Top Gear Cloud Training

Lesson 1

Learning Objective

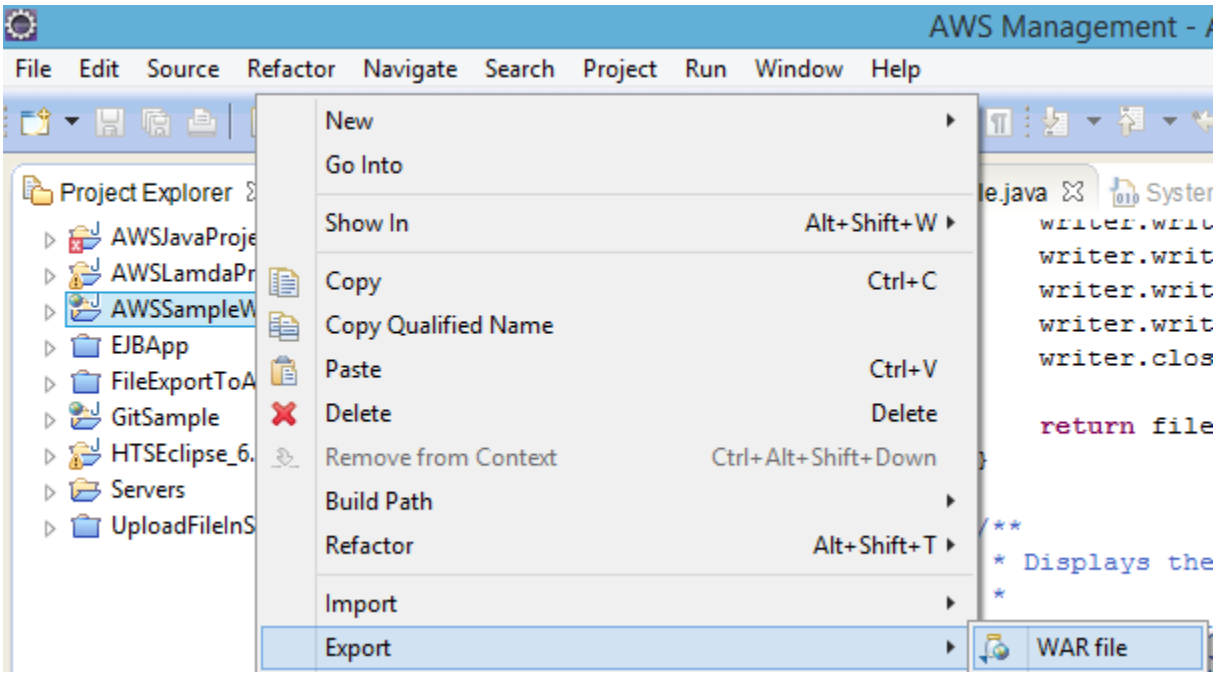
How to create cloud infrastructure and deploy web application to cloud. You will see your application running on AWS cloud platform.

Prerequisite for trainer:

Create AWS account. Create an AWS group in IAM. Provide required permission to the group. Crate user for each employee using Wipro ID of trainee. Assign them to the created group. Hand over User Id, password and account id to trainees. Create a Key pair for EC2 access. Provide Key pair name to trainee.

Prerequisite for trainee:

In your local eclipse system build a web application and test it in Tomcat 8 server in your local machine on Java 8. User need to have AWS account id, User id and Password. The web application should not be dependent of database or perform file access. Create war file from export option of eclipse of your web project and save it to your local drive.



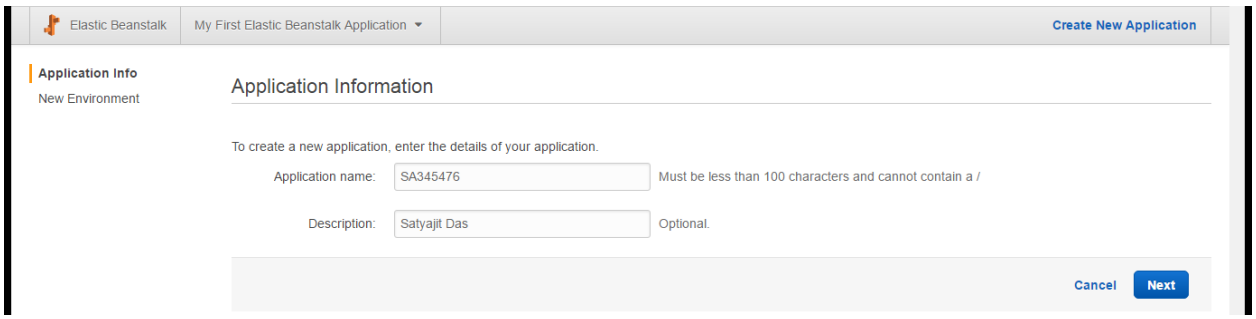
Steps to follow:

Login to AWS environment:

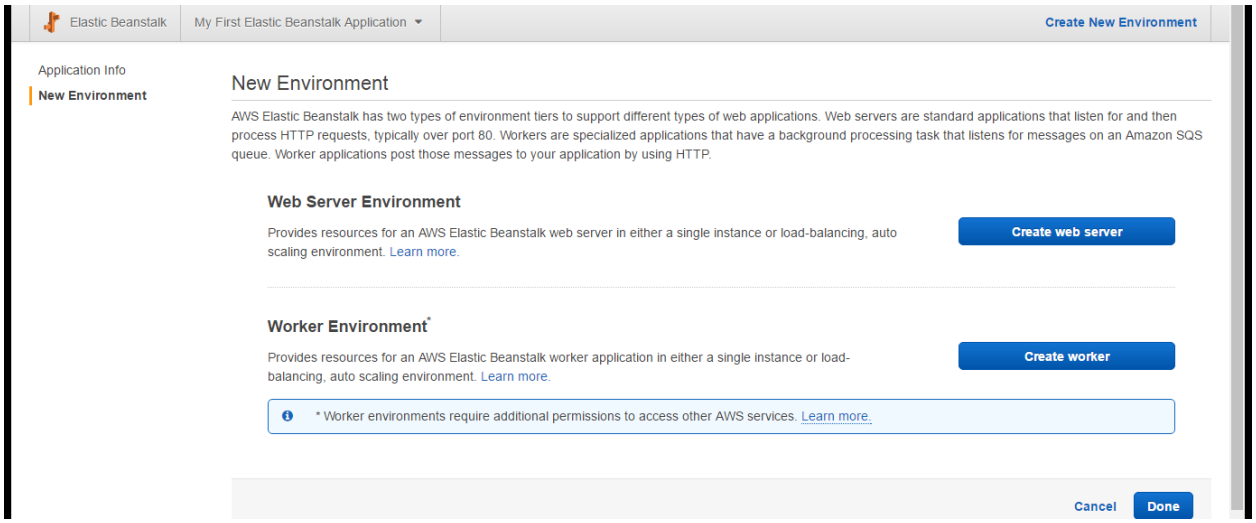
1. Login to AWS environment. Paste the following link in your favorite browser. https://940679525002.signin.aws.amazon.com/console
2. Key in your user ID and password and login to the system. You should be able to see a screen like the following with all the AWS service listed. Click on Elastic Beanstalk.

Username	topgear-aws-master
Password	wipro_123

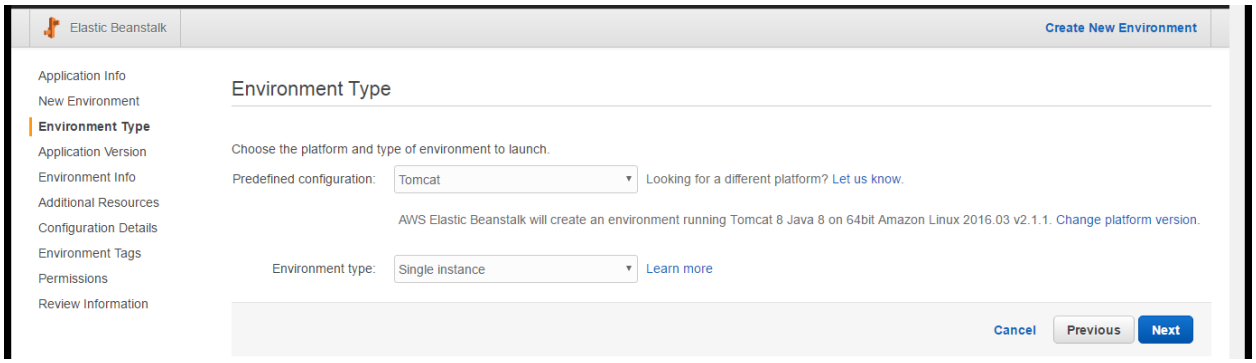
3. Click on Create New Application on the next page.
4. In application name put your WiproID and in description put your name. Click Next:



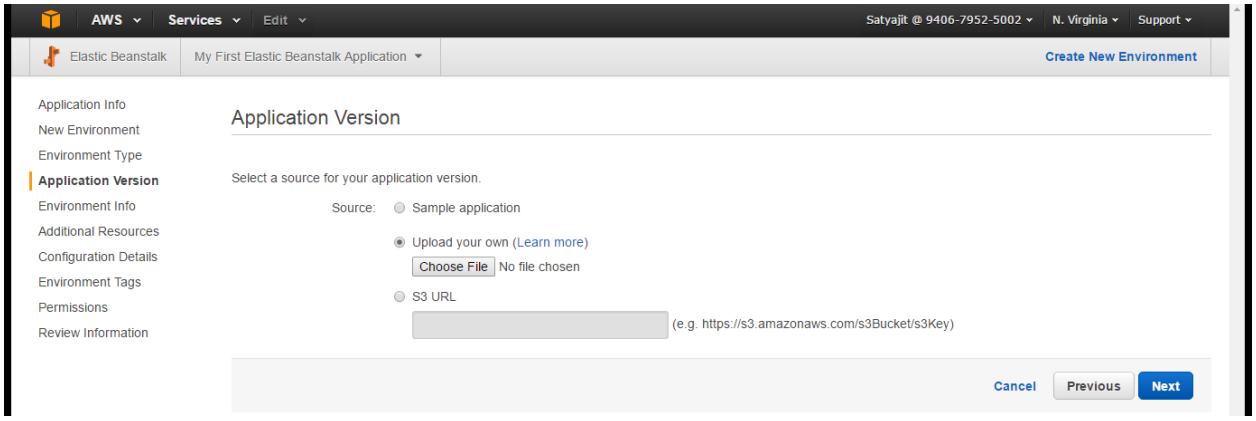
5. In New Environment page click Create Web Server.



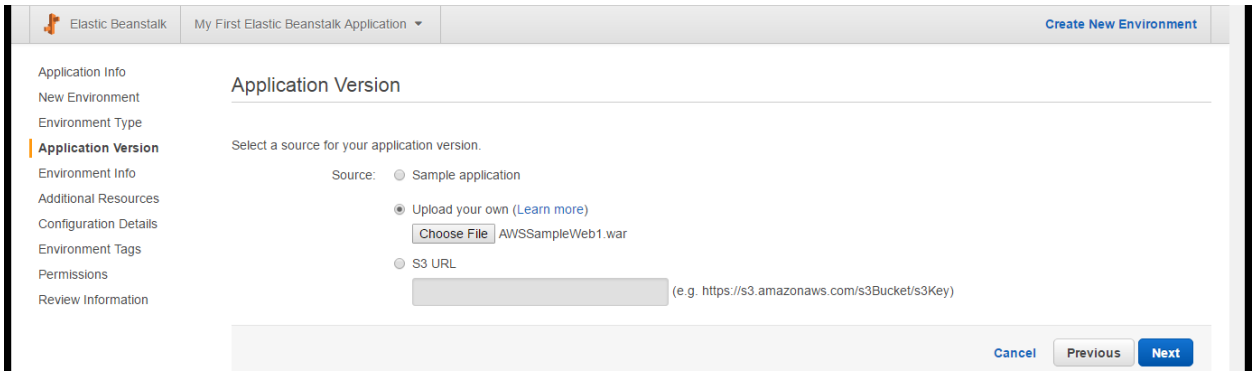
6. In Environment Type page define Environment type. In Predefined configuration put Tomcat. In environment type put single instance. Click Next:



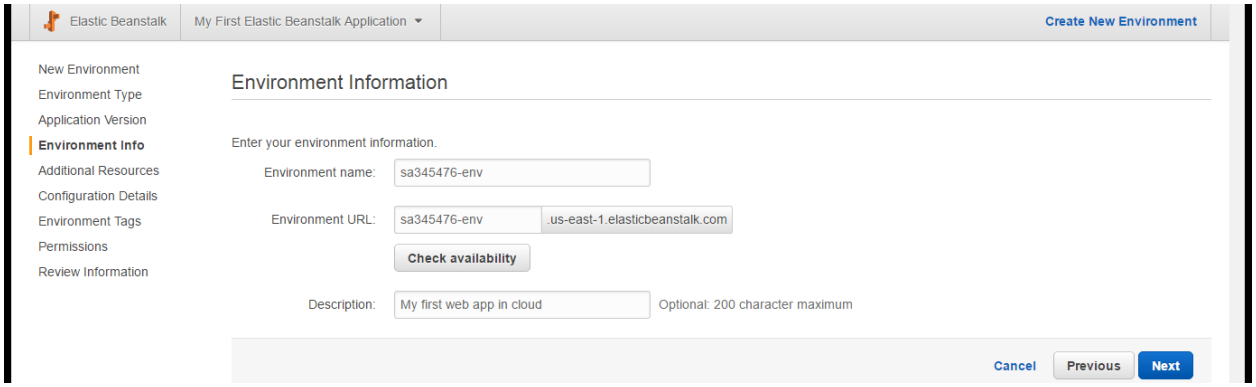
7. In Application Version for source choose upload your own.



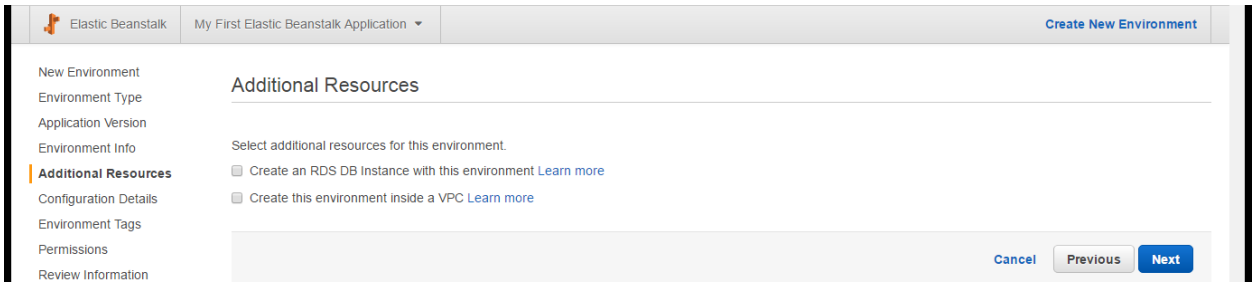
8. In Application Version page, click on Choose File. Upload the .war file of web project created from export option in eclipse. Click next. Wait for the war file getting uploaded.



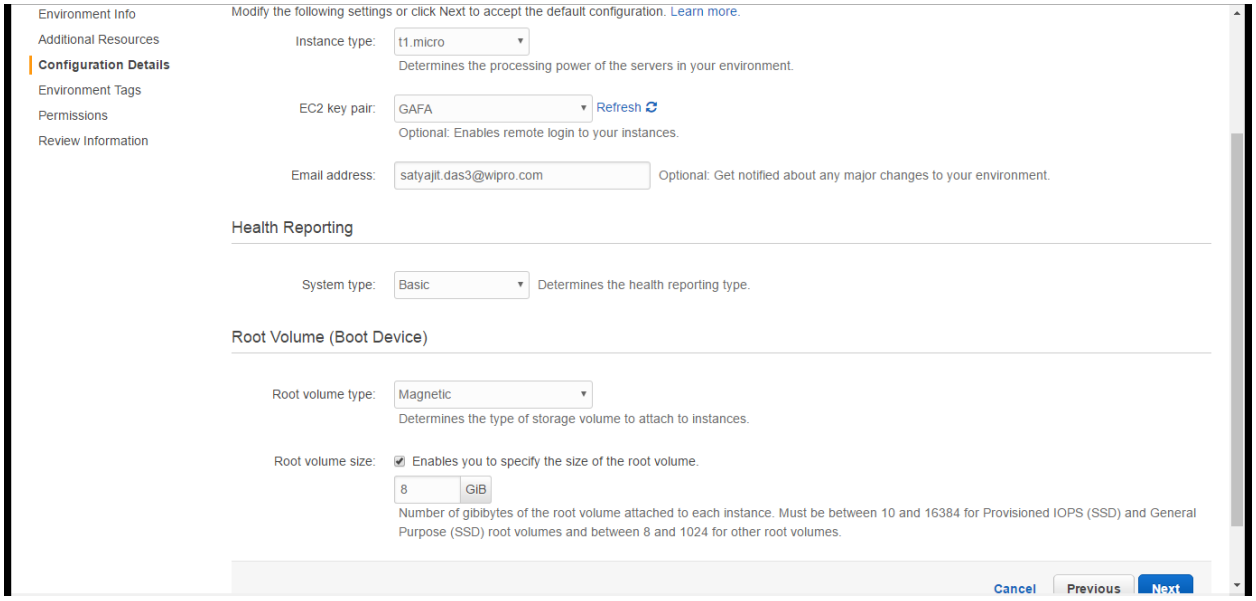
9. In Environment Information page, click on check availability to ensure the URL or your application is unique. Add description. Click Next button.



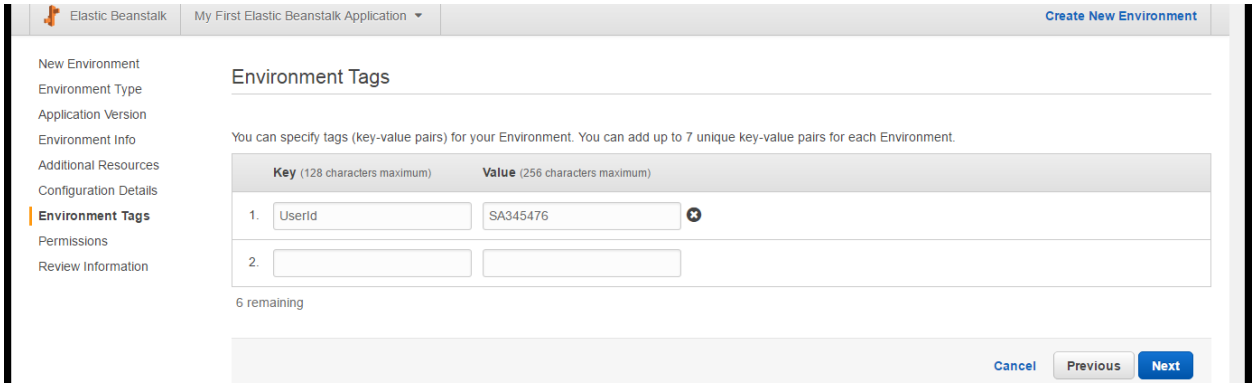
10. In Additional Resources page, don't select anything on next page. Click Next.



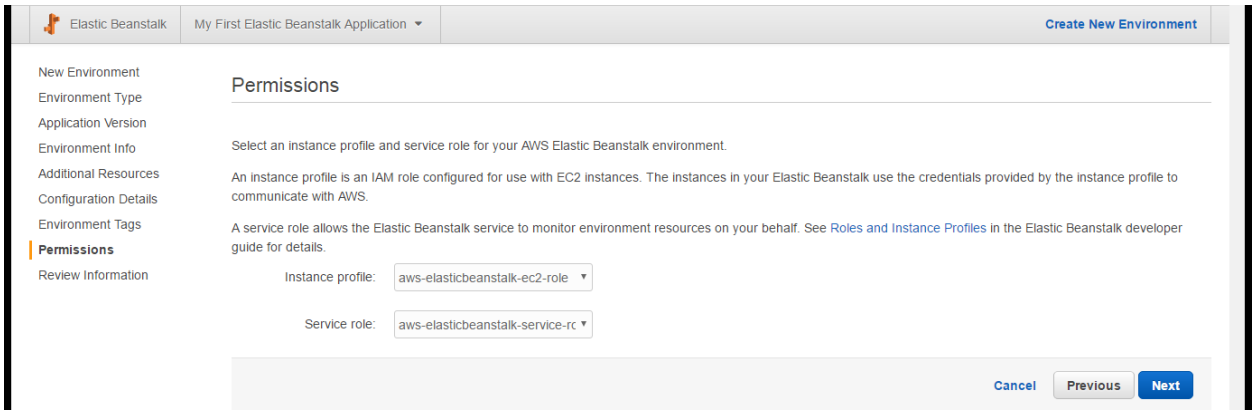
11. In Configuration Details page, for instance select 't1.micro'. Select key pair name provided to you. Put your email address. In Health reporting system type put 'Basic'. For root volume type select magnetic. Type 8 in root volume size. Click Next.



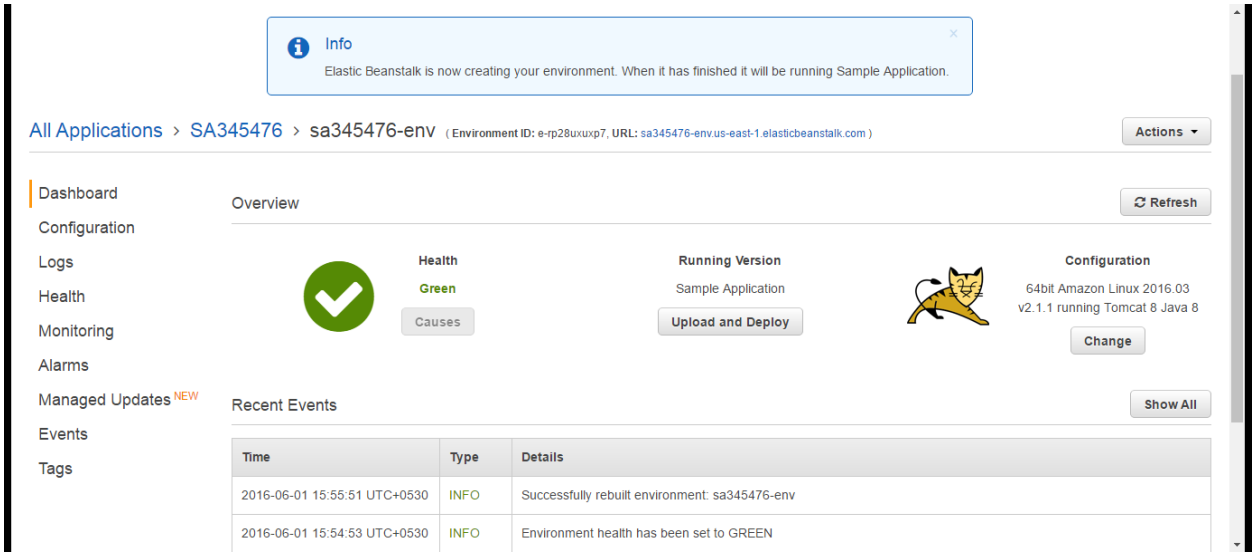
12. In Environment Tags page, put UserId and your WiproID for key and value. Click Next



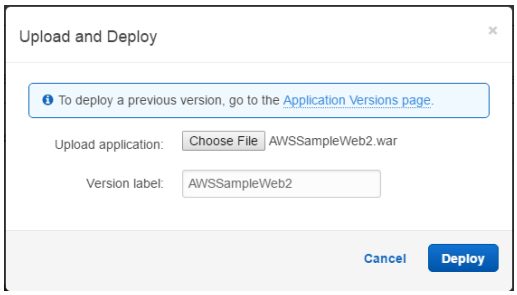
13. In Permission page, don't change anything. Click Next



14. In Review page, review details and click on Launch. Wait for the environment to be created. You can see all the task of creating server, installing software etc. are being done by AWS.



15. You can see the url for accessing the application starting with you WiproId. Click on that URL to see your application running on AWS environment.
16. To modify the application you have deployed click on Upload and Deploy button. Update you application in local eclipse. Export new war file. Upload it. Put new version name. Click Deploy. Wait for it to get deployed.



17. Access the URL again. You can see your changes in the application getting reflected.
18. Delete the Application after you have tested your changes
19. Congratulations!! You have successfully deployed, and tested and removed your application in AWS platform.