t Instances to take	
Number of instances (j	1			
Purchasing option (j)	Request Spot Instances			
Network (j	vpc-7e43991b (172.31.0.0/16) (default)	• C Crea	ate new VPC	
Subnet 🧃	No preference (default subnet in any Availability Zo	▼ Crea	ate new subnet	
Auto-assign Public IP 🧃	Use subnet setting (Enable)	•		
IAM role 🧃	None	• C Crea	te new IAM role	
Shutdown behavior 🧃	Stop	T		
Enable termination protection (j	Protect against accidental termination			
Monitoring (j	Enable CloudWatch detailed monitoring Additional charges apply.			
Tenancy 🧃	Shared tenancy (multi-tenant hardware) Additional charges will apply for dedicated tenancy.	T		
	Auditorial charges will apply for dedicated tellality.			
Advanced Details				

	Cancel	Previous Review and L	aunch Next	: Add Storage
🗨 Feedback 🔇 English	© 2008 - 2015, Amazon Web Services, Inc. or if	its affiliates. All rights reserved.	Privacy Policy	Terms of Use

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

TAWS 🕚		▼ Edit ▼						
. Choose AMI	2. Choose Instance	Type 3. Configure	Instance 4. Ac	dd Storage	5. Tag Instance	6. Configur	e Security Group	
ur instance, or e	e launched with dit the settings o	the following storage f the root volume. Yo torage options in Am	u can also attacl					
Type (j)	Device (j)	Snapshot (j)	Size (GiB) (j)	Volume T	ype (i)	IOPS (j)	Delete on Termination (j)	Encrypted (j)
Root	/dev/sda1		35	General F	Purpose (S 🔻	90 / 3000		Not Encryp
Add New Volum	e							
usage tier	eligibility and us	s can get up to 30 Gi age restrictions.		a Purpose (S				
usage tier				a Purpose (S				
usage tier				a Purpose (S				
usage tier						view and Lau		ag Instance
Usage tier		age restrictions.		Cancel	evious	view and Lau	inch Next: T	

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



		Cancel	Previous	Review and Launch	Next: Configure S	ecurity Group
Feedback	🚱 English	© 2008 - 2015, Amazon We	b Services, Inc.	or its affiliates. All rights reserve	d. Privacy Policy	Terms of Use

🎁 AWS 🗸 Ser	vices 🕶 Edit 🗸			Bill Wallace 🕶	N. California 🕶	Suppo
1. Choose AMI 2. Choose	Instance Type 3. Configure I	nstance 4. Add Storage	5. Tag Instance	6. Configure Secu	rity Group	
security group is a set of fi our instance. For example,	e Security Group rewall rules that control the t if you want to set up a web s rPS ports. You can create a	server and allow Internet tra	affic to reach your i	instance, add rule	s that allow unre	stricted
Assign a	security group:      Oreate	e a <b>new</b> security group				
	<ul> <li>Select</li> </ul>	t an <b>existing</b> security grou	р			
Securi	ty group name: launch	ı-wizard-1				
	Description: launch	-wizard-3 created 2015-07-22	214:18:56.561-07:00	)		
Type (j)	Protocol (i)	Port	Range (j	Source (j	)	
RDP 🔻	ТСР	3389		Anywhere	▼ 0.0.0.0/0	⊗
Custom TCP Rule 🔻	TCP	27000	)-27100	Anywhere	▼ 0.0.0.0/0	8
Custom ICMP Rule 🔻	Echo Reply	▼ N/A		Anywhere	▼ 0.0.0.0/0	8
Add Rule						
A Warning						
Rules with source o access from known	f 0.0.0.0/0 allow all IP addre IP addresses only.	sses to access your instance	ce. We recommend	d setting security (	group rules to all	ow
	-					
			Cance	el Previous	Review and L	aunch
					The second second second second second second	

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.

	nstance launcl	h details. Y		edit changes	for each se	ction. Click La	<b>unch</b> to assign a	a key pair to your
ance and comple			rity. Your secu	rity group 1	aunch wiz	ard 1 is on	en to the worl	d
Your instand from known You can als	ces may be ac IP addresses	ccessible fr s only. onal ports i	rom any IP addres n your security gr	s. We recomm	nend that yo	u update you	r security group I	rules to allow access
AMI Details								Edit A
	Device Type: ebs		Indard edition with 6	64-bit architectu	re. [English]			Edit instance ty
Instance Type	ECUs	vCPUs	Memory (GiB)	Instance St (GB)	orage	EBS-Optim Available	iized	Network Performance
t2.micro	Variable	1	1	EBS only		-		Low to Moderate
Security Gro	ups	1				1		Edit security grou
Security group Description	name	launch-w launch-w	vizard-1 vizard-3 created 2	015-07-22T14	1:18:56.561-	07:00		
		Pro	tocol (j		Port Range	(j)	Source	(j)
Туре (ј		TCF	2	;	3389		0.0.0/	0
Type (j) RDP		TCF	_			00	0.0.0.0/	0
	lule	101	5	1	27000 - 271			
RDP			o Reply		27000 - 271 N/A		0.0.0.0/	0
RDP Custom TCP F Custom ICMP	Rule						0.0.0.0/	
RDP Custom TCP F Custom ICMP	Rule						0.0.0.0/	Edit instance deta
RDP Custom TCP F	Rule						0.0.0.0/	o Edit instance deta Edit stora Edit ta

Click Launch.

<u>Au</u>	Select an existing key pair or create a new key pair ×	
<ul> <li>Instance</li> </ul>	A key pair consists of a <b>public key</b> that AWS stores, and a <b>private key file</b> that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.	instance type
Instance Type	Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.	'k nance
	Create a new key pair	Moderate
- Security	Key pair name CLM SERVER	ecurity groups
Security gi Description	Download Key Pair	
Туре (і)	You have to download the <b>private key file</b> (*.pem file) before you can continue. <b>Store it in a secure and accessible location.</b> You will not be able to download the file again after it's created.	
RDP		
Custom T		
Custom IC	Cancel Launch Instances	

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.

▼ AMI Deta		Edit AMI
Autor Doctor	Select an existing key pair or create a new key pair X	
✓ Instance	A key pair consists of a <b>public key</b> that AWS stores, and a <b>private key file</b> that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.	instance type
Instance Type	Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about removing existing key pairs from a public AMI.	'k nance
t2.micro	Create a new key pair	Moderate
▼ Security (	Key pair name CLM SERVER	ecurity groups
Security gr Description	Download Key Pair	
Туре (і)	You have to download the <b>private key file</b> (*.pem file) before you can continue. <b>Store it in a secure and accessible location.</b> You will not be able to download the file again after it's created.	
RDP		
Custom T Custom IC	Cance Launch Instances	

Now you will be able to Launch Instances.

🎁 AWS 🗸 Services 🗸 Edit 🤘	Bill Wallace 👻 N. California 👻 Su
aunch Status	
✓ Your instances are now launchin	q
The following instance launches have b	
Get notified of estimated charges	\$
Create billing alerts to get an email not example, if you exceed the free usage t	ification when estimated charges on your AWS bill exceed an amount you define (for ier).
low to connect to your instances	
	few minutes until they are in the <b>running</b> state, when they will be ready for you to use. Usag Iy and continue to accrue until you stop or terminate your instances.
Click View Instances to monitor your instances' instances screen. Find out how to connect to yo	status. Once your instances are in the <b>running</b> state, you can <b>connect</b> to them from the ur instances.
<ul> <li>Here are some helpful resources</li> </ul>	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
Vhile your instances are launching you can als	0
Create status check alarms to be notified whe	en these instances fail status checks. (Additional charges may apply)
Create and attach additional EBS volumes (A	vdditional charges may apply)
Manage security groups	
	View Instance

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

© 2008 - 2015, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy

Terms of Use

🗨 Feedback 🔇 English

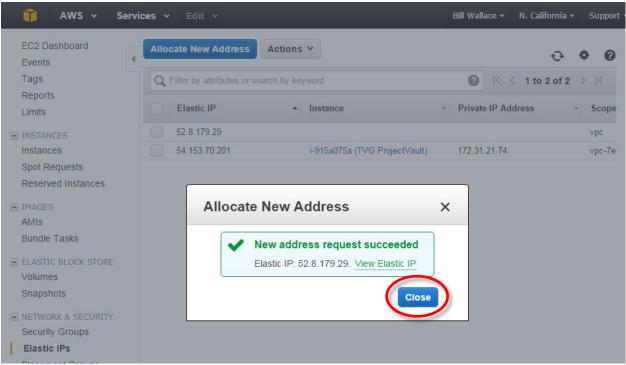
EC2 Dashboard Events	Lau	nch Instance	Cor	Action	s *		Ð	¢	2
Tags	Q,	Filter by tags and a	ıttribı	utes or search by k	eyword	ØK	< 1 to 2 of 2	> >	
Reports Limits		Name	÷	Instance ID 👻	Instance Type 👻	Availability Zone 👻	Instance State -	Sta	atus
INSTANCES		CLM Server		i-d96c791b	t2.micro	us-west-1c	running	X	In
Instances		TVG ProjectVault	t	i-915a075a	m4.large	us-west-1a	running	0	2/2
Spot Requests Reserved Instances									
IMAGEC									
IMAGES									
AMIs									
AMIs									
AMIs Bundle Tasks	4								

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.

🎁 AWS 🗸 Servie	ces 🗸 Edit 🗸	Bill Walla	ice 👻 N. Calif	ornia 🗸	Support
EC2 Dashboard Events	Allocate New Address			0 ¢	0
Tags	Q Filter by attributes or search by keyword	0	< < 1 to	1 of 1 >	
Reports Limits	Elastic IP   Instance	• Private	IP Address	*	Scope
INSTANCES Instances Spot Requests Reserved Instances	54:153.70.201 i-915a075a (TVG ProjectVault)	172.31.	21.74		vpc-7e
IMAGES     AMIs	Allocate New Address	<			
Bundle Tasks	Are you sure you want to allocate a new IP address?				
ELASTIC BLOCK STORE     Volumes     Snapshots	Cance Yes, Allocate				
NETWORK & SECURITY      Security Croups					
Elastic IPs					

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

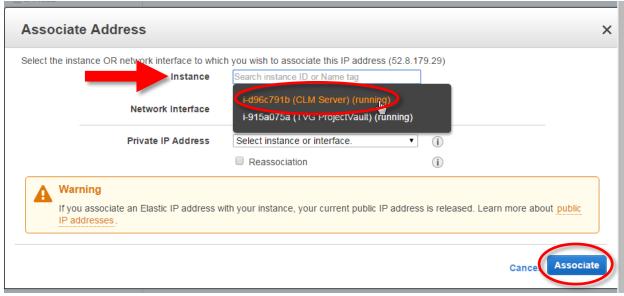


New IP Address will be allocated, click Close.

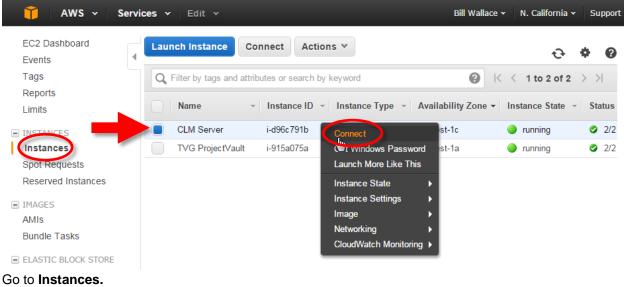
NOTE: this is the IP address of your CLM server.

T AWS - S	Servic	es 🕶 Edit 👻			Bill Wallace 🕶	N. California	*	Support
EC2 Dashboard Events		Allocate New Addres	s Actions 👻			Ð	¢	0
Tags		Q Filter by attributes	or search by keyword		0 K K	1 to 2 of 2	2 >	>
Reports								
Limits		Elastic IP	▲ Instance	-	Private IP Add	ress	-	Scope
INSTANCES		52.8.179.29	Allocate New Address				,	vpc
Instances		54.153.70.201	Release Addresses a (TVG ProjectVault	t)	172.31.21.74		,	vpc-7e
Spot Requests		(	Associate Address					
Reserved Instances			Disassociale Address					
IMAGES								
AMIs								
Bundle Tasks								
ELASTIC BLOCK STORE								
Volumes								
Snapshots								
NETWORK & SECURITY								
Security Groups								
Elastic IPs								

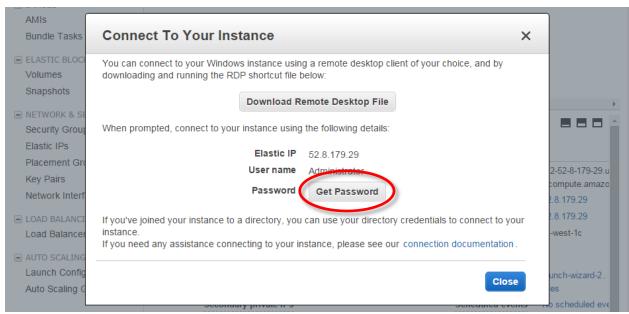
Right Click on the Address that was just created, and click Associate Address.



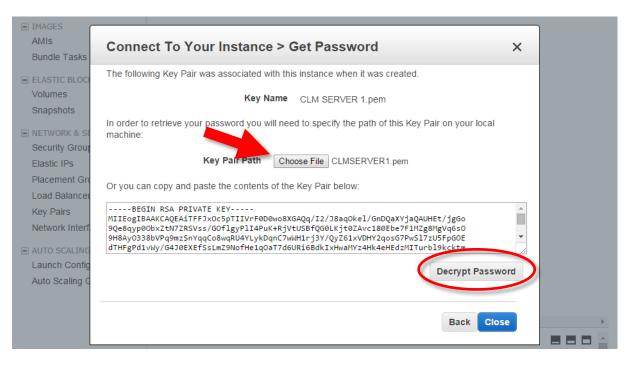
Click in the **Instance** box, and you should see two instances, or VMs running. Be sure to select the CLM instances that was just created, or CLM Server. Select that Instance/VM and click **Associate**.



Right click on **CLM Server.** Click **Connect.** 

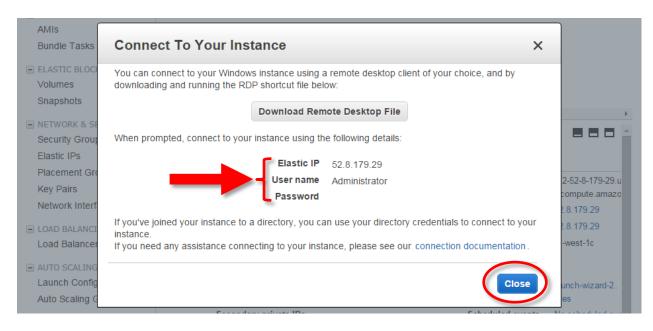


#### Click Get Password.



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.

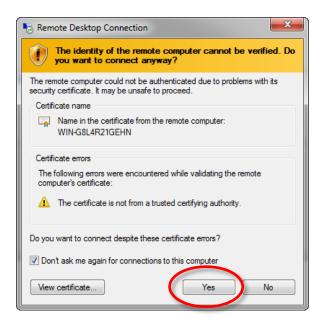
## 5. Installing CLM License Software



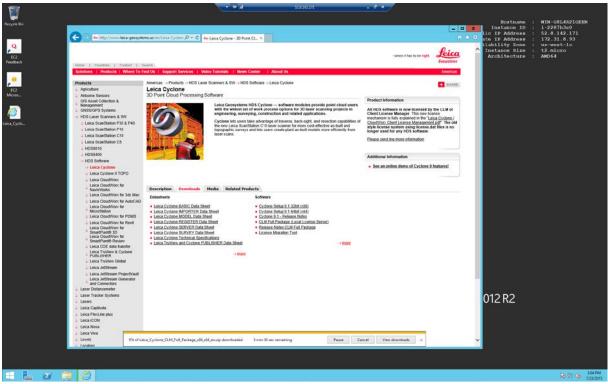
On you local PC, start Remote Desktop Connection. Enter your IP address\Administrator.



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



Click Yes.

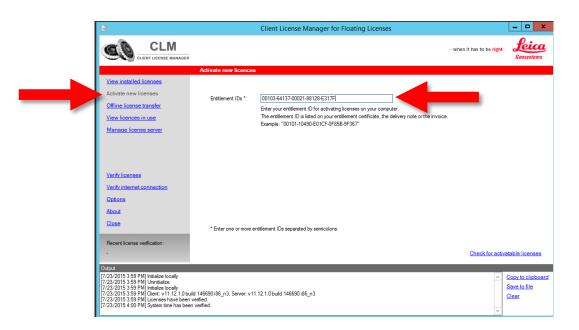


You will now be connected to your license server machine on AWS.

Go to Cyclone Downloads - http://www.leica-geosystems.us/en/Leica-Cyclone\_6515.htm

Choose the **Downloads** tab.

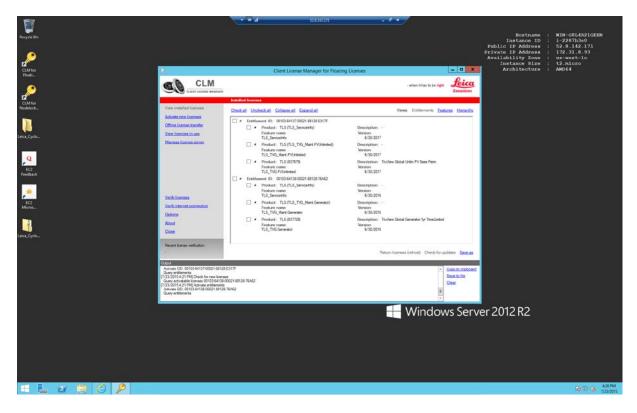
Download and Install CLM Full Package (Local License Server).



## 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.

#### All Sites 🦘

Administration Help 3

## Server Administration

Manage Portals	Manage Users	Customize	Backup
Logs	Notifications	Updates	Licensing

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

## License Management License Status: Invalid License Status: Invalid User Accounts: No Portals Portals: No Portals Expiration Date: ? License Server: @localhost

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></network-name></port-number>	
Can	cel 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 Status: Invalid Importing: Disabled		0°
User Accounts: No Portals Portals: No Portals Expiration Date: ?	License Server Info	Acquire License
License Server: @localhost		

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

icense Status: Valid Importing: Enabled		(b)
Jser Accounts: Unlimited available per Portal		<b>~</b>
Portals: 10 available	License Server Info	Acquire License
xpiration Date: 2016.0826		
icense Server: @qa-win81		

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

<b>Q</b> License		
License Status: Invalid		
Importing: Disabled		
User Accounts: No Users Allowed		
Expiration Date ?	License Server Info	Acquire License
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 <a href="http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html">http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html</a>

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	For Windows on Intel x86						
PuTTY:	putty.exe	(or by FTP)	(RSA sig)	(DSA sig)			
PuTTYtel:	puttyte <sup>©</sup> xe	(or by FTP)	(RSA sig)	(DSA sig)			
PSCP:	pscp.exe	(or by FTP)	(RSA sig)	(DSA sig)			

(or by ETP)

(RSA sig)

(DSA sig)

Download putty.exe.

nofte ava

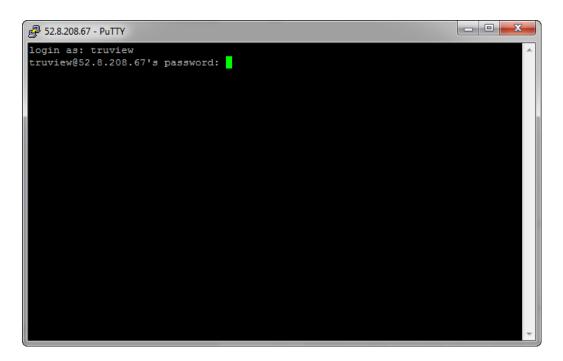
DSETD-

Real PuTTY Configuration		X
Category: Session Category: Ca	Basic options for your PuTTY session         Specify the destination you want to connect to         Host Name (or IP address)       Potential Sector (Sector (Sect	o at a serial Coad Save Delete
About	Open	Cancel

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.