Jenkins Manual Approval Pipeline

```
Create Jenkins Pipeline
add description, SCM Poll, Discard Old Build configurations as per requirements.
Pipeline Script
 pipeline {
 agent any
 stages {
 stage('Build') {
 steps {
 echo 'This is Build Stage'
 stage('Test') {
 steps {
 echo 'This is Test Stage'
 }
 }
 stage('Approval'){
 steps{
timeout(time:15,unit:'MINUTES'){
 input message: 'Do you want to approve the Deployment?', ok: 'yes'
 }
 }
 stage('Deployment') {
 steps {
 echo 'Application Deployed'
 }
 }
 }
```

Save the Pipeline and click on build.

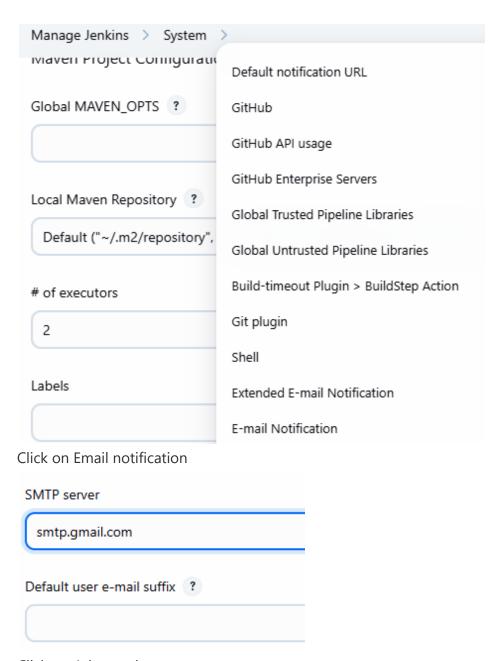
}

```
[Pipeline] timeout
Timeout set to expire in 15 min
[Pipeline] {
[Pipeline] input
Do you want to approve the Deployment?
yes or Abort
Approved by Sonam Soni
[Pipeline] }
[Pipeline] // timeout
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deployment)
[Pipeline] echo
Application Deployed
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

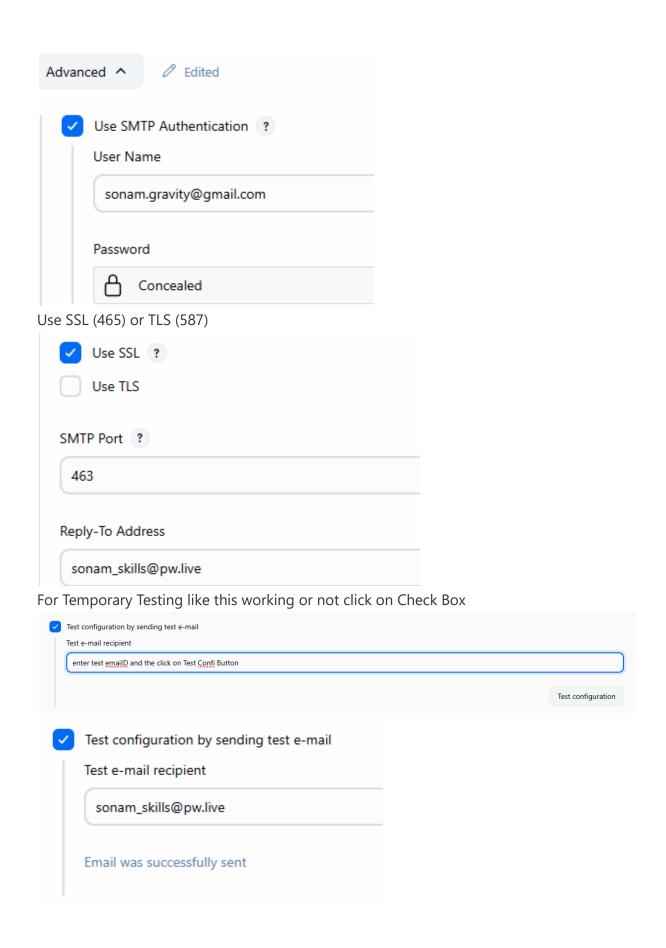
Click on yes for approve then only it can continue with deployment.

Configure Email Notification in Jenkins Pipeline

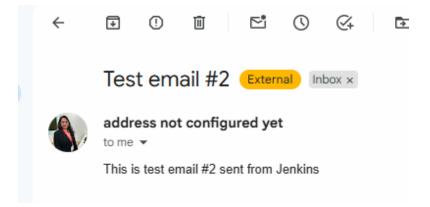
Manage jenkins --> System -->



Click on Advanced. click on SMTP Authentication:

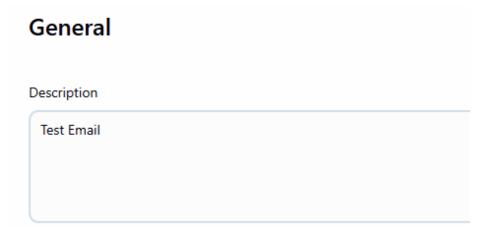


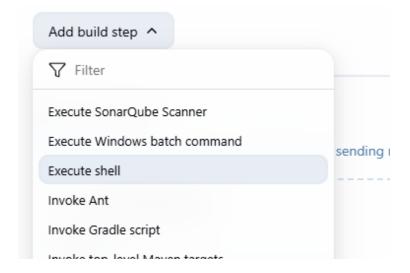
Email received



Save Your Configurations.

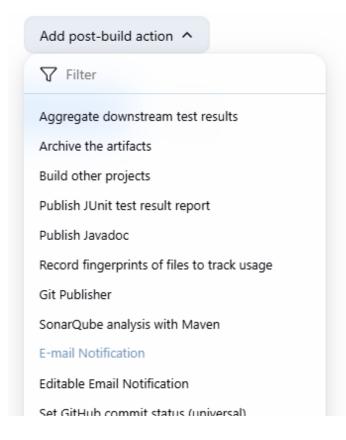
Create Free Style Project to Send Email If Build Fails





Select Execute Shell







Click on Build Now-- once the Build failed you will receive an email

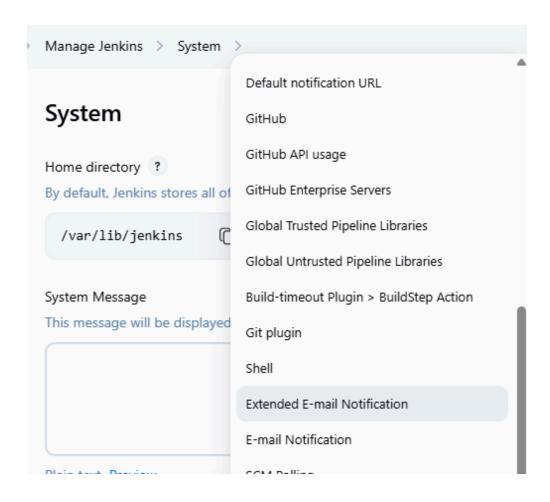
Create pipeline For Sending Email if Build Fails

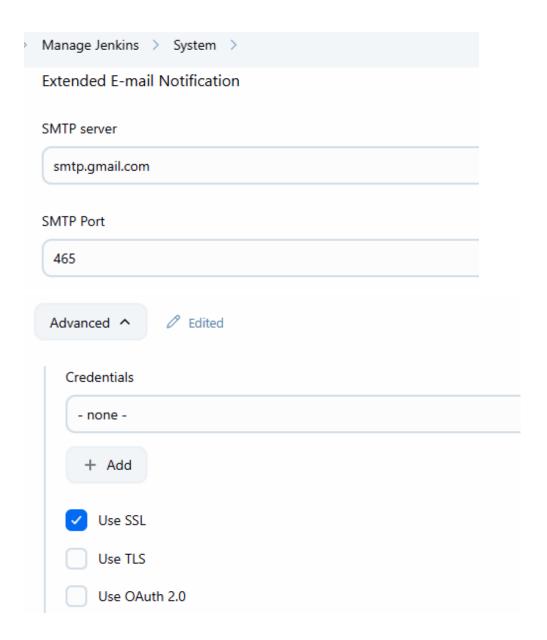
Create Jenkins pipeline name: EmailPipeline

```
pipeline {
agent any
environment{
EMAIL_TO="sonam_skills@pw.live"
stages {
stage('Test') {
steps {
echo 'Testing an Email'
}
}
}
post{
failure{
emailext(
to:"${EMAIL_TO}",
subject:"Build Failed:${env.JOB_NAME} #${env.BUILD_NUMBER}",
body:"Please Check and Build logs at ${env.BUILD_URL}"
)
}
}
}
```

Now Let's Configure Email Extentions.

Manage Jenkins --> System --> Extended Email Notification

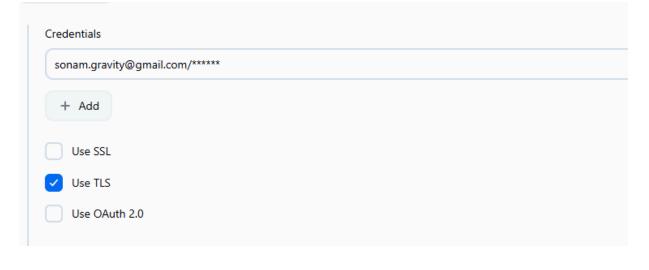


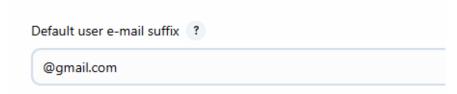


Here in this credentials click on Add



enter your email as username and app password in password. save it and then select credentials as well.





Click on Save.

Now Let's Make Some changes to fail pipeline. updated code

```
pipeline {
agent any
environment{
EMAIL_TO="sonam_skills@pw.live"
}
stages {
stage('Build'){
steps{
echo 'Building Java Project'
sh ''' mvn clean install '''
}
stage('Test') {
steps {
echo 'Testing an Email'
}
post{
failure{
emailext(
to:"${EMAIL_TO}",
subject:"Build Failed:${env.JOB_NAME} #${env.BUILD_NUMBER}",
body:"Please Check and Build logs at ${env.BUILD_URL}"
)
}
}
}
```

Save and then Build again

```
[Pipeline] { (Test)
Stage "Test" skipped due to earlier failure(s)
[Pipeline] getContext
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] emailext
Sending email to: sonam.gravity@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] // stage
```

Check your Email.

Build Failed:EmailPipeline #6 ∑ Inbox ×



address not configured yet <sonam.gravity@gmail.com> to me ▼

Please Check and Build logs at http://localhost:8080/job/EmailPipeline/6/

If you click on Build URL you will be redirected to your Jenkins screen where you can see the Logs.

Note: If you are using free style projects then Email Notification which you have configured its fine.

For Sending email from pipelines you need to configure Extended Email notification.Practi

Practice Task:

Create Jenkins Pipeline With SonarQube with Approvals twice

1 approval before start sonar analysis and another one before quality check
(Send Email Notification for Approval)