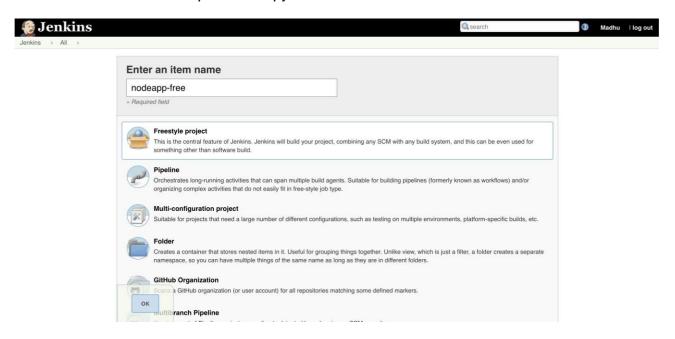
Push Docker image to ECR Repo

Freestyle

========

- 1. Navigate to the "Plugin Manager" screen, install the "Amazon ECR" install plugin without restart.
- 2. Create "New item" freestyle. Give any job name.

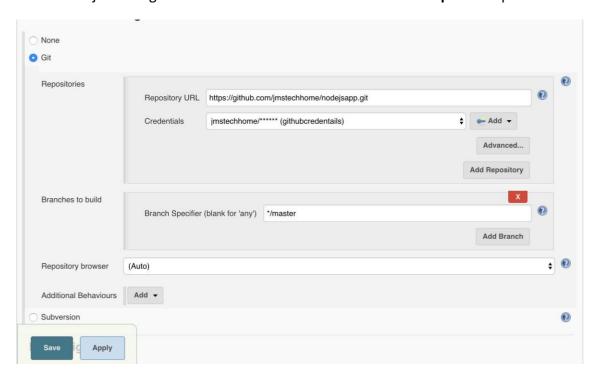


3. Amazon ECR plugin implements a Docker Token producer to convert Amazon credentials to Jenkins' API used by (mostly) all Docker-related plugins.

In this producer, you can select your existing registered Amazon credentials for various Docker operations in Jenkins, for sample using **CloudBees Docker Build and Publish plugin**:

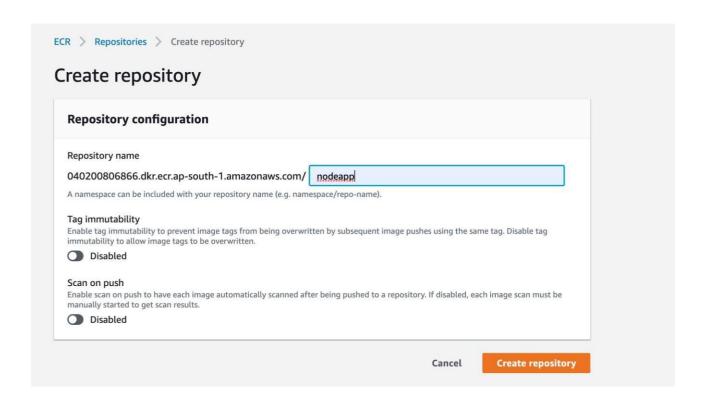


4. Go to Jenkins job configure in build section select **docker build and publish** option.





5. Add below details. Make sure before adding this details you must Crete a repo in ecr. And must be added aws credentials.



Now build the job and see the output.

If you see below error because of Jenkins user connect docker commands without sudo. Then you must add Jenkins user into docker group and restart the Jenkins.

\$ sudo usermod -aG docker jenkins

First time build. Skipping changelog.
[nodeapp-free] \$ docker build -t 040200806866.dkr.ecr.ap-south-1.amazonaws.com/nodeapp:latest --pull=true /var/lib/jenkins/workspace/nodeapp-free
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post http://%2Fvar%2Frun%2Fdocker.sock/v1.39/build?

buildargs=%7B%7D&cachefrom=%5B%5D&cgroupparent=&cpuperiod=0&cpuquota=0&cpusetcpus=&cpusetmems=&cpushares=0&dockerfile=Dockerfile &labels=%7B%7D&memory=0&memswap=0&networkmode=default&pull=1&rm=1&session=7mdlhblh2e33kjyiedgx7nbts&shmsize=0&t=040200806866.dkr _ecr_ap-south-1.amazonaws.com%2Fnodeapp%3Alatest&target=&ulimits=null&version=1: dial unix /var/run/docker.sock: connect:

Build step 'Docker Build and Publish' marked build as failure

Finished: FAILURE

Pipeline

=====

- 1. Create a pipeline job.
- 2. Write below declarative pipeline code.

```
pipeline {
 agent any
 environment
    VERSION = "${BUILD_NUMBER}"
    PROJECT = 'nodeapp'
    IMAGE = "$PROJECT:$VERSION"
    ECRURL = 'https://040200806878.dkr.ecr.ap-south-1.amazonaws.com'
    ECRCRED = 'ecr:ap-south-1:awscredentials'
  }
  stages {
   stage('GetSCM') {
    steps {
      // Get some code from a GitHub repository
      git 'https://github.com/jmstechhome/nodejsapp.git'
    }
    stage('Image Build'){
      steps{
         script{
            docker.build('$IMAGE')
         }
      }
    stage('Push Image'){
    steps{
      script
        {
          docker.withRegistry(ECRURL, ECRCRED)
            docker.image(IMAGE).push()
          }
```

```
}
}

post
{
   always
   {
    // make sure that the Docker image is removed
    sh "docker rmi $IMAGE | true"
   }
}
```



And go and check ecr repo the images is pushed or not.

If you basic auth credentials issue: please do below steps

sudo apt install awscli sudo apt-get install python3-pip sudo pip3 install --upgrade awscli aws configure eval \$(aws ecr get-login --no-include-email --region ap-south-1 | sed 's|https://||')

install "Docker Pipeline plugin" if you see below error

```
[Pipeline] End of Pipeline
groovy.lang.MissingPropertyException: No such property: docker for class: groovy.lang.Binding
       at groovy.lang.Binding.getVariable(Binding.java:63)
       at org.jenkinsci.plugins.scriptsecurity.sandbox.groovy.SandboxInterceptor.onGetProperty(SandboxInterceptor.java:270)
       at org.kohsuke.groovy.sandbox.impl.Checker$7.call(Checker.java:353)
       at org.kohsuke.groovy.sandbox.impl.Checker.checkedGetProperty(Checker.java:357)
       \verb|at org.kohsuke.groovy.sandbox.impl.Checker.checkedGetProperty(Checker.java:333)|\\
       at org.kohsuke.groovy.sandbox.impl.Checker.checkedGetProperty(Checker.java:333)
       at org.kohsuke.groovv.sandbox.impl.Checker.checkedGetProperty(Checker.java:333)
       \verb|at com.cloudbees.groovy.cps.sandbox.SandboxInvoker.getProperty(SandboxInvoker.java: 29)| \\
       \verb|at com.cloudbees.groovy.cps.impl.PropertyAccessBlock.rawGet(PropertyAccessBlock.java:20)|\\
       at WorkflowScript.run(WorkflowScript:21)
       at ___cps.transform___(Native Method)
       \verb|at com.cloudbees.groovy.cps.LValueBlock$GetAdapter.receive(LValueBlock.java:30)| \\
       at com.cloudbees.groovy.cps.impl.PropertyishBlock$ContinuationImpl.fixName(PropertyishBlock.java:66)
       at sun.reflect.GeneratedMethodAccessor312.invoke(Unknown Source)
       at \verb| sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)| \\
        at days lang mofflest Mothad daysks/Mothad days,400
```

Install Jenkins using custom Dockerfile

\$ vi Dockerfile FROM jenkins/jenkins:lts

USER root
RUN apt update -y && \
apt install -y python3-pip

RUN pip3 install awscli --upgrade

USER Jenkins

\$ docker build -t madhu jenkins:v1

\$ docker run -d --restart=always -u root -p 8080:8080 -p 50000:50000 -v \$(pwd)/Jenkins_data:/var/jenkins_home -v \$(which docker):/usr/bin/docker -v /var/run/docker.sock:/var/run/docker.sock -v /home/ec2-user/.docker/config.json:/root/.docker/config.json -v ~/.aws:/root/.aws --name jenkins madhu jenkins:v1