

Tomcat Install on Amazon EC2 by *Kvreddi*.



Install Tomcat 7 on Amazon Linux instance

In the previous post we spoke about how to build and configure Amazon EC2 Linux instance in terms of free tier offered by Amazon. Amazon propose list of services in scope of cloud platform where we can easily deploy and launch simple web application or test existing web solution. We've decided to use Amazon cloud platform as staging environment where Tomcat 7 web-server will be installed.

The process of installing Tomcat 7 web-server is very simple, furthermore Tomcat 7 included in the package repository of Amazon Linux AML.

Install Tomcat 7

1. Initiate SSH session (as 'ec2-user') and connect to the Amazon Linux instance by it public DNS name.
- 2.
2. Install Tomcat 7 together with standard Tomcat samples, documentation, and management web apps:

```
sudo yum install tomcat7-webapps tomcat7-docs-webapp tomcat7-admin-webapps
```

3. Start/Stop/Restart Tomcat 7 as a service.
startp:

```
sudo service tomcat7 start
```

stop:

```
sudo service tomcat7 stop
```

restart:

```
sudo service tomcat7 restart
```

4. Add Tomcat 7 service to the autostart.

```
sudo chkconfig tomcat7 on
```

5. Add 8080 port to the security group associated with Amazon Linux instance using AWS Management Console.

1 Security Group selected

Security Group: webserver-security-group

Details Inbound

Create a new rule: Custom TCP rule

Port range:

Source:

[Add Rule](#)

TCP Port (Service)	Source	Action
22 (SSH)	0.0.0.0/0	Delete
80 (HTTP)	0.0.0.0/0	Delete
5432	0.0.0.0/0	Delete
8080 (HTTP*)	0.0.0.0/0	Delete


6. Connect to the instance by public DNS name on port 8080.

Home Documentation Configuration Examples Wiki Mailing Lists [Find Help](#)

Apache Tomcat/7.0.25

The Apache Software Foundation <http://www.apache.org/>

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 Recommended Reading:

- [Security Considerations HOW-TO](#)
- [Manager Application HOW-TO](#)
- [Clustering/Session Replication HOW-TO](#)

[Server Status](#)

[Manager App](#)

[Host Manager](#)

Developer Quick Start

- [Tomcat Setup](#)
- [Realms & AAA](#)
- [Servlet Examples](#)
- [Servlet Specifications](#)
- [First Web Application](#)
- [JDBC DataSources](#)
- [JSP Examples](#)
- [Tomcat Versions](#)

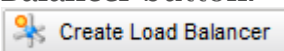
[Managing Tomcat](#) [Documentation](#) [Getting Help](#)

Configure Amazon Elastic Load Balancer

Amazon ELB automatically distributes incoming application traffic across multiple Amazon EC2 instances.

1. Sign in to the AWS Management Console and navigate to the Amazon EC2 tab.

2. Select Load Balancer section from the left navigation menu and press Create Load Balancer button.



3. In the Load Balancer Configuration wizard set load balancer name and point 80 port to 8080 port and press Continue button.

Create a New Load Balancer

[Cancel](#)


This wizard will walk you through setting up a new load balancer. Begin by giving your new load balancer a unique name so that you can identify it from other load balancers you might create. You will also need to configure ports and protocols for your load balancer. Traffic from your clients can be routed from any load balancer port to any port on your EC2 instances. By default, we've configured your load balancer with a standard web server on port 80.

Load Balancer Name:

Create LB inside: EC2

Listener Configuration:

Load Balancer Protocol	Load Balancer Port	Instance Protocol	Instance Port	Actions
HTTP	80	HTTP	8080	Remove
<input type="text" value="HTTP"/>	<input type="text"/>	<input type="text" value="HTTP"/>	<input type="text"/>	Save

[Continue](#)

4. Configure health check options, set ping path as /index.jsp and press Continue button.

Create a New Load Balancer

[Cancel](#)


Your load balancer will automatically perform health checks on your EC2 instances and only route traffic to instances that pass the health check. If an instance fails the health check, it is automatically removed from the load balancer. Customize the health check to meet your specific needs.

Configuration Options:

Ping Protocol:

Ping Port:

Ping Path:

Advanced Options:

Response Timeout: Seconds

Time to wait when receiving a response from the health check (2 sec - 60 sec).

Health Check Interval: Minutes

Amount of time between health checks (0.1 min - 5 min)

Unhealthy Threshold:

Number of consecutive health check failures before declaring an EC2 instance unhealthy.

Healthy Threshold:

Number of consecutive health check successes before declaring an EC2 instance healthy.

[Back](#)
[Continue](#)

5. Add instance to the load balancer and press Continue button.

Create a New Load Balancer

[Cancel](#)


The table below lists all your running EC2 Instances that are not already behind another load balancer or part of an auto-scaling capacity group. Check the boxes in the Select column to add those instances to this load balancer.

Manually Add Instances to Load Balancer:

Select	Instance	Name	State	Security Groups	Availability Zone
<input checked="" type="checkbox"/>	i-a36b8deb	ec2-webserver	● running	webserver-security-group	eu-west-1c

[select all](#) | [select none](#)

Availability Zone Distribution:

1 instances in eu-west-1c

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[Continue](#)


6. On the last step review load balancer configuration and press create button.


7. Select created load balancer from the list and wait while status updated.

1 Load Balancer selected

Load Balancer: load-balancer

[Description](#) [Instances](#) [Health Check](#) [Security](#)

Instances 			
Instance	Availability Zone	Status	Actions
i-a36b8deb	eu-west-1c	In Service	Remove from Load Balancer

Availability Zones 			
Availability Zone	Instance Count	Healthy?	Actions
eu-west-1c	1	Yes	-

8. Connect to the instance with a load balancer DNS name.

1 Load Balancer selected

Load Balancer: load-balancer

[Description](#) [Instances](#) [Health Check](#) [Security](#)

DNS Name: [load-balancer-7876864.eu-west-1.elb.amazonaws.com](#) (A Record)



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SUVEN IT established in 01-Jan--2010 by **Mr. kvreddi** having 20 years teaching and 17 years of real time work experience across USA & India, We are recognized as a leader in all IT training Courses to supply quality IT Professionals to Industry. SUVEN IT committed to provide high quality service with elevated level of student's satisfaction and provides the high end industry training and real time knowledge to students.

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*By
Kvreddi*