Requirements:

In AWS

1) Create user

[] go to IAM, select user and select create user, give username

for that user create inline policy.

[] select user.

[] In the user scroll down to the "Permissions" section.

[] in "add permissions" Click on the "Add inline policy" button .

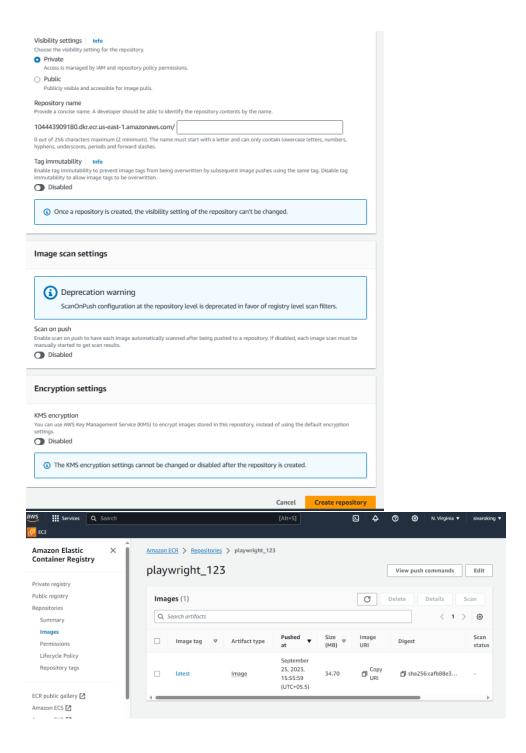
In the policy editor, choose the "JSON" tab to enter the policy code.

Replace the existing policy code with the JSON code provided earlier

```
"Statement": [

"Effect": "Allow",
"Action":
["ecr:*"],
"Resource": "*"}]}
[] next
[] Provide a name for the policy in the "Name" field.
[] Click on "Review policy" to verify the policy details.
```

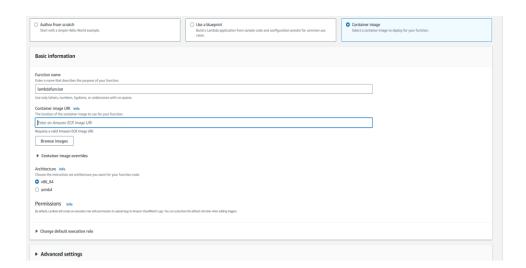
[]Finally, click on "Create policy" or "Attach policy" to attach the policy to the IAM user or role
For that user create access key and secrete access key (AWS CLI)
select security credentials
[] scroll down
[] select create access key
[] select command line interface
[] select confirm
[] next
[] type description
[] create access key
[] download the .csv there we get keys
2)create ECR
[] go to ECR, select create repository and mention repo name.



3)create lambda function.

[] to create lambda function we need ECR image URI, then only we can create lambda functions.

[] go to lambda function and selec	t create function
[] select container image .	
[] function name.	
[] copy and paste ECR image URI,	(ECR repo URI is different and ECR image URI is
different)	



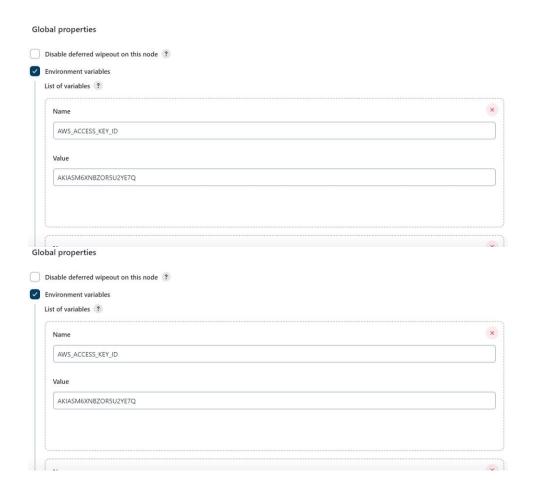
In server:

[] install Jenkins, Docker, GIT and install AWSCLI install version 2 (apt-get install awscli).

[] check version

[] chmod 777 /var/run/docker.sock

[] aws configure> to give AWS access and secret key in server and region.
<u>In Jenkins:</u>
[] add GitHub credentials.
username and PAT
[] add AWS access and secrete access key.
[] login to Jenkins dashboard and select manage Jenkins
[] select system and scroll down in Global properties select Environment variables
[] add
[] in name AWS_ACCESS_KEY_ID (we can give whatever)
[] in value AKIASM6XNBZOR5U2YE7 (I give access key id)
[] add
[] in name AWS_SECRET_ACCESS_KEY)
[] in value vK6JhW+lToii27wLUiDgnBLJnJzxSlayFD97Ect4 (<u>I give secret access key id what I created in aws</u>)



Install plugins: (related plugins)

- AWS Credentials
- Amazon ECR
- Docker Pipeline
- AWS lambda plugin
- Amazon EC2
- Docker
- GitHub

Pipeline code

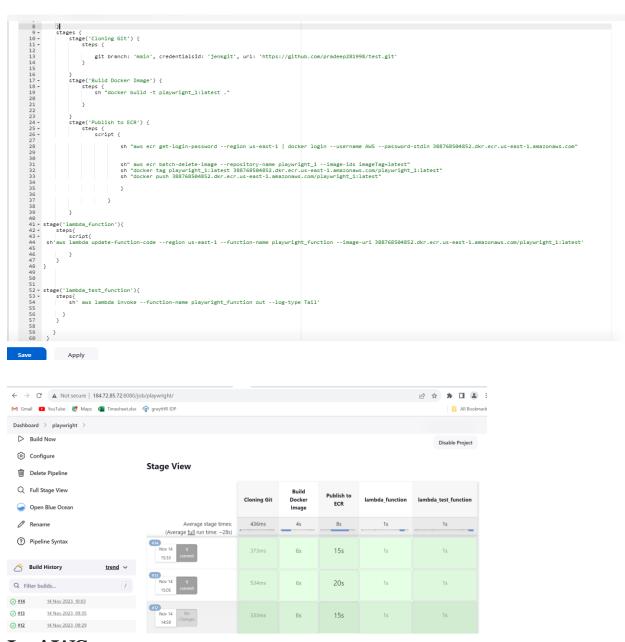
Stage 1: git clone

Stage 2: docker image build

Stage 3: ECR login and push docker image to ECR repo.

Stage 4: pushing ERC image to lambda function.

Stage 5: lambda test and AWS CloudWatch log creation.



In AWS:

After building the pipeline code we will get AWS CloudWatch log.

