Semester: V
Academic Year: 2023-24
Class / Branch: TE IT
Subject: Advanced Devops Lab (ADL)
Name of Instructor:Prof.Manjusha Kashilkar

Name of Student:
Student ID:

EXPERIMENT NO. 01

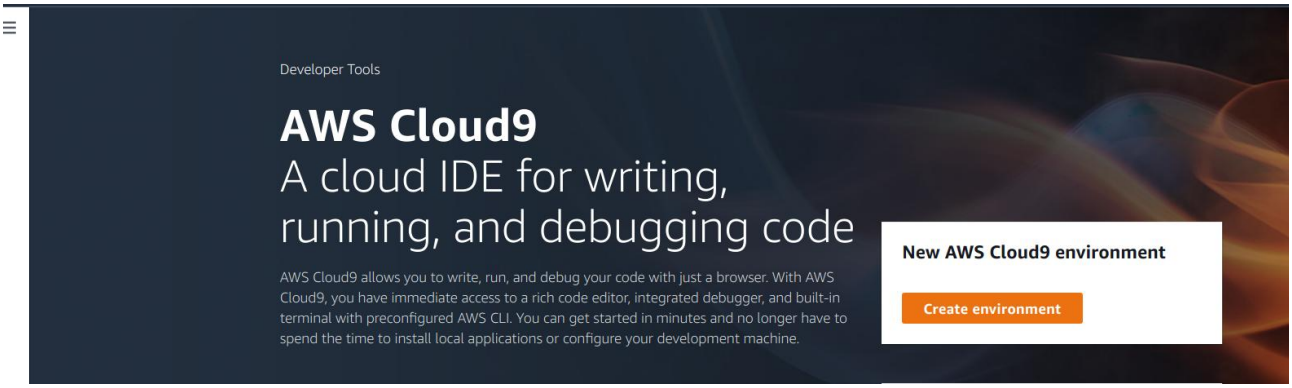
Aim: To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.

Steps:

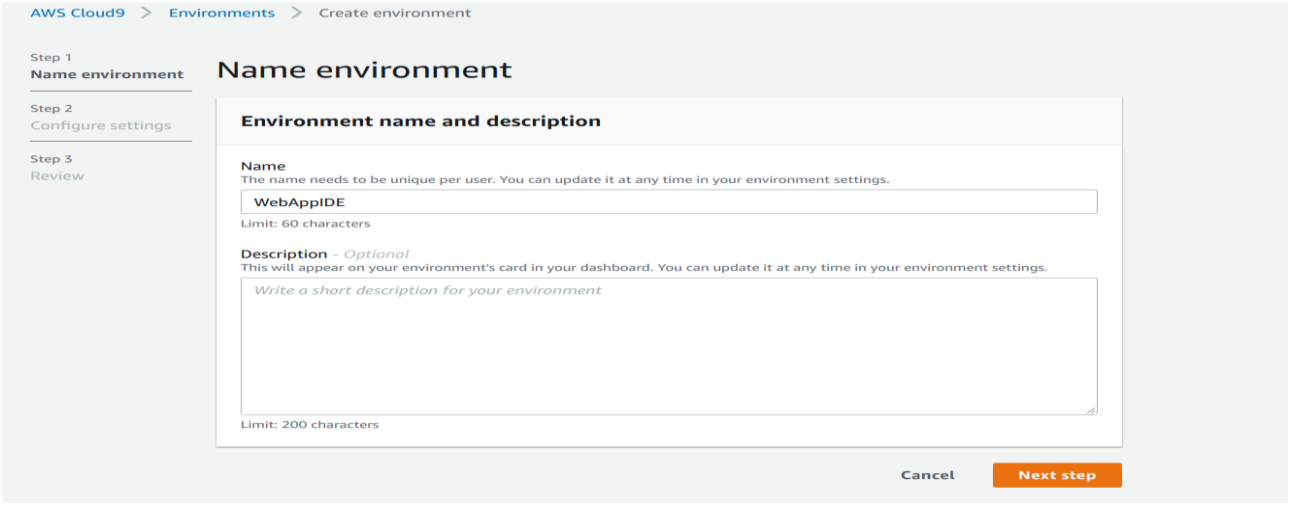
1. Login with your AWS account.

2. Navigate to Cloud 9 service from Developer tools section as below:

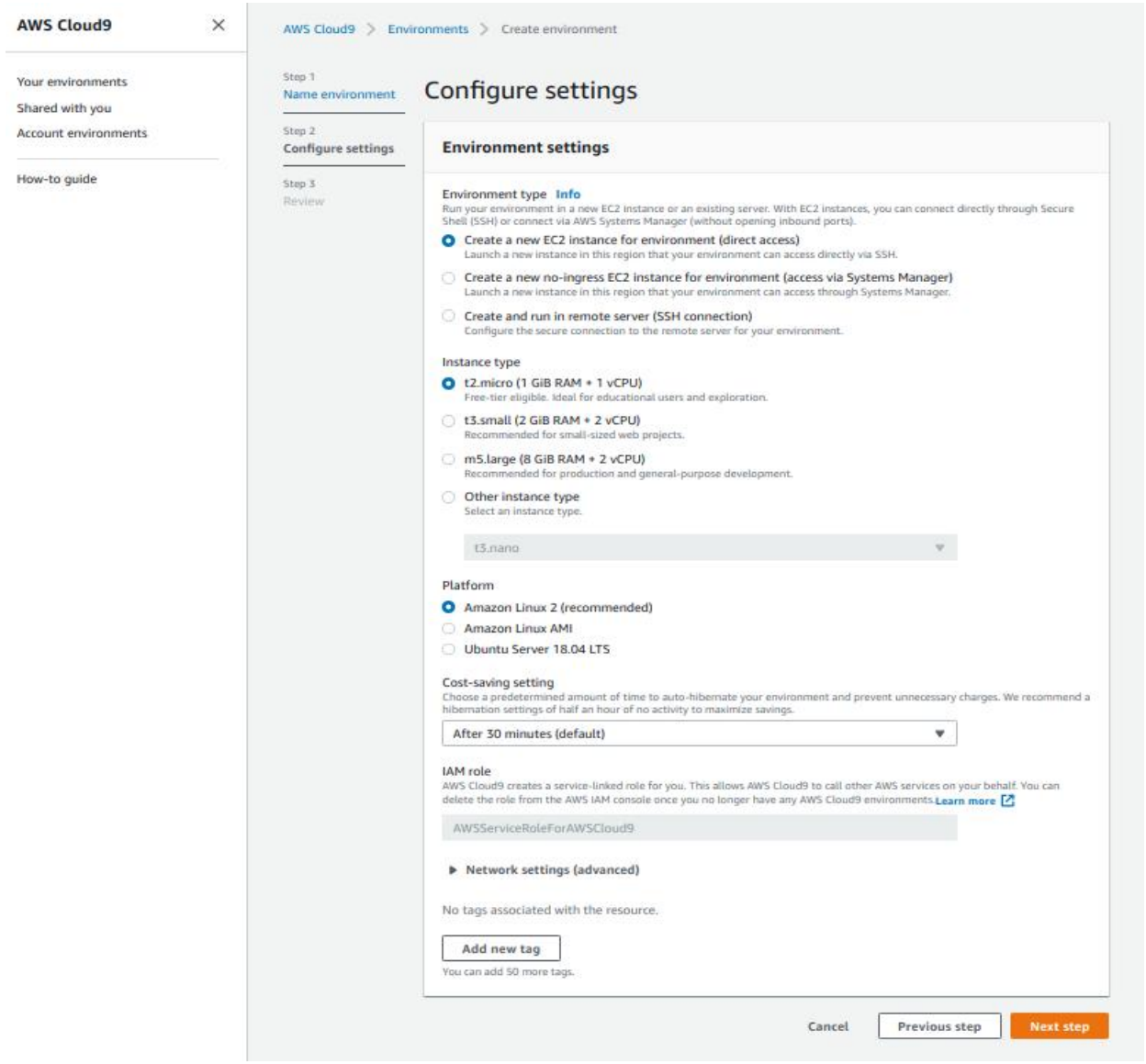
3. Click on Create Environment :



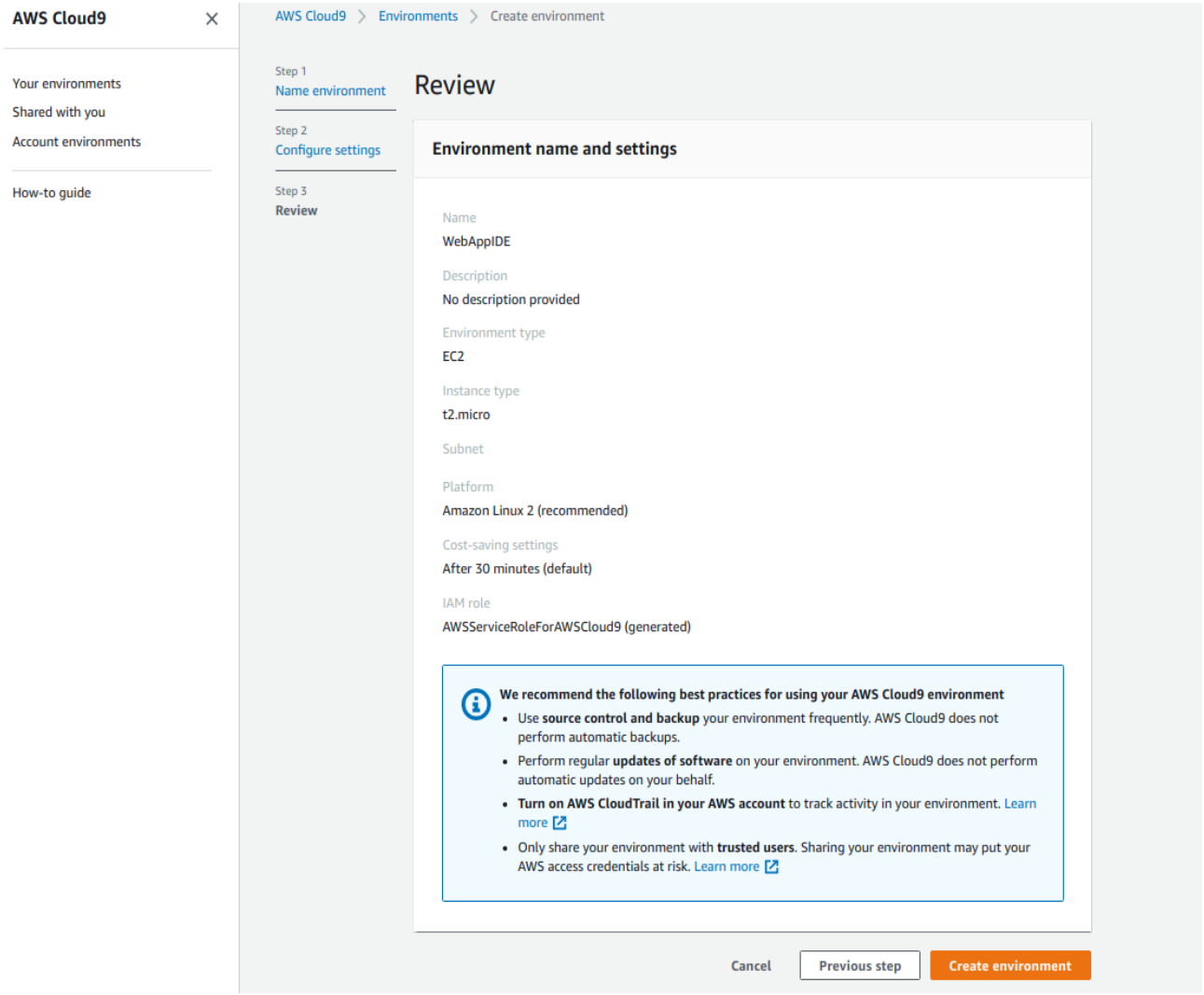
4. Provide name for the Enviornment (WebAppIDE) and click on next.

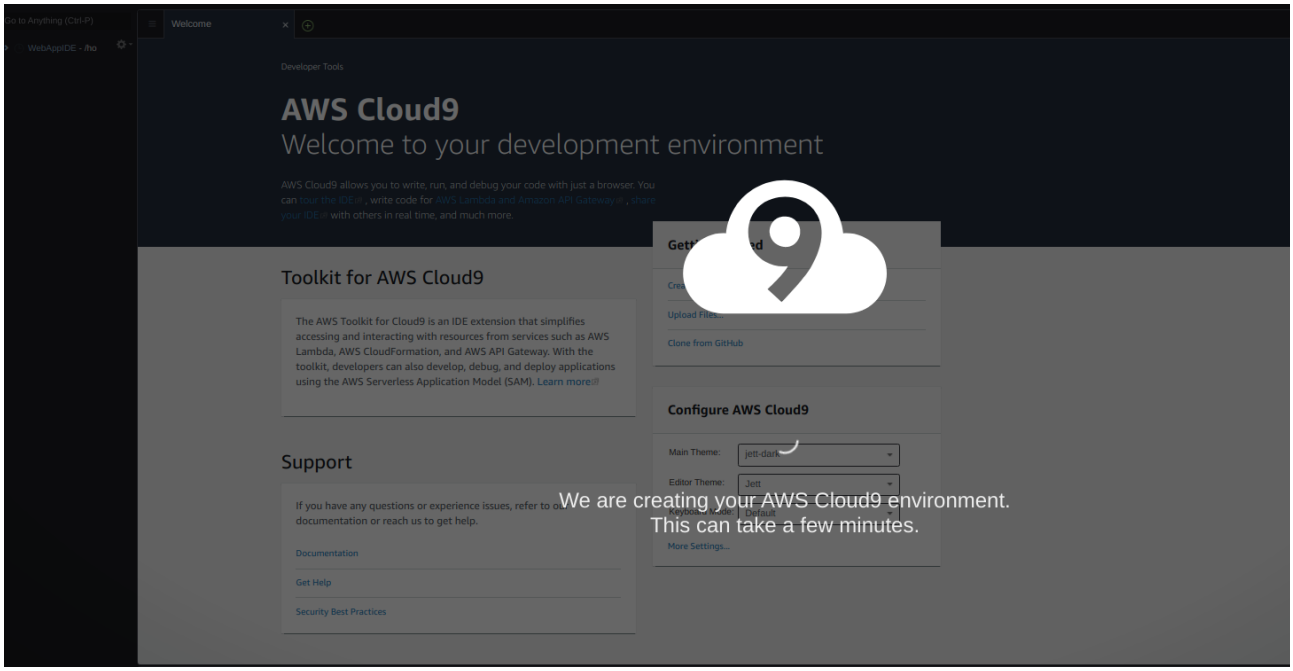


5. Keep all the Default seetings as shown in below:



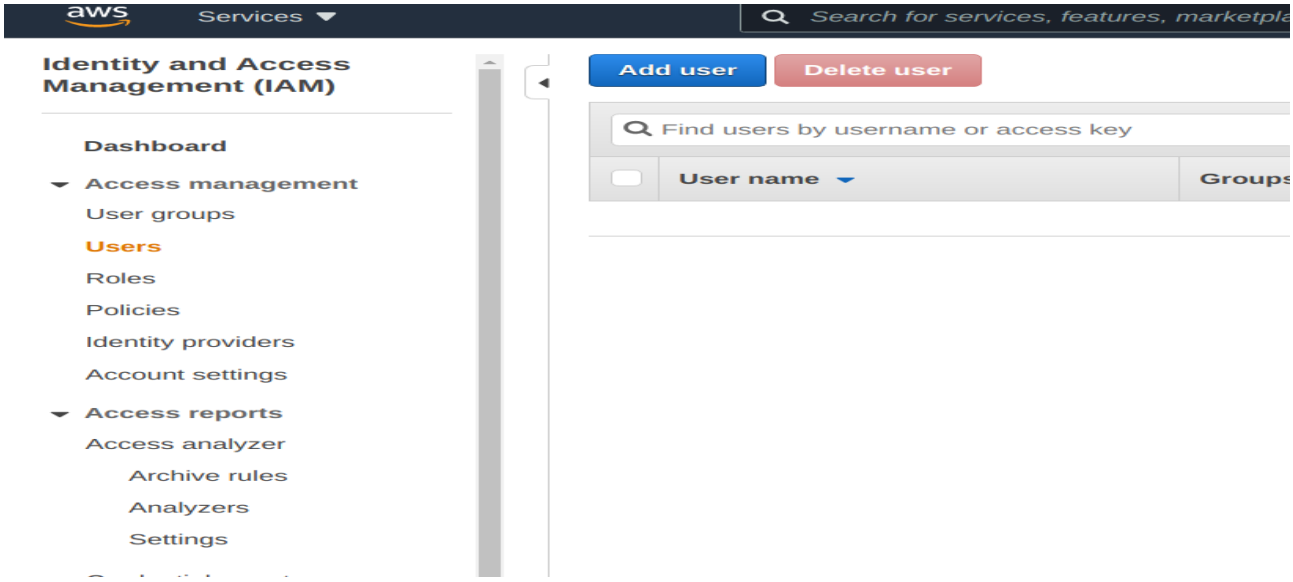
6. Review the Enviornment name and Settings and click on Create Enviornment:


AWS Cloud9
Your environments
Shared with you
Account environments
How-to guide
AWS Cloud9 > Environments > Create environment
Step 1
Name environment
Step 2
Configure settings
Step 3
Review
Review
Environment name and settings
Name
WebAppIDE
Description
No description provided
Environment type
EC2
Instance type
t2.micro
Subnet
Platform
Amazon Linux 2 (recommended)
Cost-saving settings
After 30 minutes (default)
IAM role
AWSServiceRoleForAWSCloud9 (generated)
We recommend the following best practices for using your AWS Cloud9 environment
Use source control and backup your environment frequently. AWS Cloud9 does not perform automatic backups.
Perform regular updates of software on your environment. AWS Cloud9 does not perform automatic updates on your behalf.
Turn on AWS CloudTrail in your AWS account to track activity in your environment. Learn more
Only share your environment with trusted users. Sharing your environment may put your AWS access credentials at risk. Learn more
Cancel
Previous step
Create environment

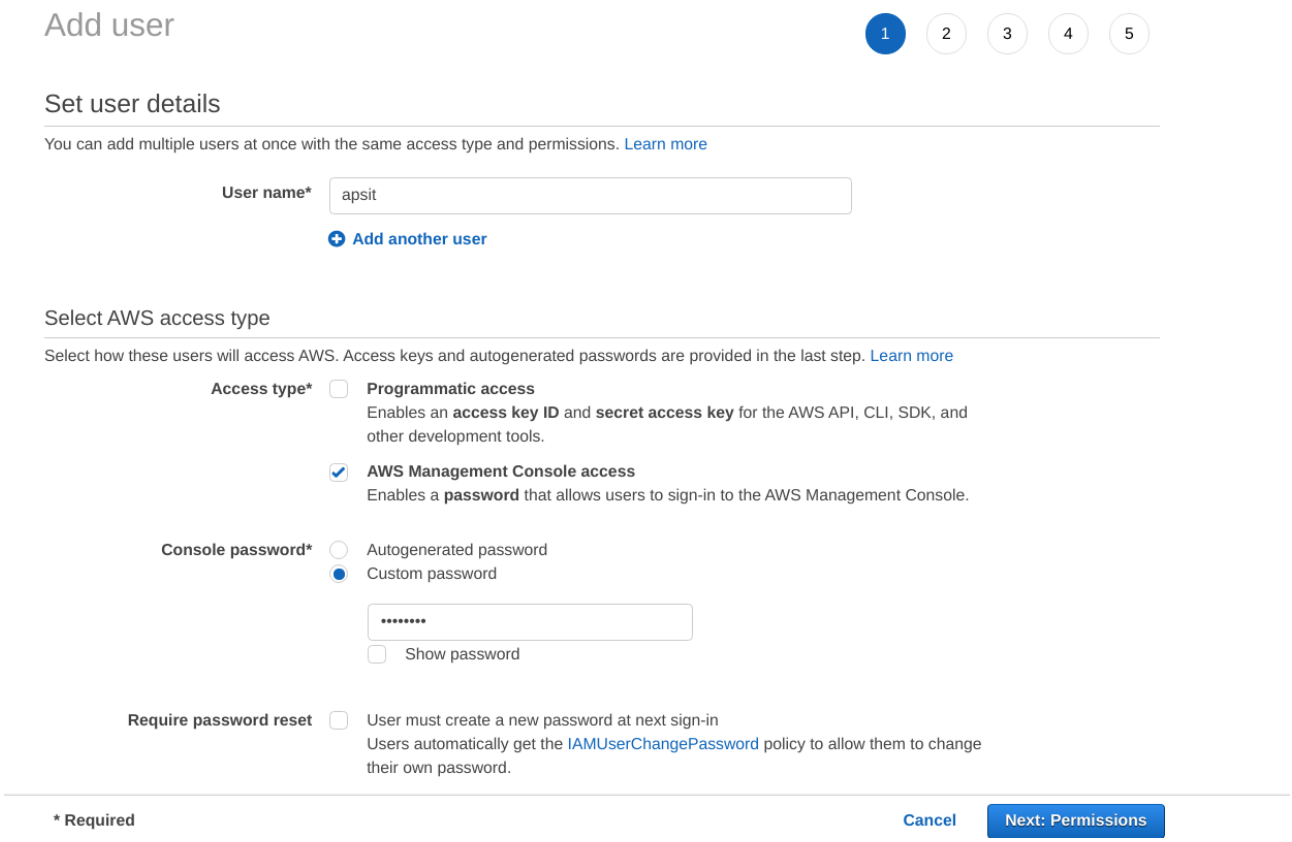


It will take few minutes to create aws instance for your Cloud 9 Enviornment.

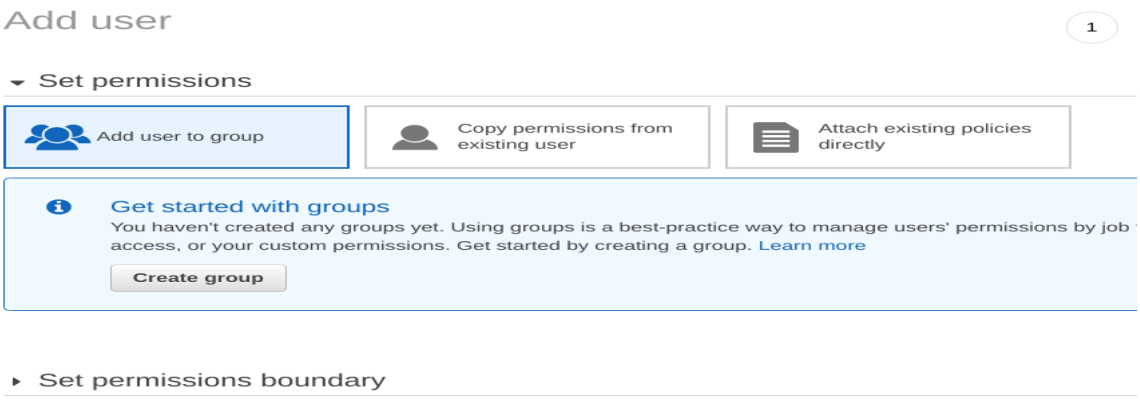
7. Till that time open IAM Identity and Access Management in order to Add user In other tab.



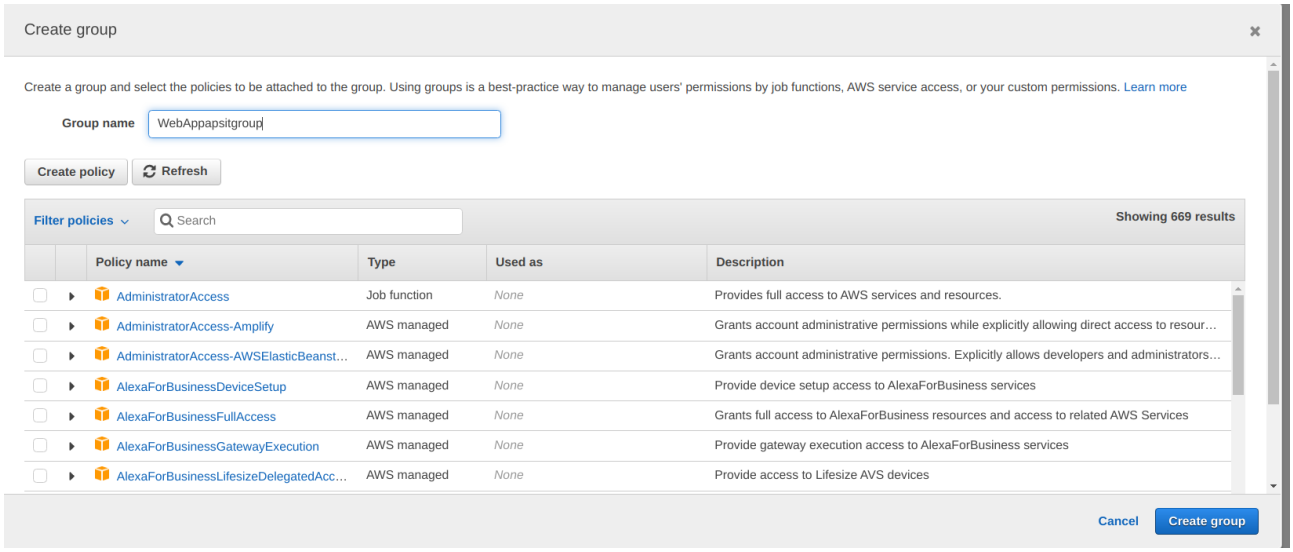
8. Add user provide manual password if you want and click on Next permission tab.



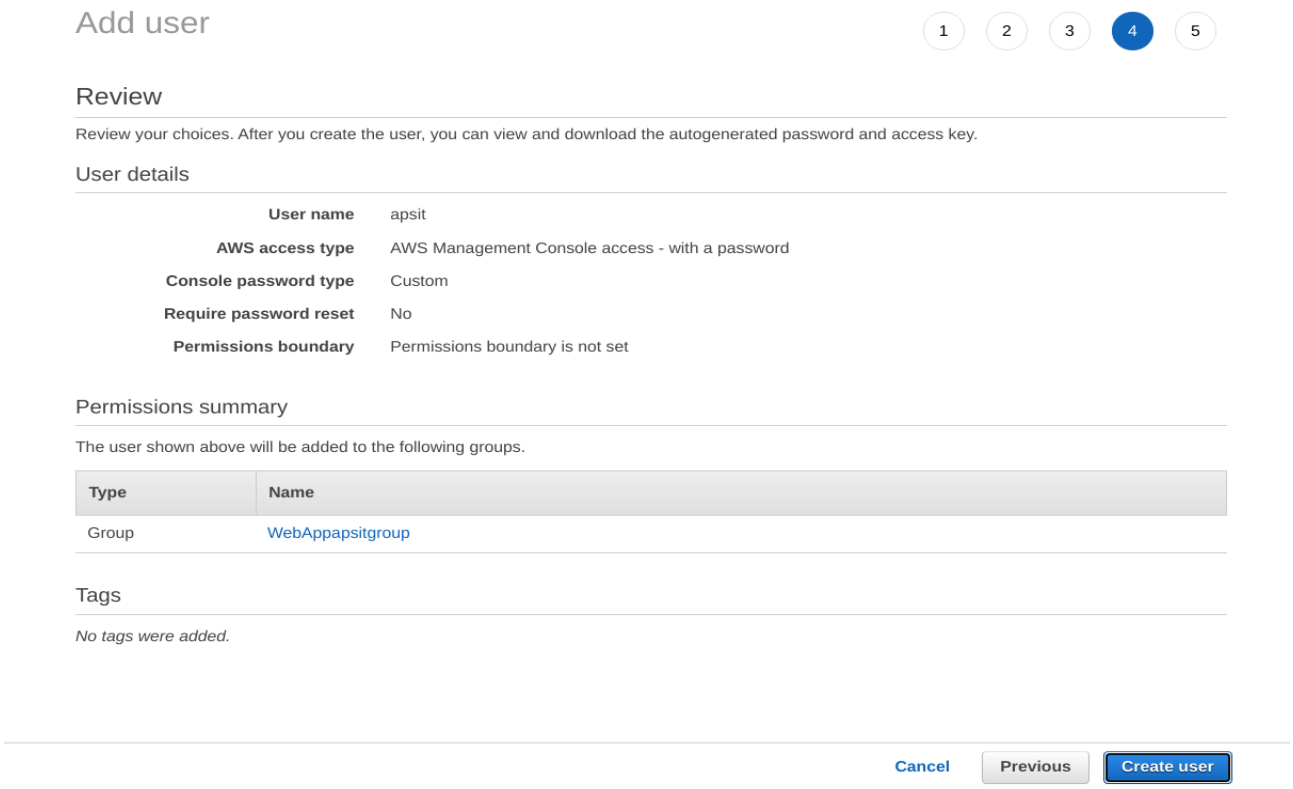
9. Click on Create group



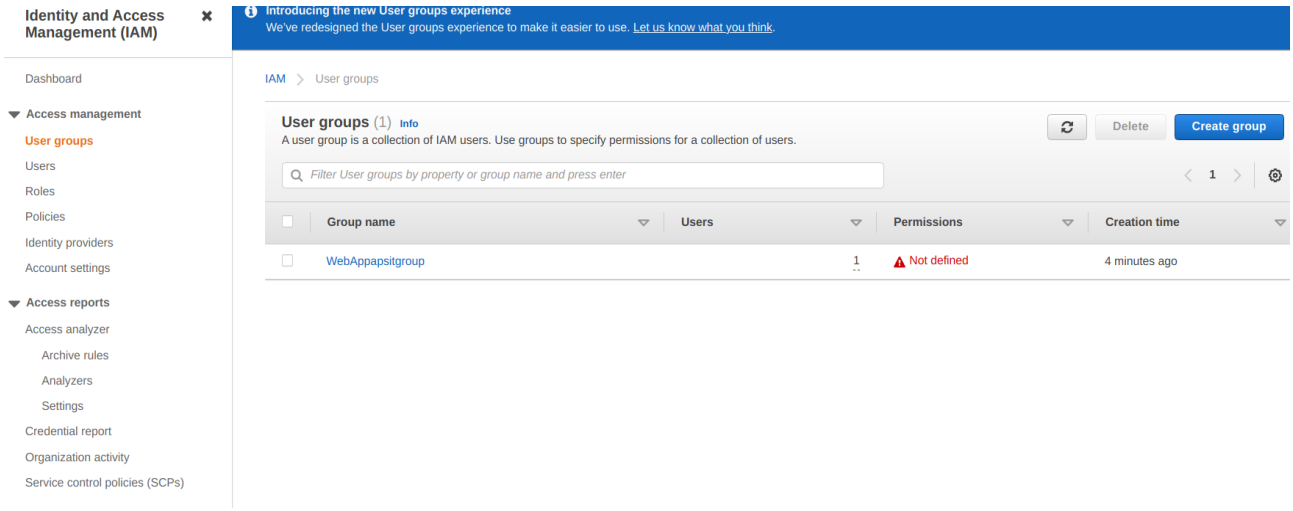
10. Provide group name and click on create group.



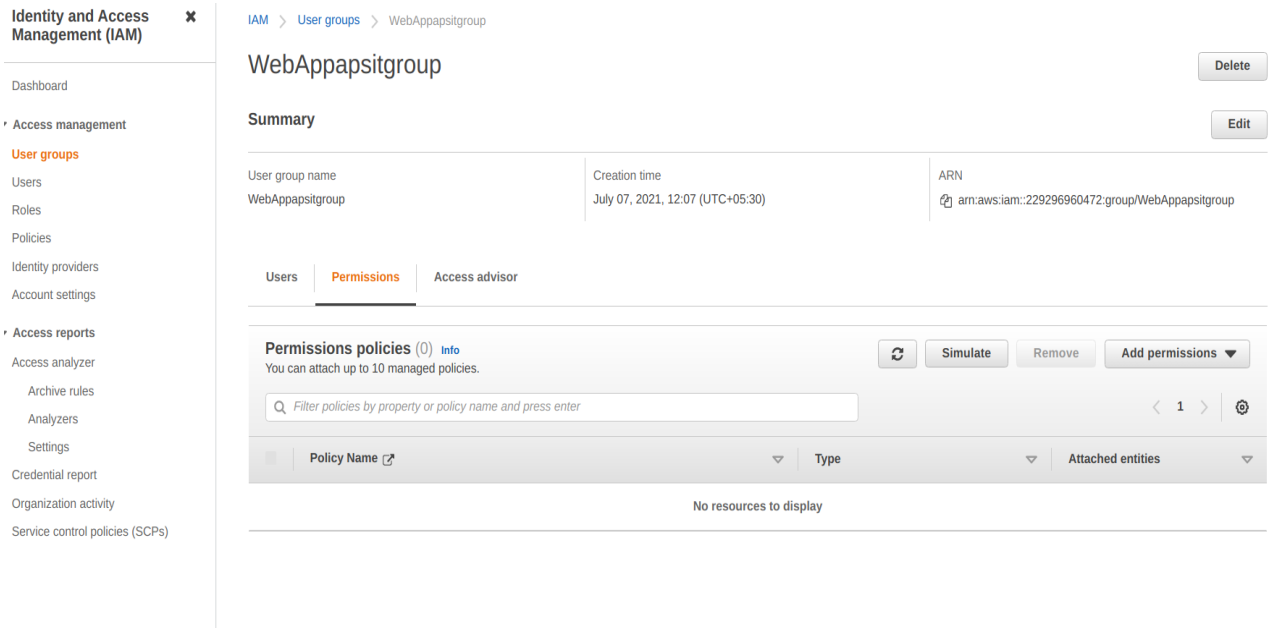
11. After that group is created click on next if u want to provide tag else click on Review for user settings and click on create user as shown in fig.



12. Now close that window and Navigate to user Groups from left pane in IAM.

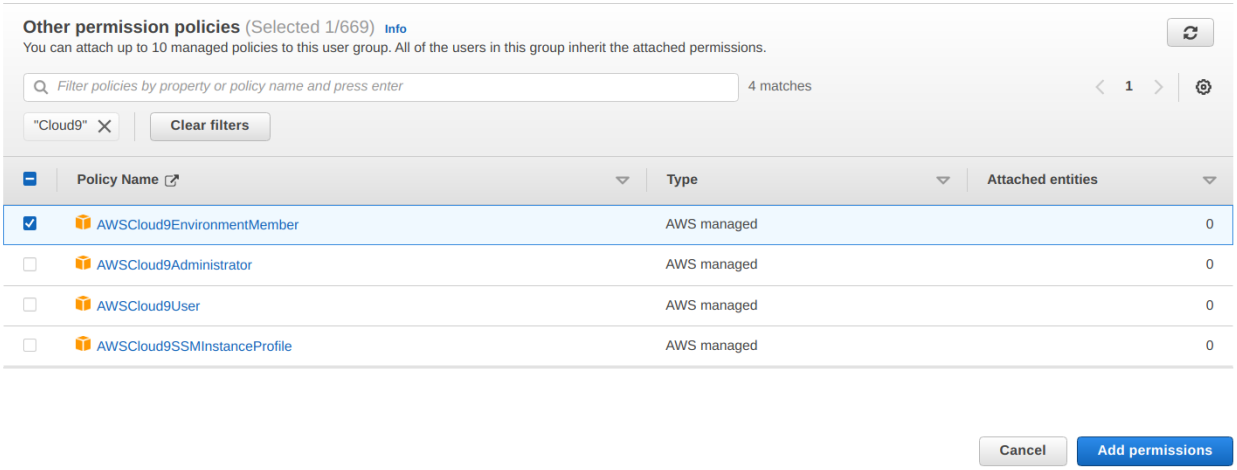


13. click on your group name which you have created and nevigate to permission tab as shown:

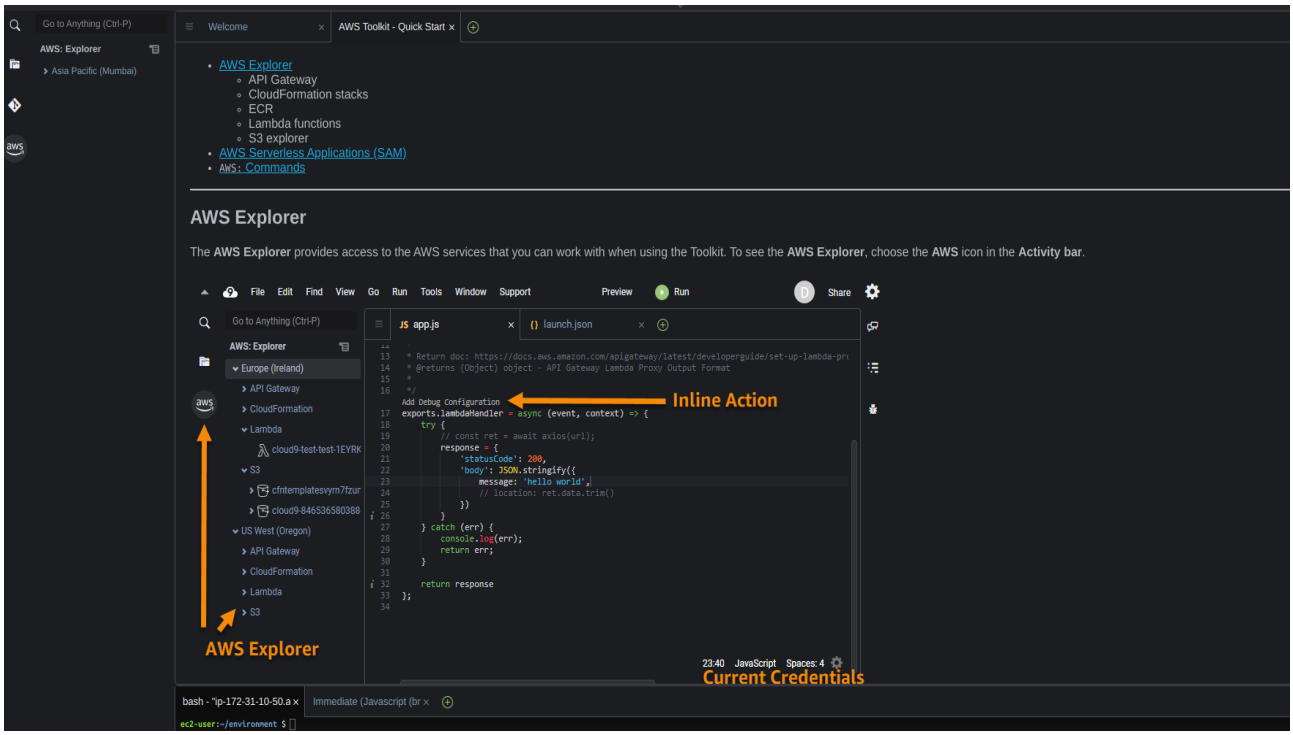


14. Now click on Add permission and select Attach Policy after that search for Cloud9

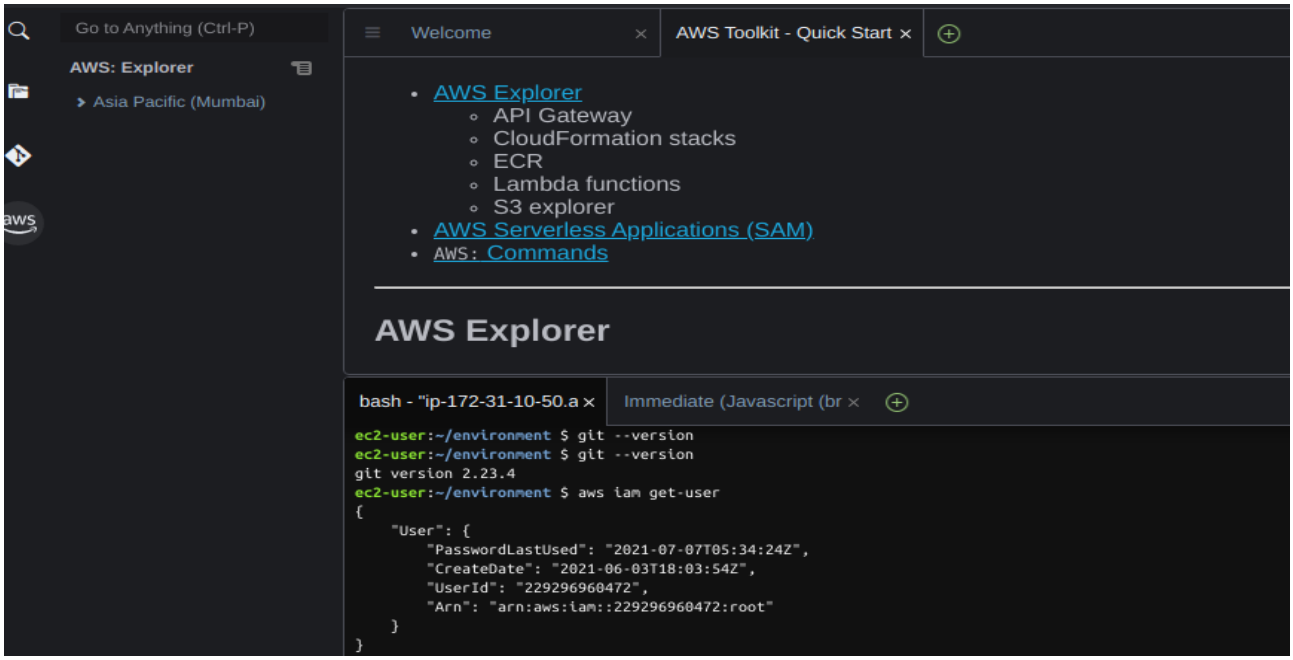
related policy and select Awscloud9EnviornmentMember policy and add it.



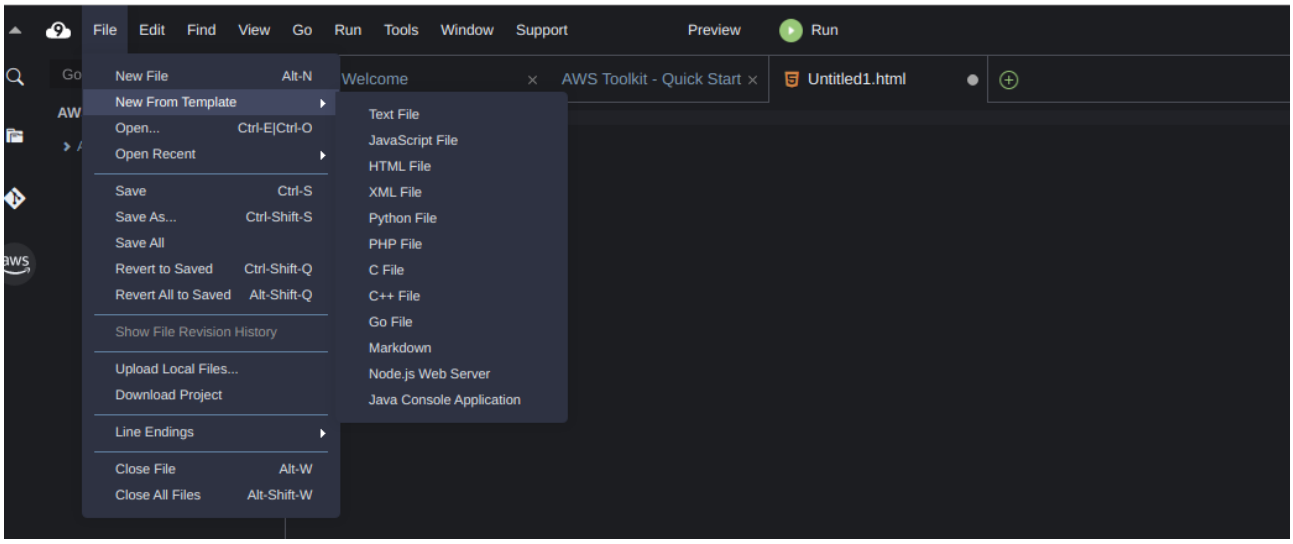
15. now we move towards our cloud9 IDE Enviornment tab it shows as shown :



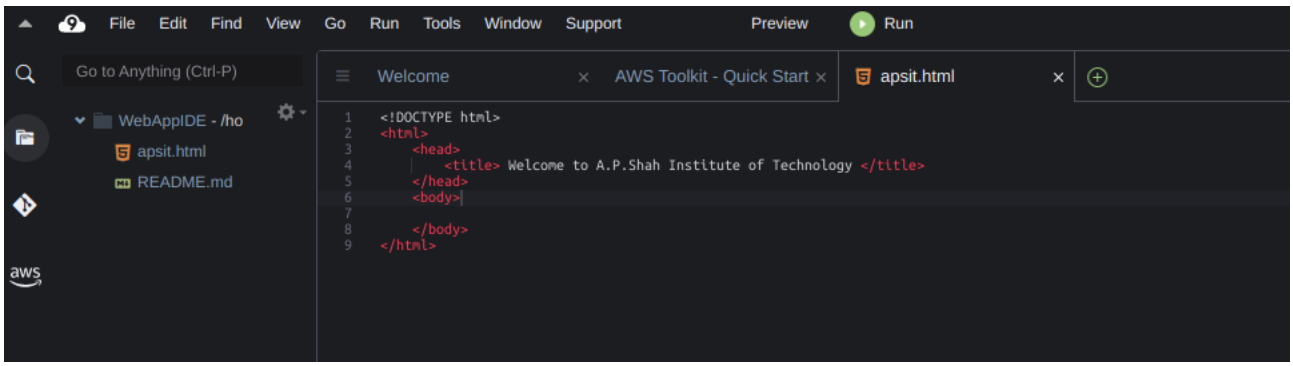
16. If you check at bottom side Cloud9 IDE also giving you and aws CLI for command operations: as we here checked git version, iam user details and so on...



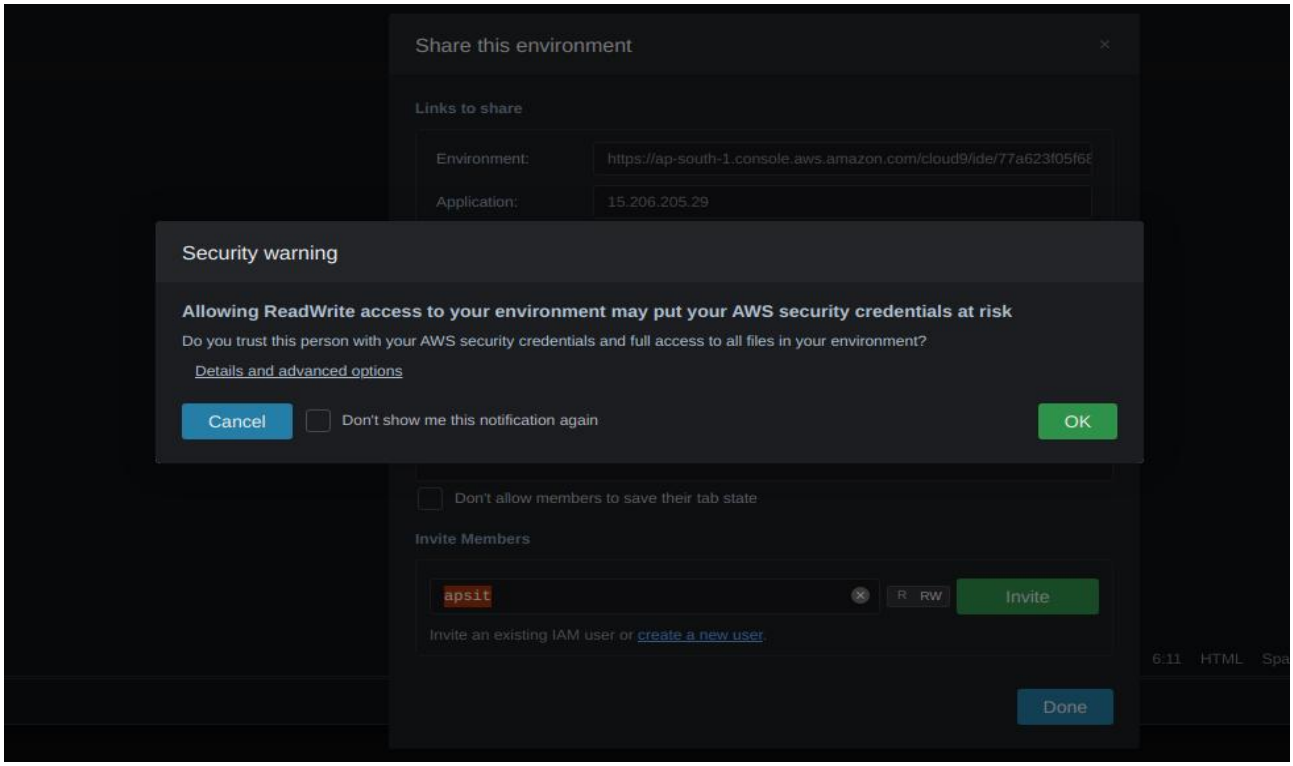
17. Now we will setup collaborative enviornment Click on File you can create new file or choose from template, here m opting html file to collaborate.

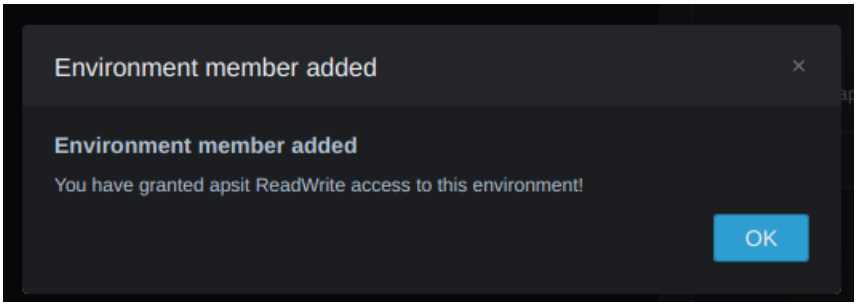


18. Edit html file and save it

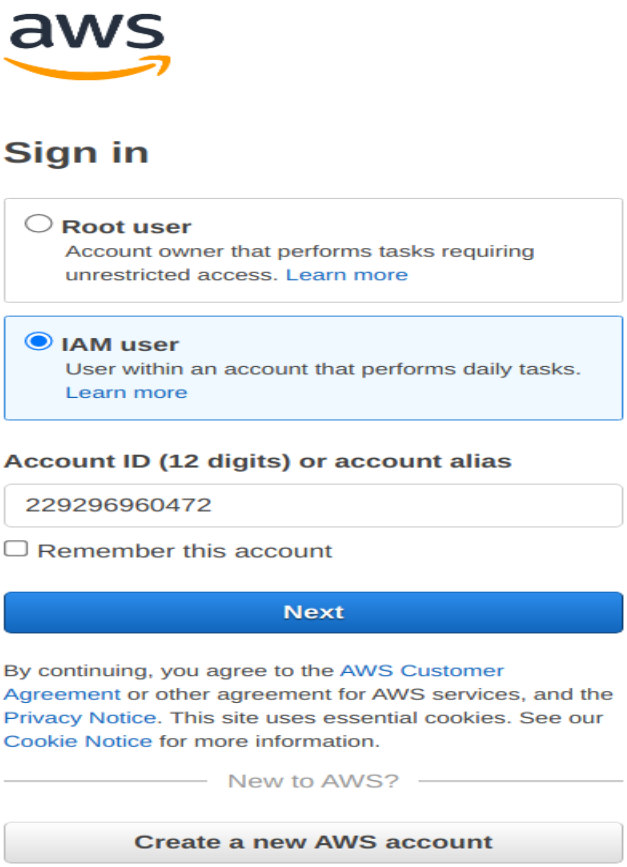


19. now in order to share this file to collaborate with other members of your team click on Share option on Roght Pane and username which you created in IAM before into Invite members and enable persmission as RW (Read and Write) and click on Done. Click OK for Security warning.

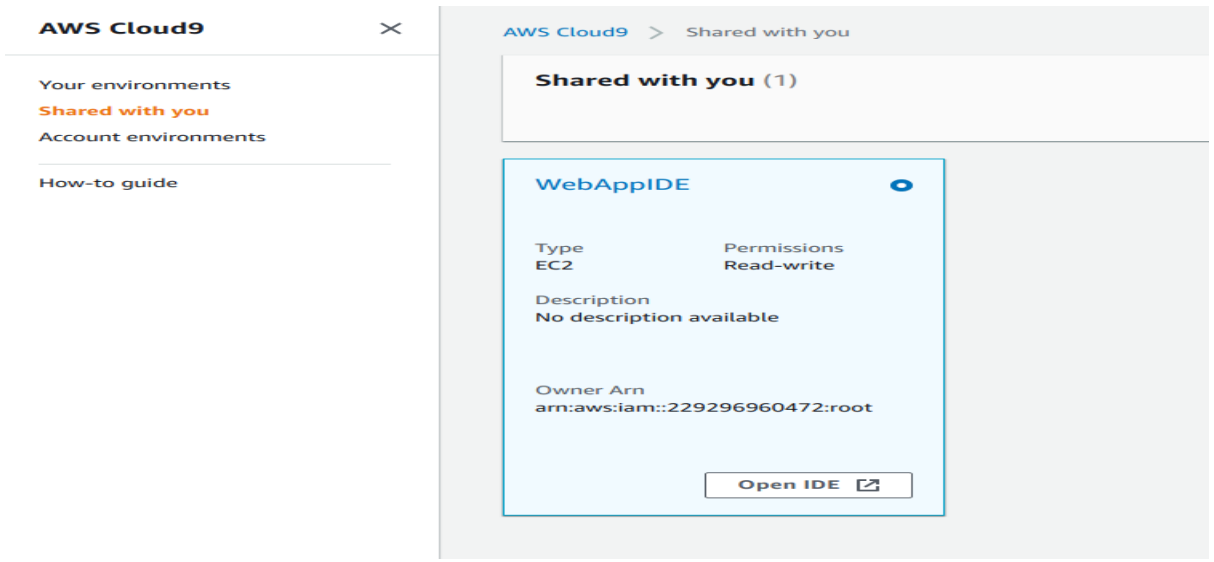




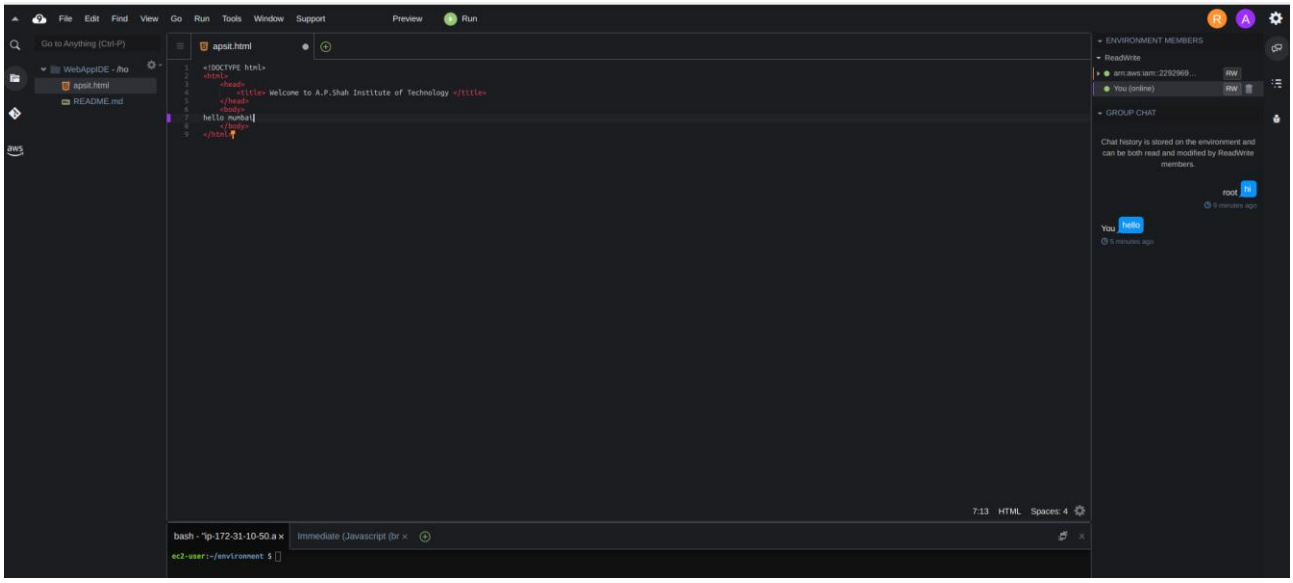
20. Now Open your Browsers Incognito Window and login with IAM user which you configured before.

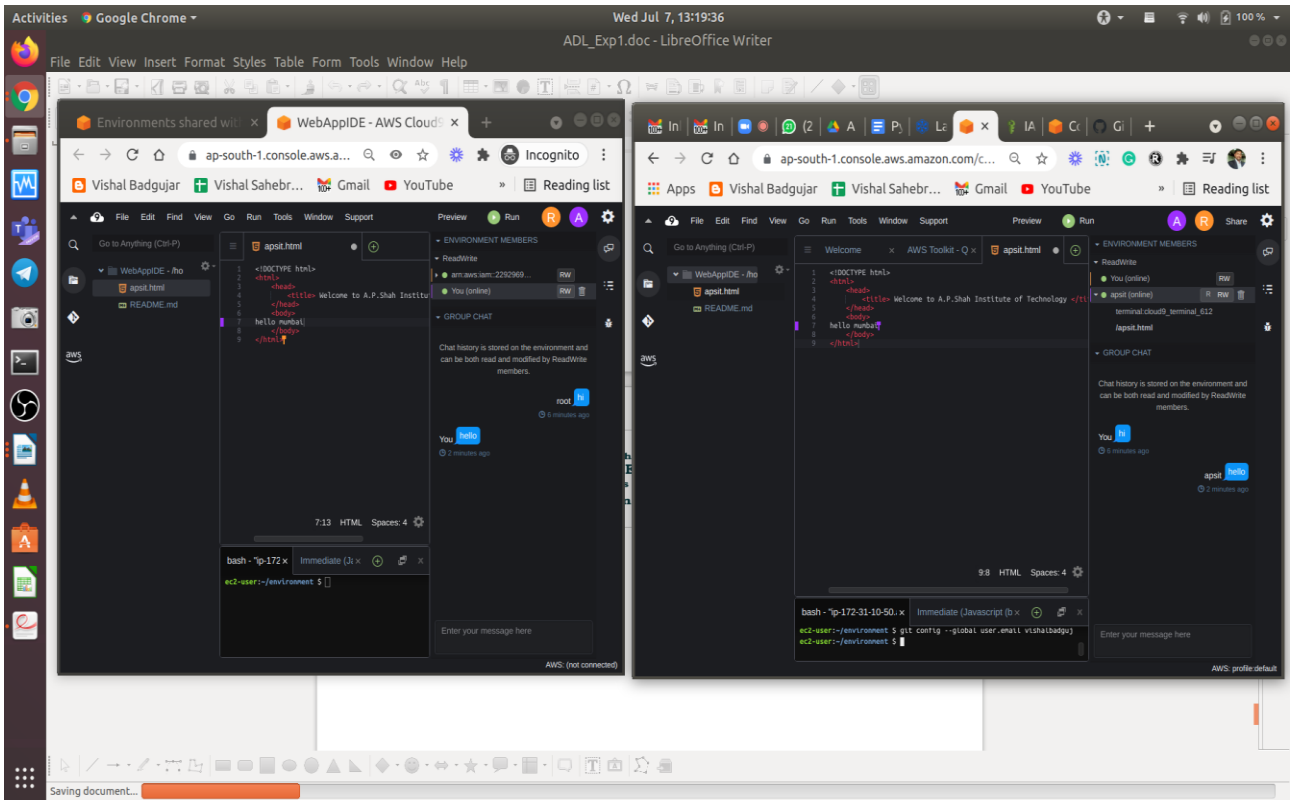


21. After Successful login with IAM user open Cloud9 service from dashboard services and click on shared with you enviornment to collaborate.

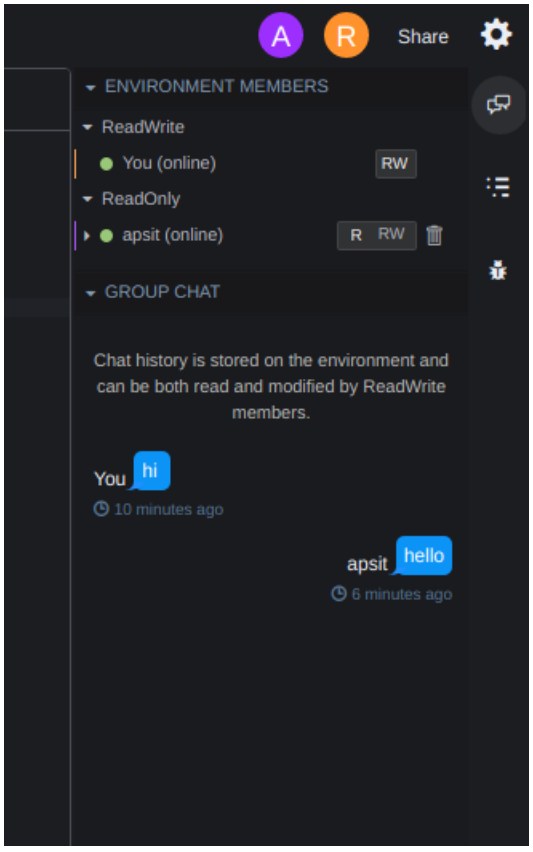


22. Click on Open IDE you will same interface as your other member have to collaborate in real time, also you all within team can do group chats as shown below:


File Edit Find View Go Run Tools Window Support
Preview
Run
apsit.html
<!DOCTYPE html>
<html>
<head>
<title> Welcome to A.P.Shah Institute of Technology </title>
</head>
<body>
hello mumbai
</body>
</html>
ENVIRONMENT MEMBERS
ReadWrite
You (online)
GROUP CHAT
Chat history is stored on the environment and can be both read and modified by ReadWrite members.
root hi
You hello
7:13 HTML Spaces: 4
bash - "ip-172-31-10-50.a
Immediate (Javascript (br
ec2-user:~/environment $


Activities
Google Chrome
Wed Jul 7, 13:19:36
ADL_Exp1.doc - LibreOffice Writer
File Edit View Insert Format Styles Table Form Tools Window Help
WebAppIDE - AWS Cloud
ap-south-1.console.aws.a...
Incognito
Vishal Badgujar
Vishal Sahebr...
Gmail
YouTube
Reading list
ap-south-1.console.aws.amazon.com/c...
Apps
Welcome
AWS Toolkit - Q
apsit.html
README.md
ENVIRONMENT MEMBERS
ReadWrite
GROUP CHAT
Chat history is stored on the environment and can be both read and modified by ReadWrite members.
root hi
You hello
apsit hello
Enter your message here
bash - "ip-172-31-10-50.
Immediate (Javascript (b
ec2-user:~/environment $ git config --global user.email vishalbadguj
ec2-user:~/environment $
AWS: profile:default
Saving document...

24. you can also explore settings where you can update permissions of your temmates as from RW to R only or you can remove user too.



For more info related to AWS-Cloud 9 you all can refer following Docs.

https://docs.aws.amazon.com/cloud9/latest/user-guide/aws-cloud9-ug.pdf

Conclusion: Write your own findings.