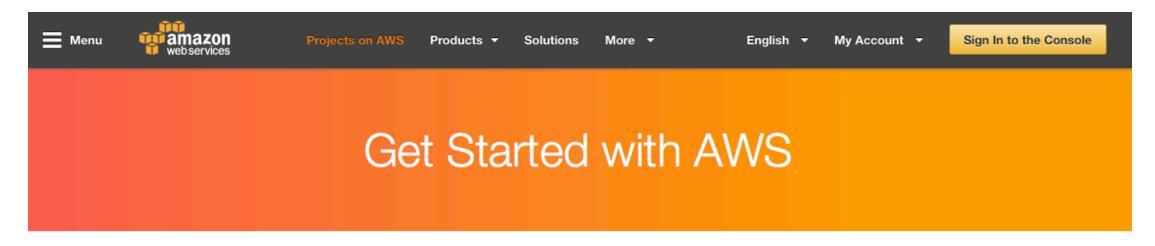
Go to: https://aws.amazon.com/





10-Minute Tutorials

10-Minute Tutorials are simple "Hello, World!" technical documents to help you get started with AWS.



Step-by-Step Project Guides

Over 25 self-service step-by-step guides to help you build and launch your AWS project.

View all tutorials »

View all projects »

Login with your amazon account



Sign In or Create an AWS Account What is your email (phone for mobile accounts)? 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?



AWS services

Find a service by name (for example, EC2, S3, Elastic Beanstalk).

Recently visited services





EC2



VPC

RDS

IAM

> All services

Build a solution

Get started with simple wizards and automated workflows.



Launch a virtual machine

With EC2 ~1 minute



Build a web app

With Elastic Beanstalk





Deploy a serverless microservice

With Lambda, API Gateway ~2 minutes



Host a static website

With S3. CloudFront, Route 53 ~5 minutes



Create a backend for your mobile app

With Mobile Hub ~5 minutes



Register a domain

With Route 53 ~3 minutes

Featured next steps



Manage your costs

Get real-time billing alerts based on your cost and usage budgets. Start now



Get best practices

Use AWS Trusted Advisor for security, performance, cost and availability best practices. Start now

What's new?

Announcing AWS Batch

Now generally available, AWS Batch enables developers, scientists, and engineers to process large-scale batch jobs with ease. Learn more

Announcing Amazon Lightsail

See how this new service allows you to launch and manage your VPS with AWS for a low, predictable price. Learn more

See all

Group

A-Z

History

Console Home

Billing

RDS

EC2

VPC

IAM

Search services



EC2

EC2 Container Service

Lightsail C

Elastic Beanstalk

Lambda Batch



Storage

S3

EFS

Glacier

Storage Gateway



Database

RDS

DynamoDB

ElastiCache

Redshift



Migration

Application Discovery Service

DMS

Server Migration

Snowball



Developer Tools

CodeCommit

CodeBuild

CodeDeploy

CodePipeline



Management Tools

CloudWatch

CloudFormation

CloudTrail

Config

OpsWorks

Service Catalog

Trusted Advisor

Managed Services



Analytics

Athena

EMR

CloudSearch

Elasticsearch Service

Kinesis

Data Pipeline

QuickSight 2



Artificial Intelligence

Lex

Polly

Rekognition

Machine Learning



Internet Of Things

AWS IoT



Game Development

GameLift



Application Services

Step Functions

SWF

API Gateway

Elastic Transcoder



Messaging

SQS

SNS

SES



Business Productivity

WorkDocs

WorkMail

Amazon Chime C



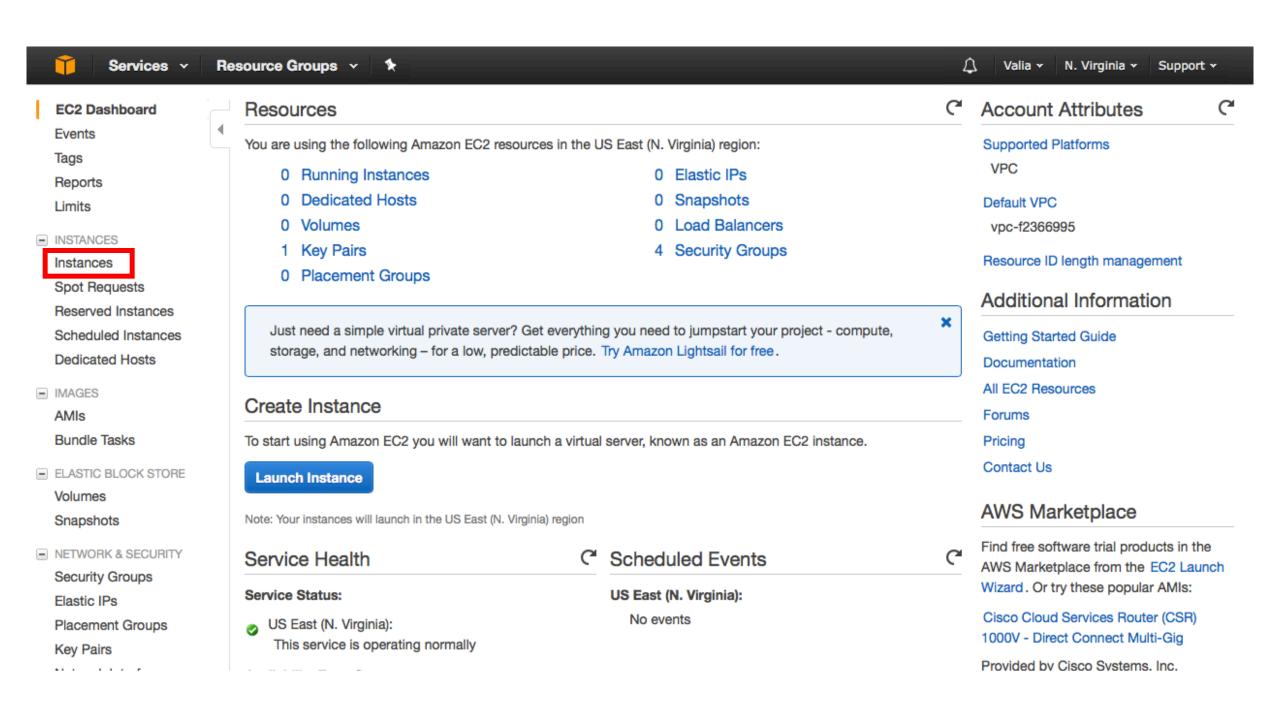
Desktop & App Streaming

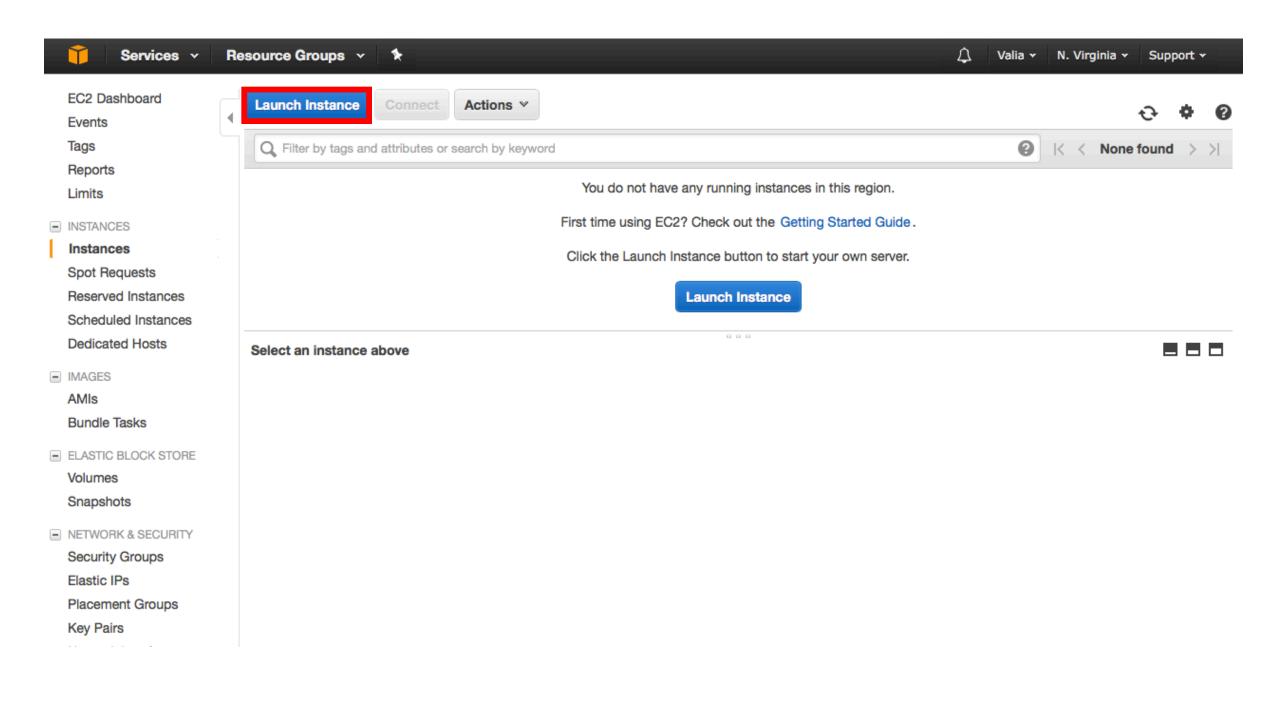
WorkSpaces

AppStream 2.0



Networking & Content Deli...





1. Choose AMI

Choose Instance Type

Configure Instance

Add Storage

Add Tags

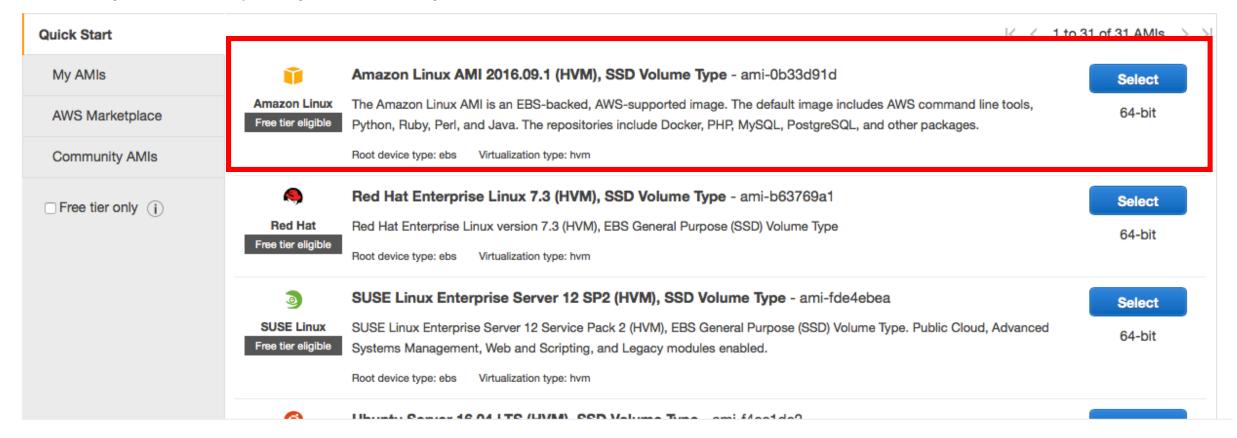
6. Configure Security Group

7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.



Choose AMI

2. Choose Instance Type

Configure Instance

4. Add Storage Add Tags

6. Configure Security Group

7. Review

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 (i) v	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available (i)	Network Performance	IPv6 Support •
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Choose AMI

2. Choose Instance Type

Configure Instance

Add Storage

5. Add Tags

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, launch-wizard-2, 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





Amazon Linux AMI 2016.09.1 (HVM), SSD Volume Type - ami-0b33d91d



The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root Device Type: ebs Virtualization type: hvm

Instance Type

Edit ii	nstance	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

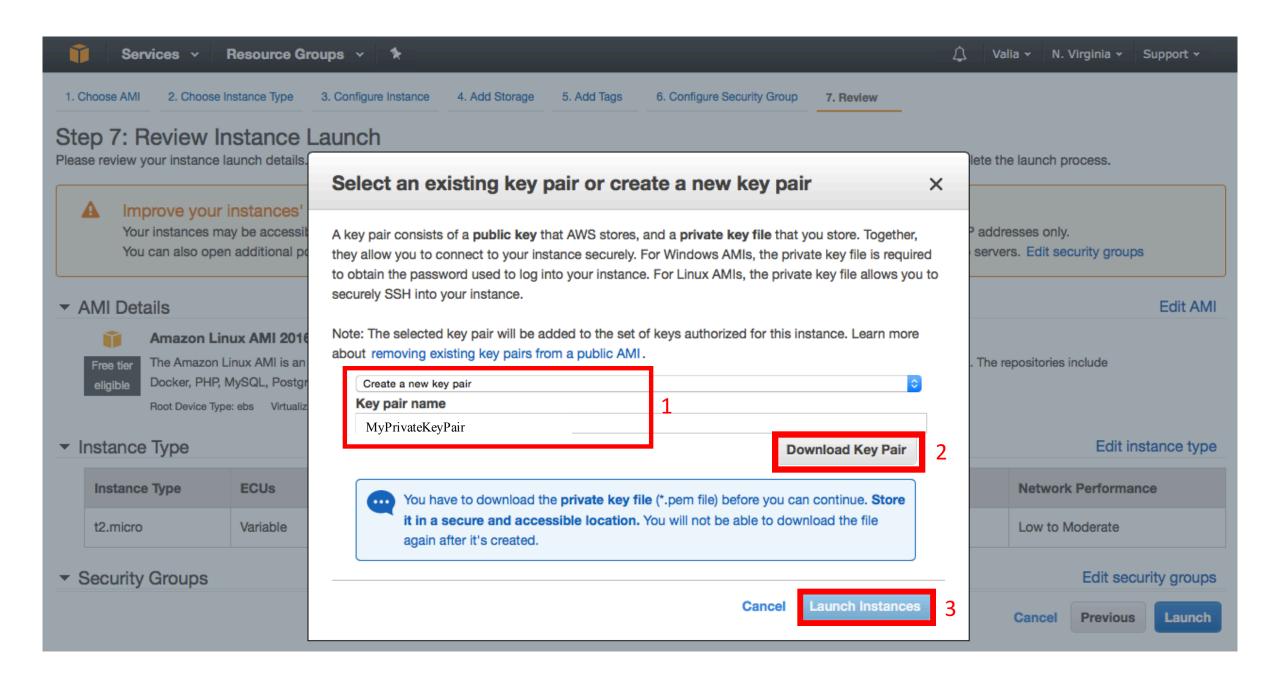
Security Groups

Edit security groups

Cancel

Previous





Launch Status



Your instances are now launching



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

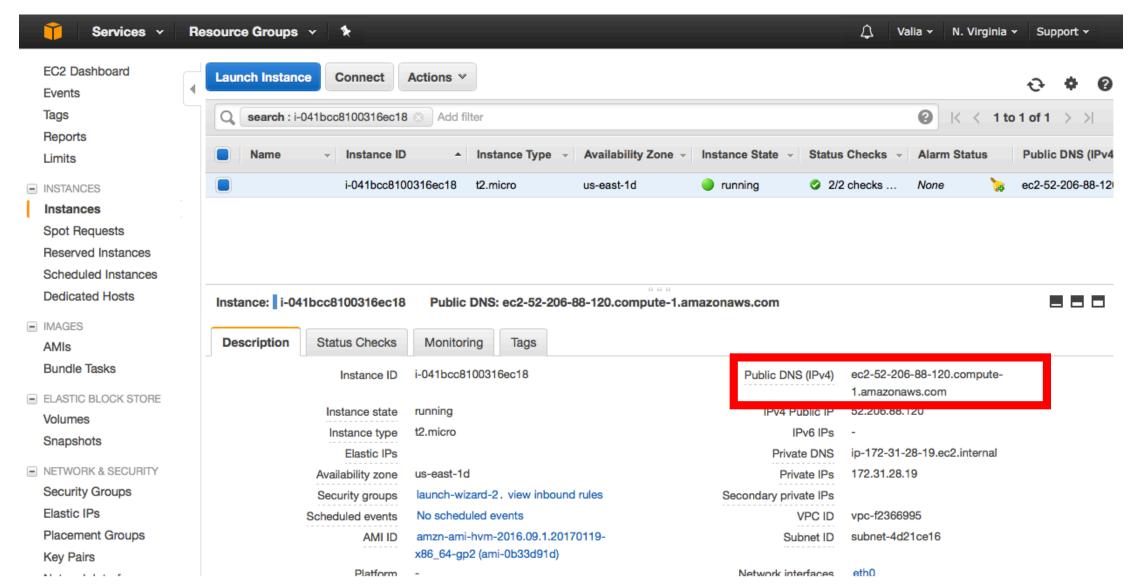
Amazon EC2: User Guide

Learn about AWS Free Usage Tier

Amazon EC2: Discussion Forum

While your instances are launching you can also

The Public DNS of your instance is below.



For Windows Users (1)

Go to http://www.putty.org and download Putty.



Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

You can download PuTTY here.

Below suggestions are independent of the authors of PuTTY. They are not to be seen as endorsements by the PuTTY project.

| Door Of Other Individual State | The Control of Contr

Bitvise SSH Client

Bitvise SSH Client is an SSH and SFTP client for Windows. It is developed and supported professionally by Bitvise. The SSH Client is robust, easy to install, easy to use, and supports all features supported by PuTTY, as well as the following:

- graphical SFTP file transfer;
- single-click Remote Desktop tunneling;
- auto-reconnecting capability;
- dynamic port forwarding through an integrated proxy;
- an FTP-to-SFTP protocol bridge.

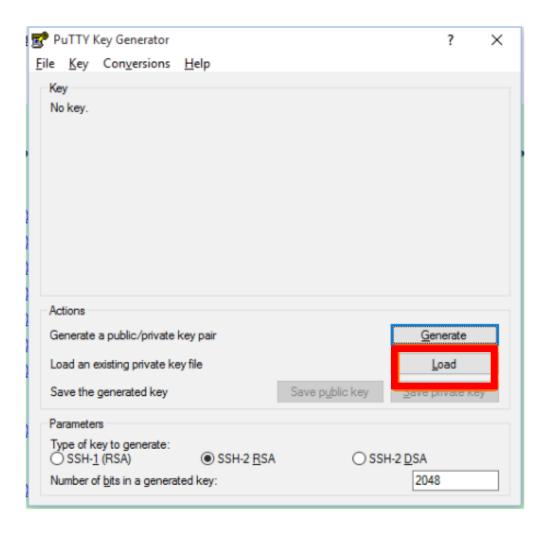
Bitvise SSH Client is free to use. You can download it here.



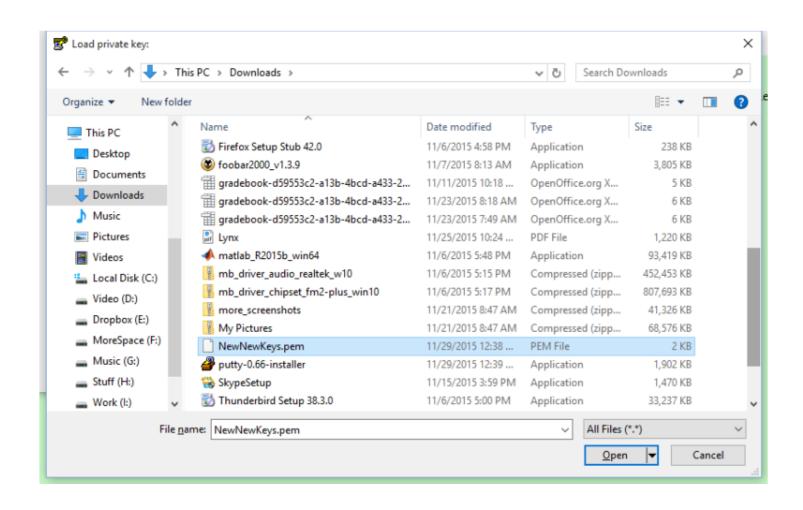
Bitvise SSH Server

Biblion CCU Coming in an CCU CETD and CCD coming for Windows. This values control inshall control and works

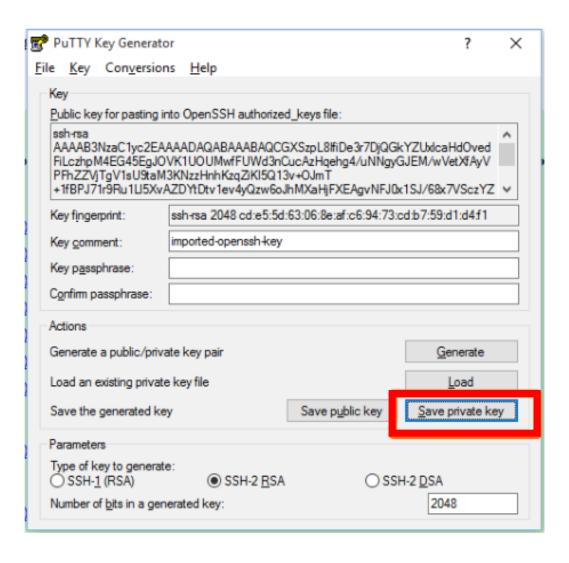
Open the PuTTY Key Generator application (2)



Select the key you downloaded before (3)

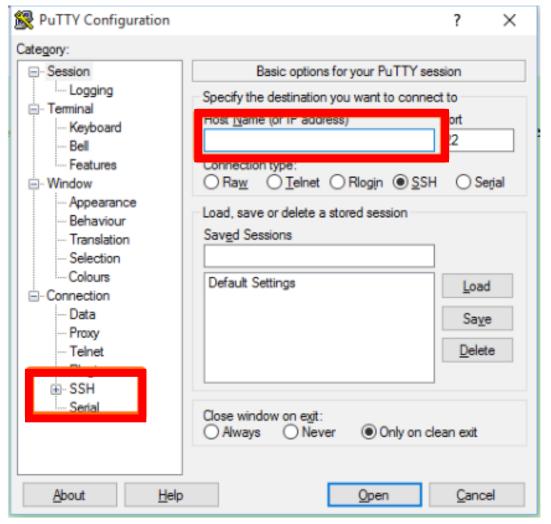


Save the private key (4)

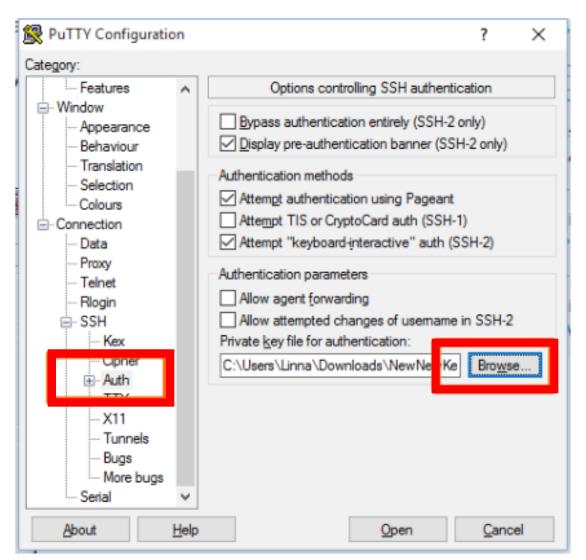


Open Putty and under hostname write: ec2-user@Public_DNS (e.g. ec2-user@ec2-52-206-88-

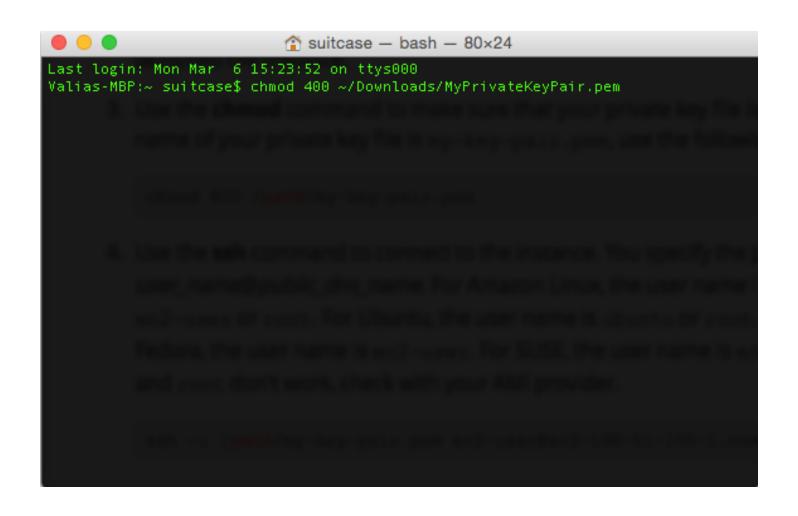
120.compute-1.amazonaws.com) (5)



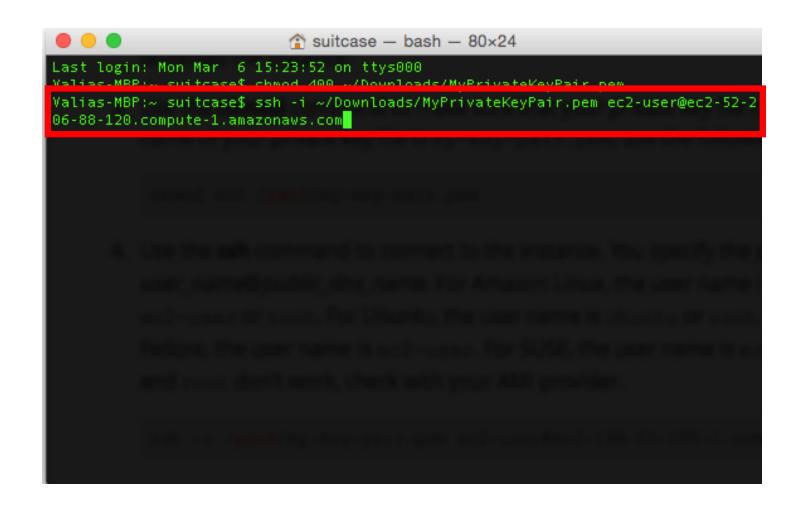
Under Auth load the private key you just saved (6)



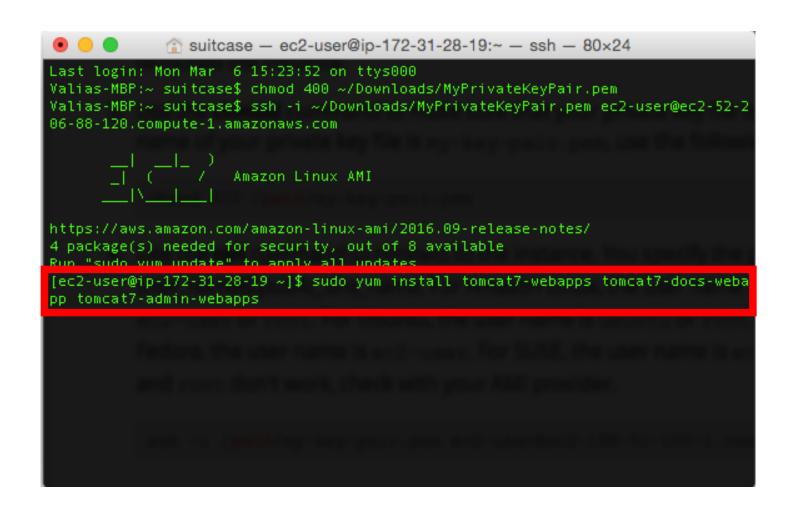
For Linux and Mac Users (1)



For Linux and Mac Users (2)



For all the users (Linux, Mac, Windows)



tomcat7-docs-webapp.noarch 0:7.0.75-1.25.amzn1 tomcat7-webapps.noarch 0:7.0.75-1.25.amzn1 Dependency Installed: apache-commons-collections.noarch 0:3.2.2-3.10.amzn1 apache-commons-daemon.x86 64 0:1.0.7-1.6.amzn1 apache-commons-dbcp.noarch 0:1.4-7.7.amzn1 apache-commons-logging.noarch 0:1.1.1-16.8.amznl apache-commons-pool.noarch 0:1.5.6-1.7.amzn1 apache-tomcat-apis.noarch 0:0.1-1.6.amzn1 ecj.x86 64 1:4.2.1-4.15.amzn1 jakarta-taglibs-standard.noarch 0:1.1.1-11.7.9.amzn1 tomcat7.noarch 0:7.0.75-1.25.amzn1 tomcat7-el-2.2-api.noarch 0:7.0.75-1.25.amzn1 tomcat7-jsp-2.2-api.noarch 0:7.0.75-1.25.amzn1 tomcat7-lib.noarch 0:7.0.75-1.25.amzn1 tomcat7-servlet-3.0-api.noarch 0:7.0.75-1.25.amzn1 xalan-j2.noarch 0:2.7.0-9.9.10.amzn1 xerces-j2.noarch 0:2.7.1-12.7.19.amzn1 xml-commons-apis.noarch 0:1.3.04-3.6.9.amzn1 xml-commons-resolver.noarch 0:1.1-4.18.10.amzn1 Complete! 🕽 sudo nano /etc/tomcat7/tomcat-users.xml 📗 [ec2-user@ip-172-31-28-19 ~|

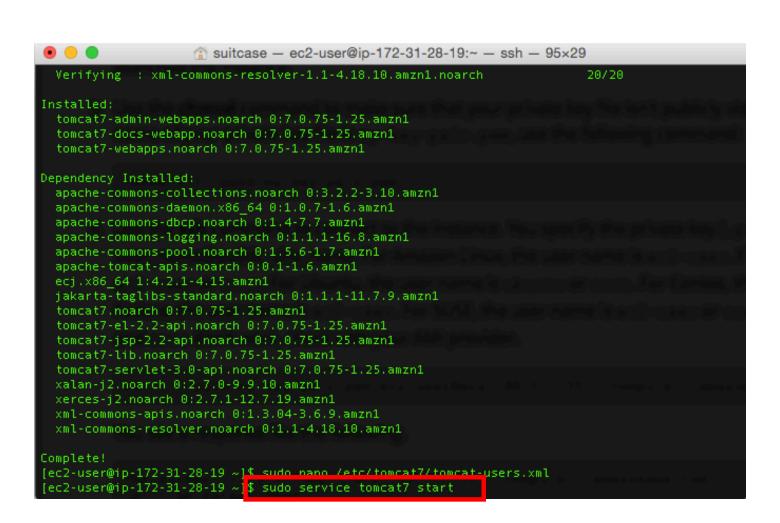
Scroll down at the end of the file and delete the comment tags both from the beginning and the end of each line.

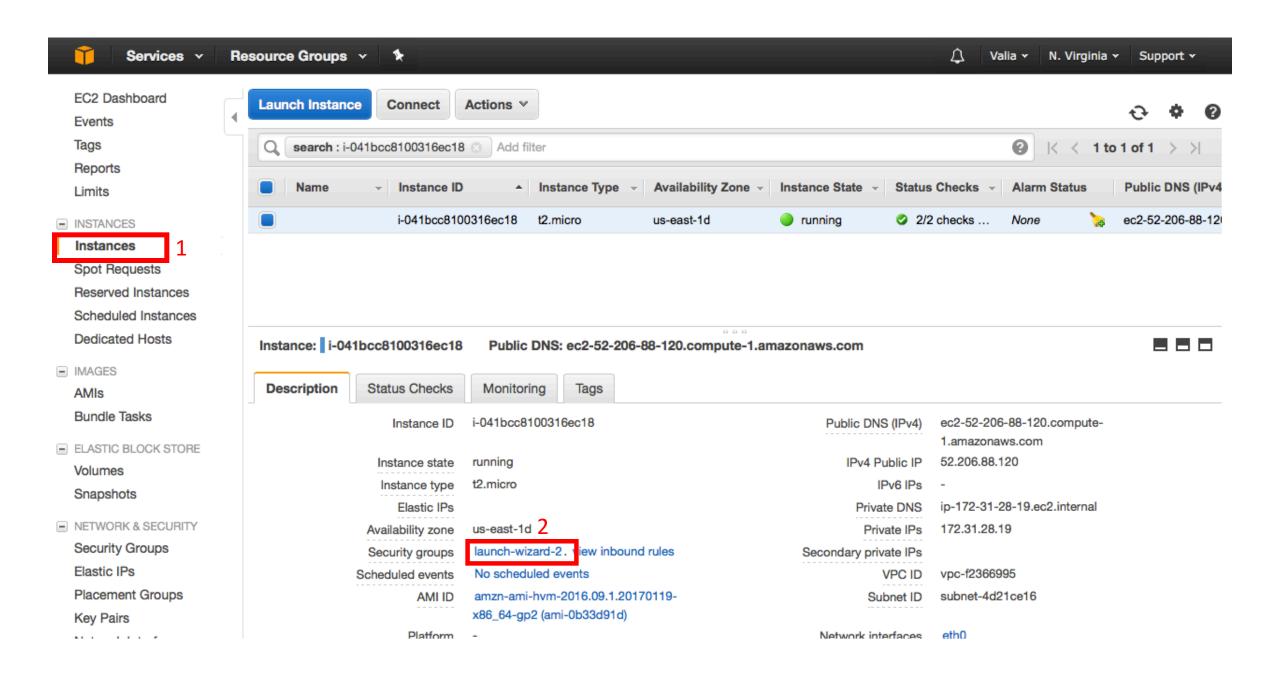
```
suitcase — ec2-user@ip-172-31-28-19:~ — ssh — 95×29
 GNU nano 2.5.3
                           File: /etc/tomcat7/tomcat-users.xml
 examples web application, do not forget to remove the <!...> that surrounds
 them. You will also need to set the passwords to something appropriate.
 <role rolename="tomcat"/>
 <role rolename="role1"/>
 <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
 <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
 <user username="role1" password="<must-be-changed>" roles="role1"/>
      role rolename="admin"/
      role rolename="admin-g
     role rolename="admin-s
                              iot"/> -->
      role rolename="manager
     role rolename="manager
     role rolename="manager
     role rolename="manager
                             mx"/> -->
     role rolename="manager
                             status"/> -->
     user name="admin" pass
                                                     "admin,manager,admin-gui,admin-script,mana$
°G Get Help
                              ^W Where Is
```

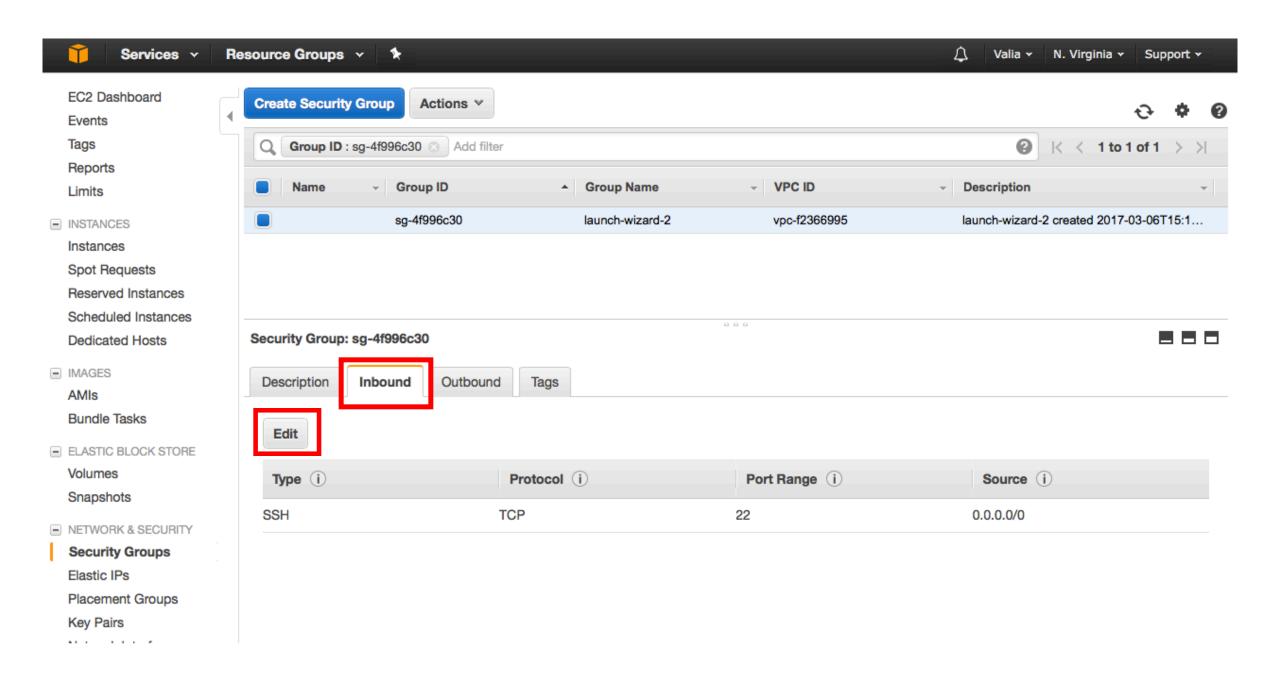
Note: Be careful to uncomment the end of the last line.

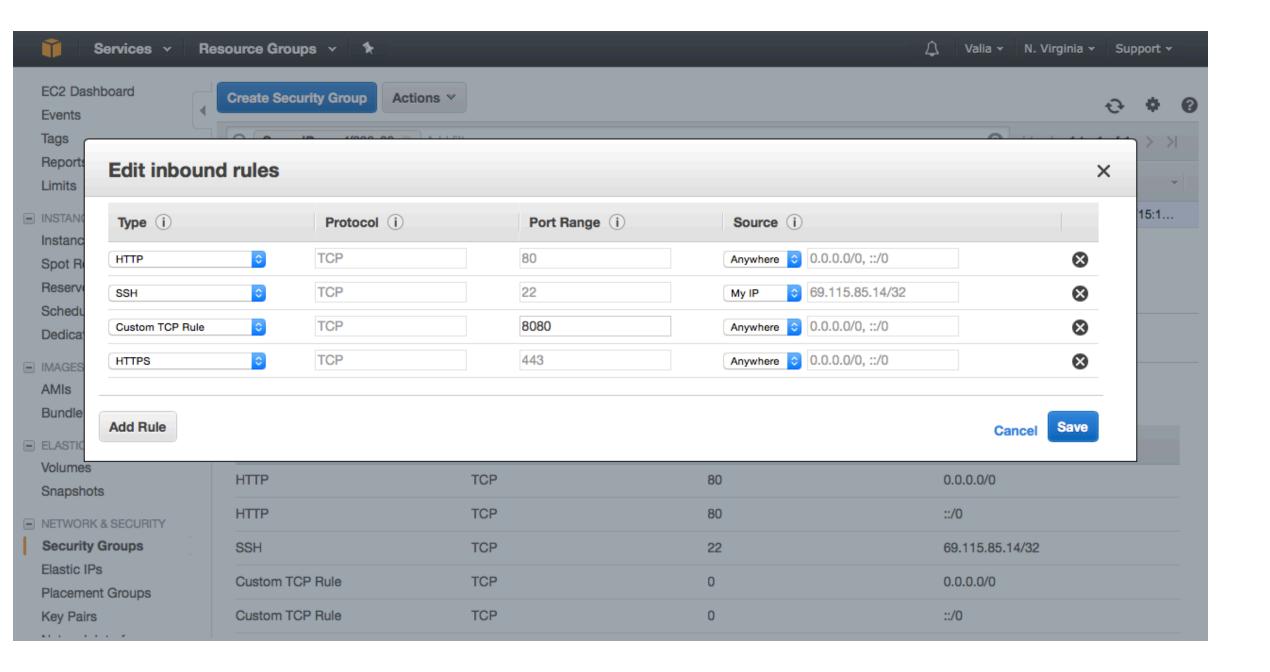
You can change the username and password of your Tomcat administrator. Then press Ctrl+o for saving and then Ctrl+x for exiting the nano editor.

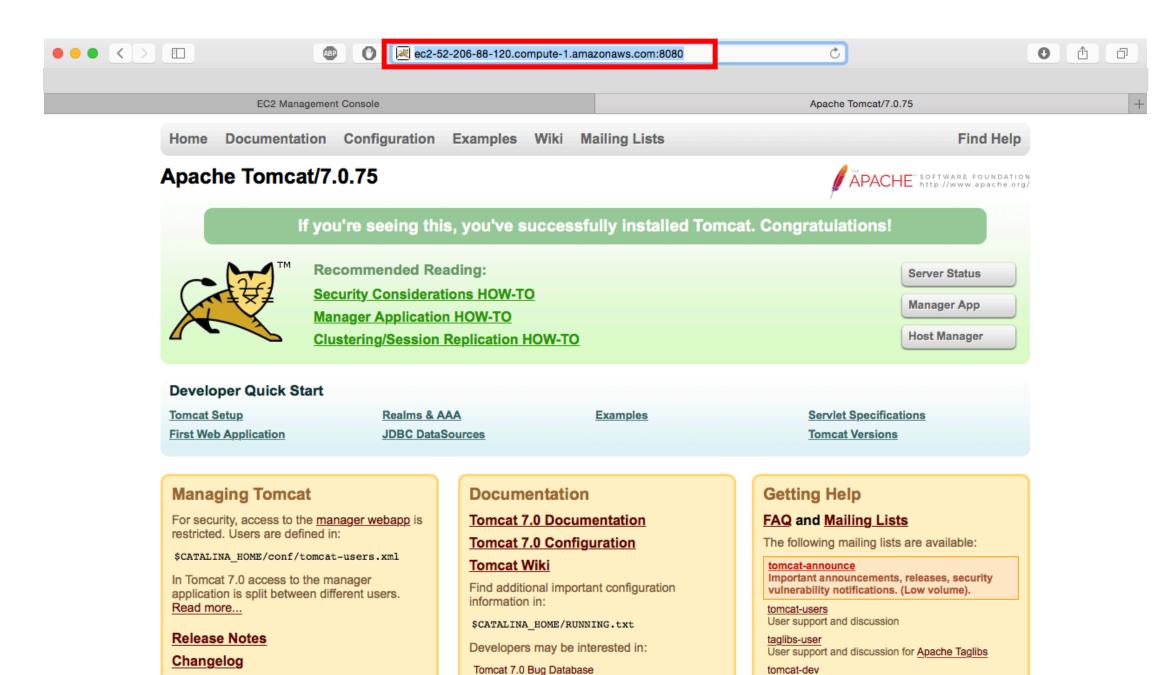
```
suitcase — ec2-user@ip-172-31-28-19:~ — ssh — 95×29
 GNU nano 2.5.3
                            File: /etc/tomcat7/tomcat-users.xml
                                                                                     Modified
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 <role rolename="tomcat"/>
 <role rolename="role1"/>
 <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
 <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
 <user username="role1" password="<must-be-changed>" roles="role1"/>
<role rolename="admin"/>
<role rolename="admin-gui"/>
<role rolename="admin-script"/>
<role rolename="manager"/>
<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-imx"/>
                                         oles="admin,manager,admin-gui,admin-script,manager-g$
</tomcat-users>
                              W Where Is
😘 Get Help
```











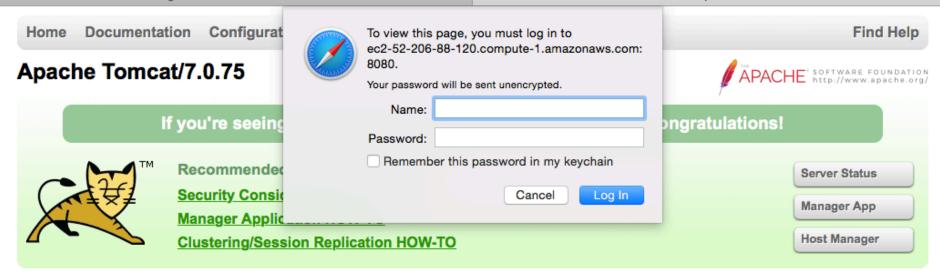
Tomcat 7.0 JavaDocs

Migration Guide

Development mailing list, including commit

messages

EC2 Management Console Apache Tomcat/7.0.75



Developer Quick Start

Tomcat Setup
First Web Application

Realms & AAA

JDBC DataSources

Examples

Servlet Specifications
Tomcat Versions

Managing Tomcat

For security, access to the <u>manager webapp</u> is restricted. Users are defined in:

\$CATALINA_HOME/conf/tomcat-users.xml

In Tomcat 7.0 access to the manager application is split between different users. Read more...

Release Notes

Changelog

Migration Guide

Conveity Nations

Documentation

Tomcat 7.0 Documentation

Tomcat 7.0 Configuration

Tomcat Wiki

Find additional important configuration information in:

\$CATALINA_HOME/RUNNING.txt

Developers may be interested in:

Tomcat 7.0 Bug Database

Tomcat 7.0 JavaDocs

Tomast 7.0 CV/N Depositor

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

tomcat-announce

Important announcements, releases, security vulnerability notifications. (Low volume).

tomcat-users

User support and discussion

taglibs-user

User support and discussion for Apache Taglibs

tomcat-dev

Development mailing list, including commit messages

EC2 Management Console /manager





Tomcat Web Application Manager

Message:	OK

Manager			
List Applications	HTML Manager Help	<u>Manager Help</u>	Server Status

Applications	Applications						
Path	Version	Display Name	Running	Sessions	Commands		
,	None specified	Welcome to Tomcat			Start Stop Reload Undeploy		
2	TVOTE Specified	Welcome to format	ude	<u>0</u>	Expire sessions with idle ≥ 30 minutes		
/docs	None specified	Tomcat Documentation			Start Stop Reload Undeploy		
10003	None specified Tomcat Documentation true <u>0</u>		ū	Expire sessions with idle ≥ 30 minutes			
/avamples	None specified	Condet and ICR Evennels	.	<u>o</u>	Start Stop Reload Undeploy		
/examples	None specified	Servlet and JSP Examples	true		Expire sessions with idle ≥ 30 minutes		
host manager	None enecified	Tomast Hast Manager Application		0	Start Stop Reload Undeploy		
/host-manager	None specified	Tomcat Host Manager Application	uue	true <u>0</u>	Expire sessions with idle ≥ 30 minutes		
					Start Stop Reload Undeploy		
/manager	None specified	Tomcat Manager Application	true	1	Expire sessions with idle ≥ 30 minutes		
					Start Stop Reload Undeploy		

EC2 Management Console			/manager		
/host-manager	None specified	Tomcat Host Manager Application	true	Ō	Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/sample	None specified	Hello, World Application	true	<u>0</u>	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy		
Deploy directory or WAR file located on server		
Context Path (require	d):	
XML Configuration file UI	AL:	
WAR or Directory UI	RL:	
	Deploy	
WAR file to deploy		
Select WAR file to	upload Choose File cs336Final.war	
	Deploy	

Diagnostics

Check to see if a web application has caused a memory leak on stop, reload or undeploy

Find leaks

This diagnostic check will trigger a full garbage collection. Use it with extreme caution on production systems.

Server Information								
Tomcat Version	JVM Version	JVM Vendor	OS Name	OS Version	OS Architecture	Hostname	IP Address	
Apache Tomcat/7.0.75	1.7.0_131-mockbuild_2017_02_15_02_03-b00	Oracle Corporation	Linux	4.4.41-36.55.amzn1.x86_64	amd64	ip-172-31-28-19	172.31.28.19	





Tomcat Web Application Manager

Message:	OK

Manager			
List Applications	<u>HTML Manager Help</u>	<u>Manager Help</u>	Server Status

Applications	pplications						
Path	Version	Display Name	Running	Sessions	Commands		
Ĺ	None specified	Welcome to Tomcat	true	<u>0</u>	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes		
/cs336Final	None specified	HelloWorld	true	<u>0</u>	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes		
/docs	None specified	Tomcat Documentation	true	<u>0</u>	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes		
/examples	None specified	Servlet and JSP Examples	true	<u>0</u>	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes		
/host-manager	None specified	Tomcat Host Manager Application	true	<u>0</u>	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes		
					Start Ston Reload Undenlov		

The url of your application is something like:

- http://<ec2_publicDNS>:8080/<project_name>/
 - E.g. http://ec2-52-206-88-120.compute-1.amazonaws.com:8080/cs336Final/