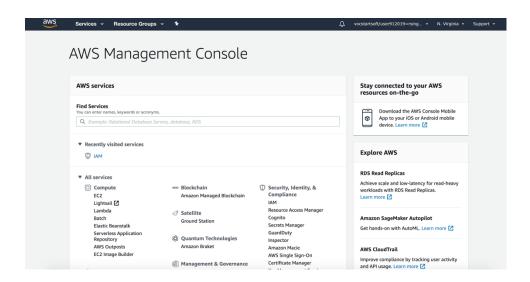
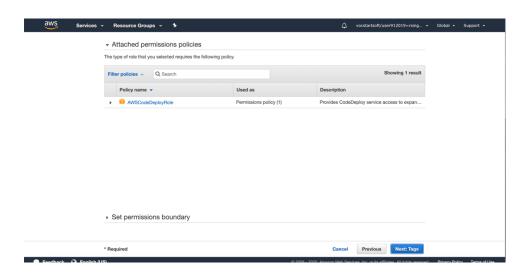
Lab- 1 Using AWS Services

1. Created IAM (Identity Access Management) roles:

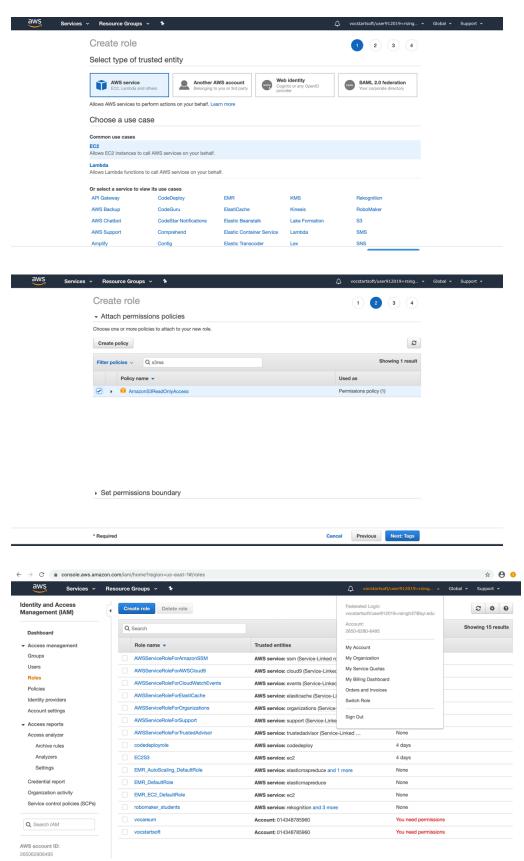
Selected AWS IAM and then roles



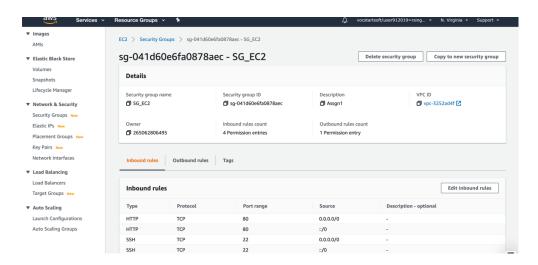
a. Created CodeDeploy Service role



b. Created EC2 Service Role

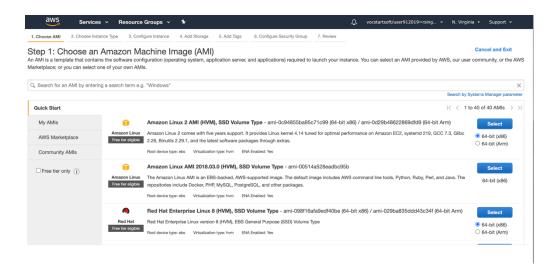


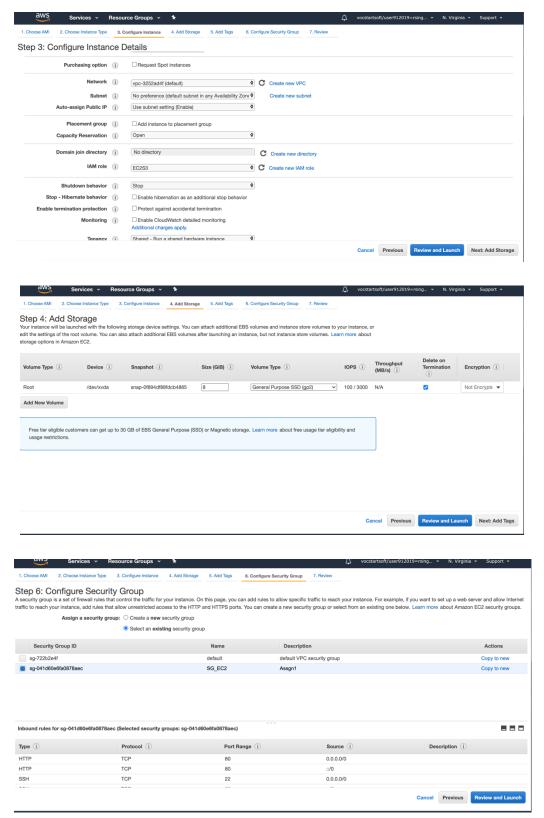
2. Created Security Groups SG_EC2 with inbound rule 'SSH' as type and source selected as 'anywhere' with the same outbound rules. Adding another inbound rule 'HTTP' and source 'anywhere'



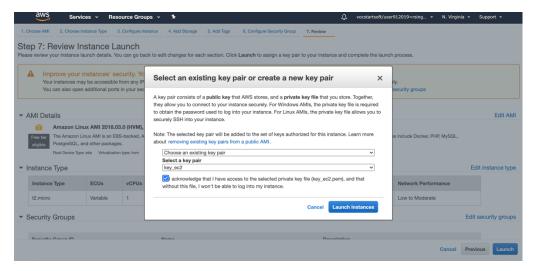
3. Launching EC2 Instance:

Selected instances and launch instance. Select second AMI named as Amazon Linux AMI 2018.03.0. Then selected 't2.micro' followed by selecting 'EC2S3' for IAM role. Added a script to install codedeploy agent on the EC2 instance, added storage and tags. Then added tag with "Name" in the 'Key' column and "Web Server" in the 'Value' column and then configured the security group with the previously created 'SG_EC2'.

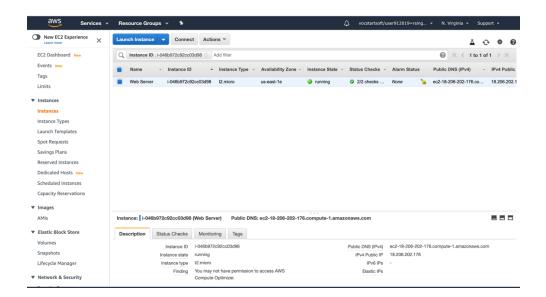




Downloaded the key_ec2 key pair which is a .pem file and then clicked on launch instances.



The EC2 instance is running



4. Connecting to instances using SSH:

```
Last login: Thu Sep 3 22:44:58 on ttvs000
The default interactive shell is now zsh.

To update your account to use zsh, please run 'chsh -s /bin/zsh'.

For more details, please visit https://support.apple.com/kb/HT288950.

[[base] Rashikas-Air:- rashikasingh$ chmod 400 key_ec2.pem
chmod: key_ec2.pem: No such file or directory

[[base] Rashikas-Air:Downloads rashikasingh$ cdd /Users/rashikasingh/Downloads

([base] Rashikas-Air:Downloads rashikasingh$ Smod 400 key_ec2.pem

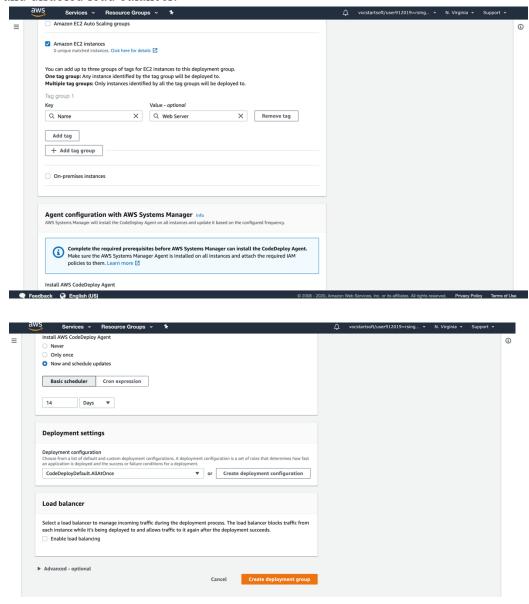
([base] Rashikas-Air:Downloads rashikasingh$ Smod 400 key_ec2.pem

([base] Rashikas-Air:Downloads rashikasingh$ Smod xey ec2.pem ec2-user@ec2-18-280-282-176.compute-1.amazonaws.com
               https://aws.amazon.com/amazon-linux-ami/2818.03-release-notes/
11 package(s) needed for security, out of 17 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-40-30 ~18 sudo yum install -y httpd
[loaded plugins: priorities, update-mord, upgrade-helper
Dependencies Resolved
    Package
                                                                          Version
                                                                                                                                 Repository
                                                                                                                                                                      Size
  Installing:
 2.2.34-1.16.amzn1
                                                                   1.5.2-5.13.amzn1
1.5.4-6.18.amzn1
1.5.4-6.18.amzn1
2.2.34-1.16.amzn1
                                                                                                                                 amzn-main
amzn-main
amzn-main
amzn-main
    apr-util
apr-util-ldap
httpd-tools
  Transaction Summary
  Install 1 Package (+4 Dependent packages)
 Total download size: 1.5 M
Installed size: 3.6 M
Downloading packages:
(1/5): apr-util-1dap-1.5.4-6.18.amzn1.x86_64.rpm
(2/5): apr-1.5.2-5.13.amzn1.x86_64.rpm
(3/5): httpd-rools-2.2.34-1.16.amzn1.x86_64.rpm
(4/5): apr-util-1.5.4-6.18.amzn1.x86_64.rpm
```

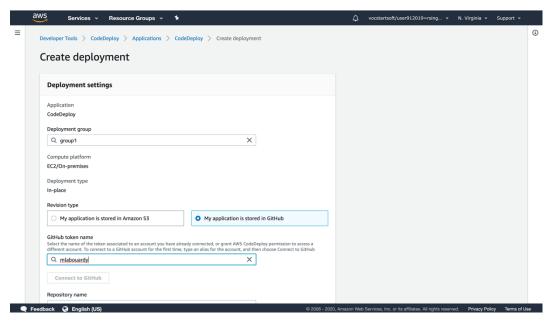
Setting the EC2 to host page by entering commands in terminal.

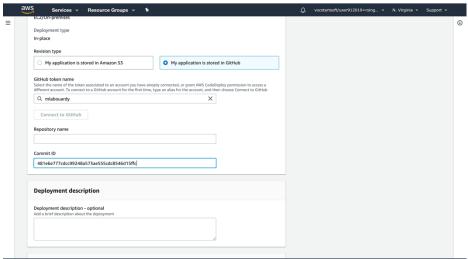
5. Setting CodeDeploy:

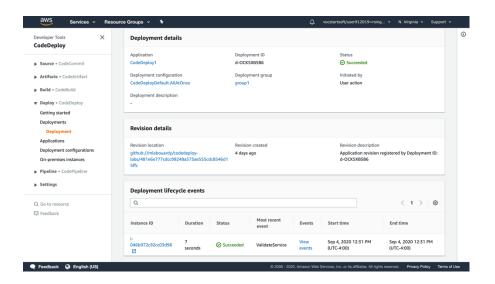
Created a new application using CodeDeploy, selected EC2/on-premise for Application name. Created deployment group by selecting 'codedeployrole' under 'Service role' and 'In-place' under 'Deployment type'. Selected Amazon EC2 instances in the Environment configuration and Name as Key and Web Server as Value. Selected code deploy all at once and disabled load balancer.



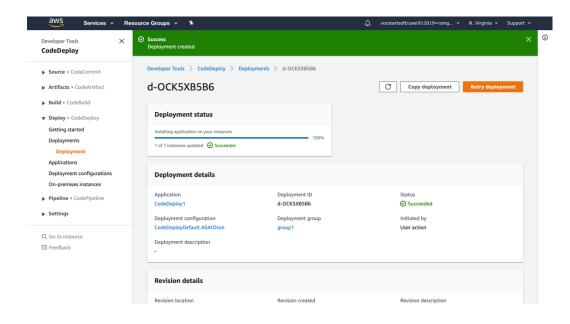
Created deployment by selecting my application is stored in github and entered username and github credentials.

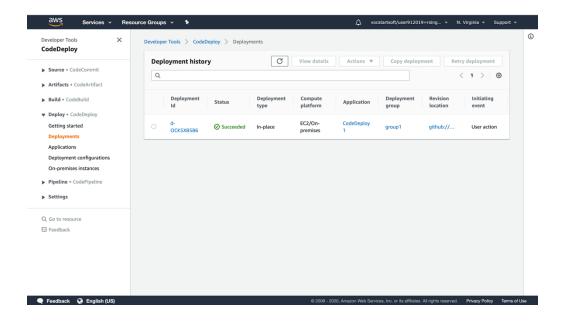






The deployment is successful.





Using IPV4 Public IP of the EC2 instance in the browser, the following page got displayed.

