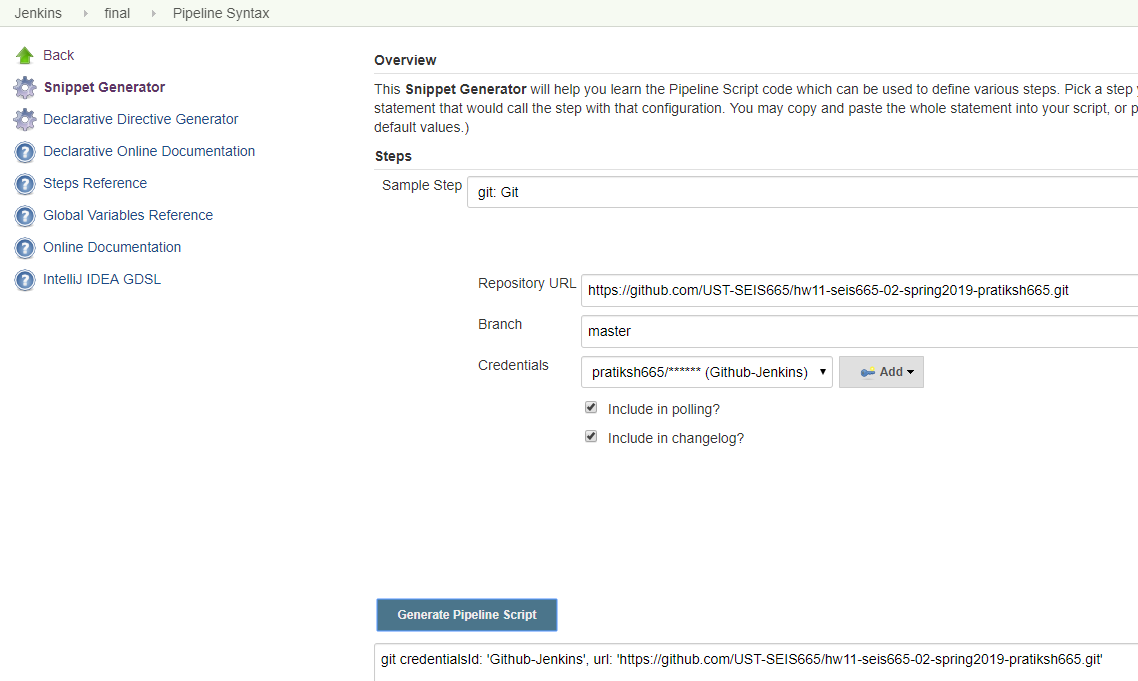
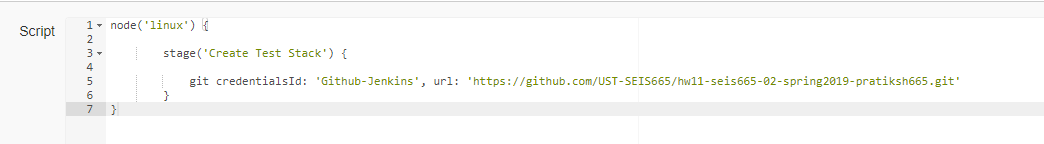
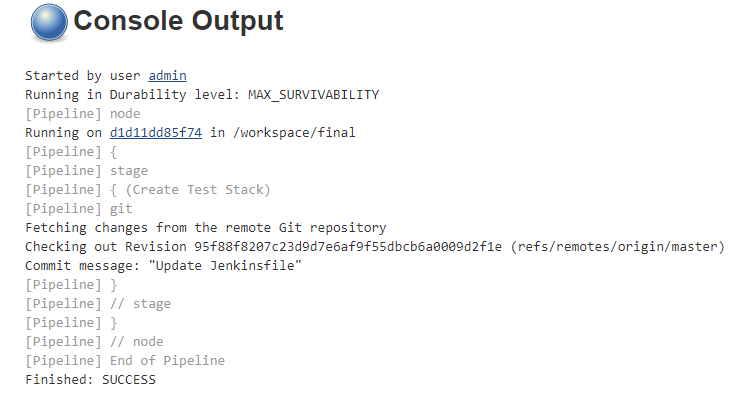


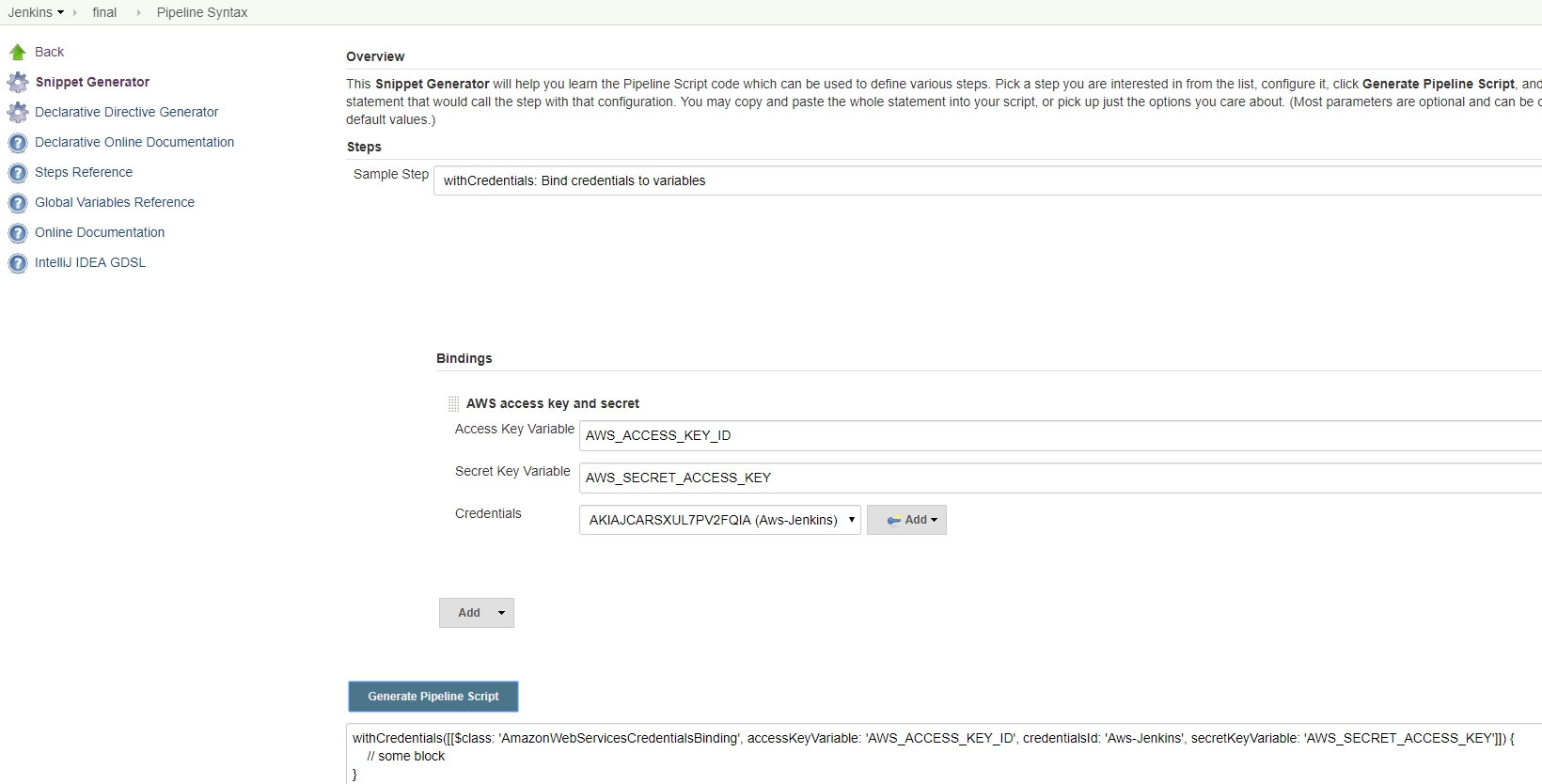
**Jenkins- Code for Cloning a Github Private Repo**

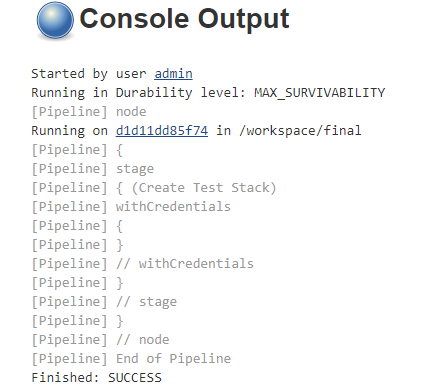






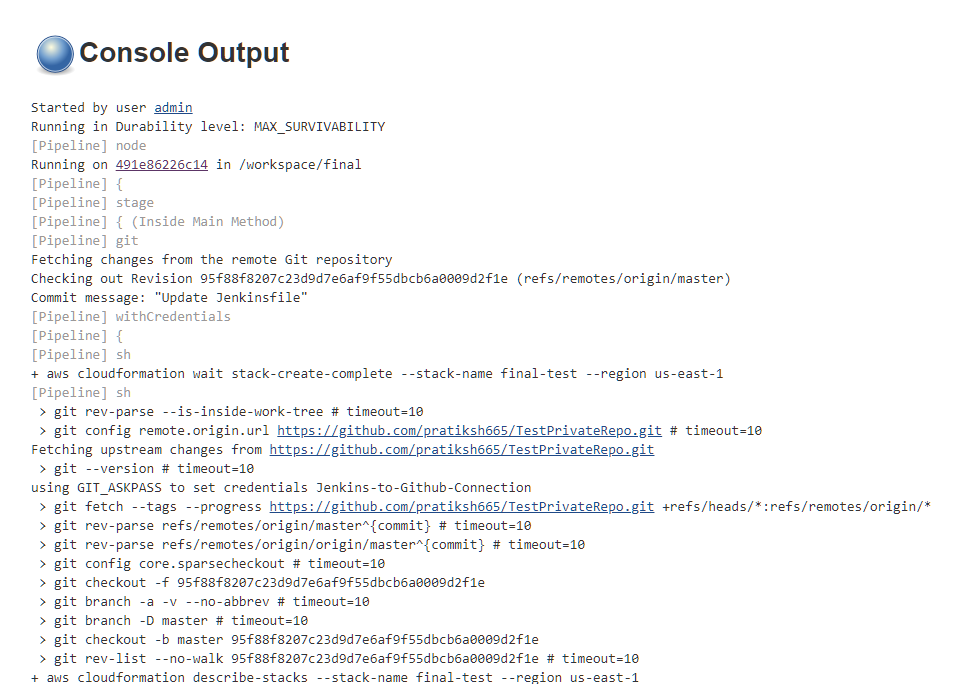
**Jenkins- Code for connecting to AWS**

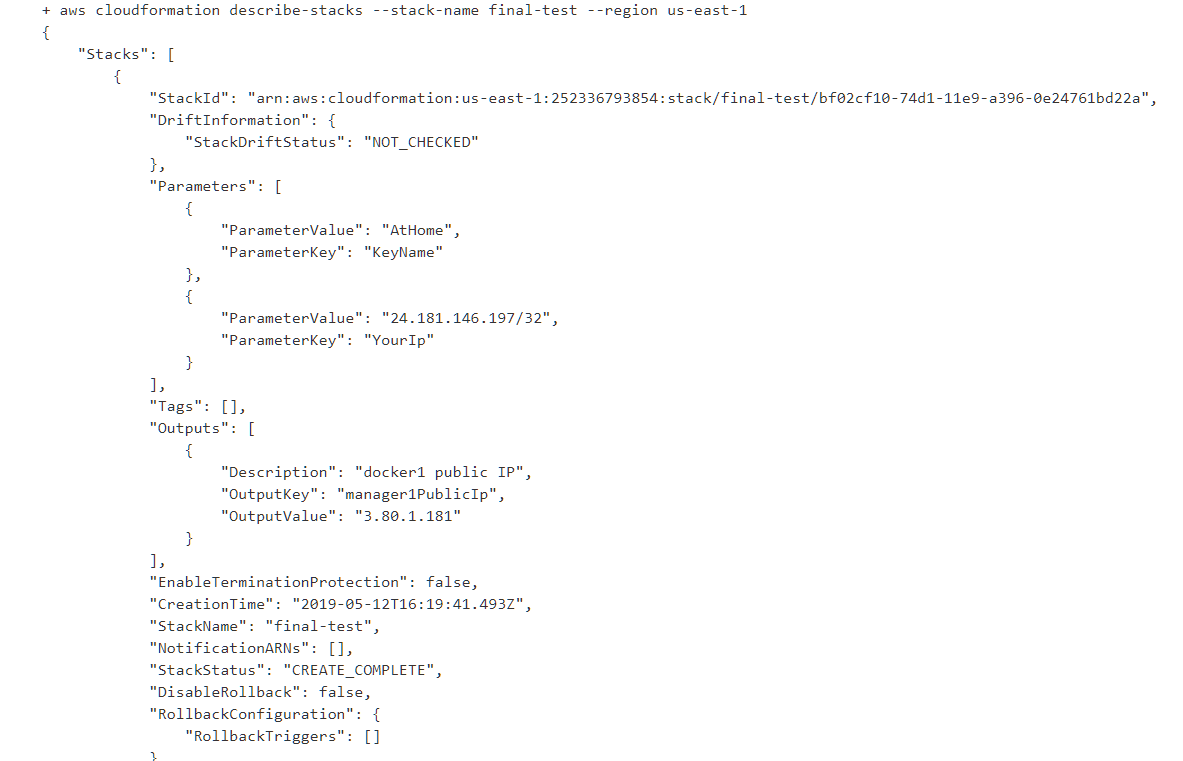


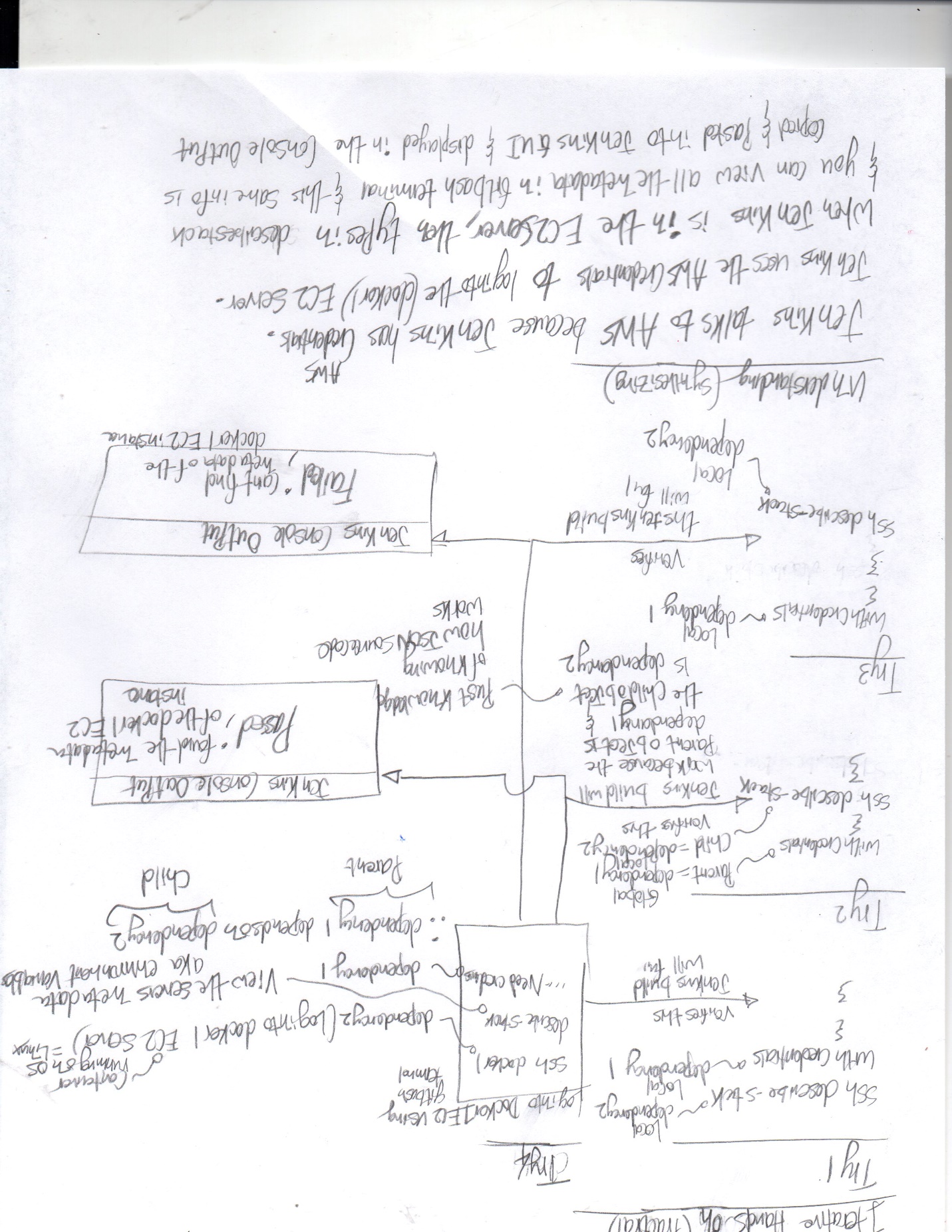
 











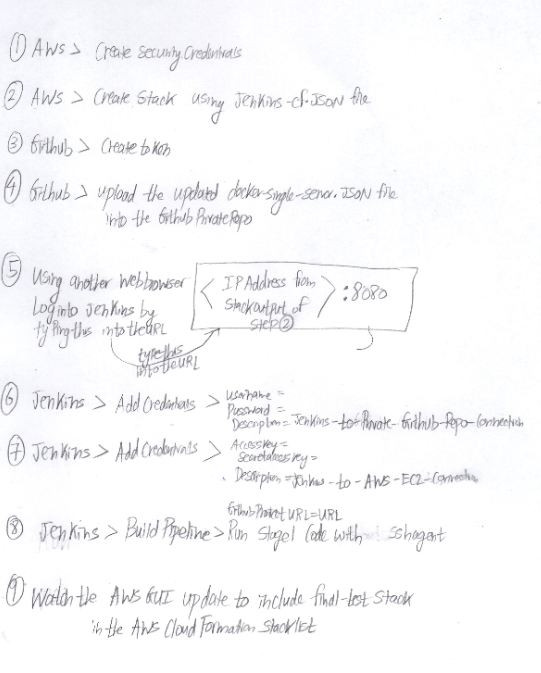
|  |
| --- |
| Hands on – How to display environment variables in the Jenkins Console Output |
| node('linux') {  stage('Inside Main Method') {  git credentialsId: 'Jenkins-to-Github-Connection', url: 'https://github.com/pratiksh665/TestPrivateRepo.git'      withCredentials([[$class: 'AmazonWebServicesCredentialsBinding', accessKeyVariable: 'AWS\_ACCESS\_KEY\_ID', credentialsId: 'Jenkins-to-AWS-Connection', secretKeyVariable: 'AWS\_SECRET\_ACCESS\_KEY']]) {  sh 'aws cloudformation wait stack-create-complete --stack-name final-test --region us-east-1'    sh 'aws cloudformation describe-stacks --stack-name final-test --region us-east-1'      echo "Starting storage of the AWS EC2 Servers IP Address as an environment variable "  echo "(docker1) AWS EC2 Servers IP Address = " + env.docker1IP  env.docker1IP = sh returnStdout: true, script: 'aws cloudformation describe-stacks --stack-name final-test --region us-east-1 --query Stacks[].Outputs[].[OutputValue] --output text'  echo "Completed storing AWS EC2 Servers IP Address as an environment variable "  echo "(docker1) AWS EC2 Servers IP Address = " + env.docker1IP    }  }  } |
|  |

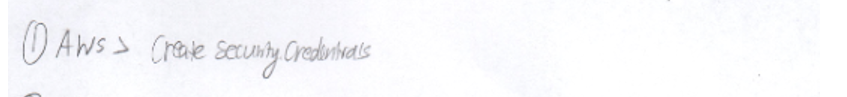
|  |
| --- |
| Jenkins Pipeline (Source Code) |
| node('linux') {  stage('Inside Main Method') {    withCredentials([[$class: 'AmazonWebServicesCredentialsBinding', accessKeyVariable: 'AWS\_ACCESS\_KEY\_ID', credentialsId: 'Jenkins-to-AWS-Connection', secretKeyVariable: 'AWS\_SECRET\_ACCESS\_KEY']]) {  sh 'aws cloudformation create-stack --stack-name final-test --region us-east-1 --template-body file://docker-single-server.json --parameters ParameterKey=KeyName,ParameterValue=pratiksh ParameterKey=YourIp,ParameterValue=$(curl ifconfig.me)/32'  }  }  } |
| Jenkins Pipelines Console Output (triggers googling questions & debugging) |
| Error parsing parameter '--template-body': Unable to load paramfile [file://docker-single-server.json](file:///\\docker-single-server.json\): [Errno 2] No such file or directory: 'docker-single-server.json'  ERROR: script returned exit code 255  Finished: FAILURE |

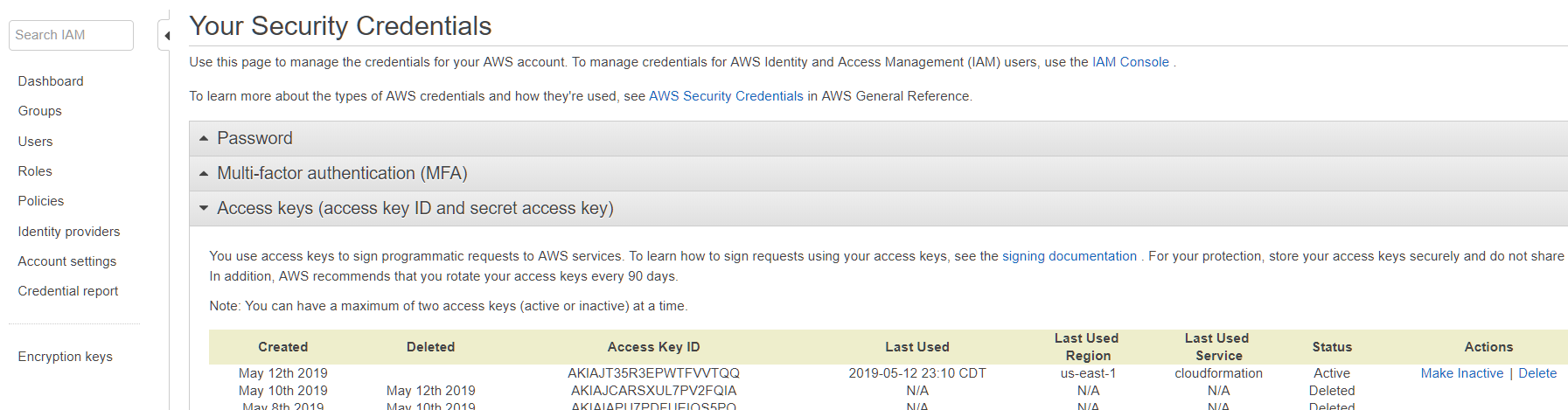
|  |
| --- |
|  |
| node('linux') {  stage('Inside Main Method') {    withCredentials([[$class: 'AmazonWebServicesCredentialsBinding', accessKeyVariable: 'AWS\_ACCESS\_KEY\_ID', credentialsId: 'Jenkins-to-AWS-Connection', secretKeyVariable: 'AWS\_SECRET\_ACCESS\_KEY']]) {  sshagent(['5a8e2ca5-345d-4cd1-9aa4-993b2b45e98c']) {  sh 'ssh -o StrictHostKeyChecking=no ubuntu@${docker1IP} uptime'  }    }  }  } |
|  |
|  |

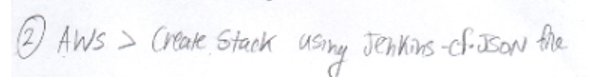
|  |
| --- |
| Working Code for Stage4 |
| node('linux') {  stage('Stage4') {    withCredentials([[$class: 'AmazonWebServicesCredentialsBinding', accessKeyVariable: 'AWS\_ACCESS\_KEY\_ID', credentialsId: 'Jenkins-to-AWS-Connection', secretKeyVariable: 'AWS\_SECRET\_ACCESS\_KEY']]) {  sh 'aws cloudformation wait stack-delete-complete --stack-name final-test --region us-east-1'  sh 'aws cloudformation delete-stack --stack-name final-test --region us-east-1'  }  }  } |
| Objective Evidence |
|  |

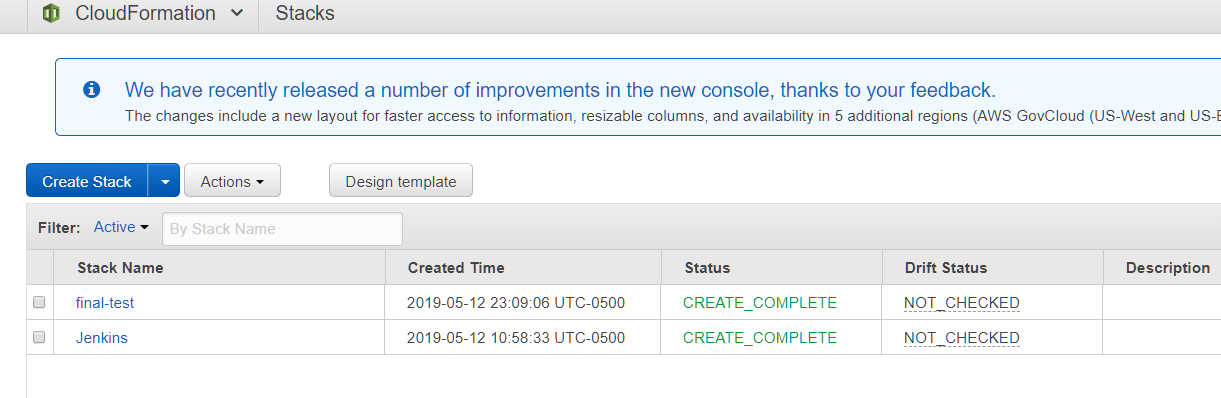
|  |
| --- |
|  |
| node('linux') {  stage('Stage4: Delete Test Stack') {  git credentialsId: 'Jenkins-to-Github-Connection', url: 'https://github.com/pratiksh665/TestPrivateRepo.git'  withCredentials([[$class: 'AmazonWebServicesCredentialsBinding', accessKeyVariable: 'AWS\_ACCESS\_KEY\_ID', credentialsId: 'Jenkins-to-AWS-Connection', secretKeyVariable: 'AWS\_SECRET\_ACCESS\_KEY']]) {  sh 'aws cloudformation delete-stack --stack-name final-test --region us-east-1'  sh 'aws cloudformation wait stack-delete-complete --stack-name final-test --region us-east-1'  }  }  } |
| **SuccessConsole Output**  Started by user [admin](http://3.84.157.93:8080/user/admin)  Running in Durability level: MAX\_SURVIVABILITY  [Pipeline] node  Running on [491e86226c14](http://3.84.157.93:8080/computer/491e86226c14/) in /workspace/final  [Pipeline] {  [Pipeline] stage  [Pipeline] { (Stage4: Delete Test Stack)  [Pipeline] git  Fetching changes from the remote Git repository  Checking out Revision 95f88f8207c23d9d7e6af9f55dbcb6a0009d2f1e (refs/remotes/origin/master)  Commit message: "Update Jenkinsfile"  [Pipeline] withCredentials  [Pipeline] {  [Pipeline] sh  + aws cloudformation delete-stack --stack-name final-test --region us-east-1  [Pipeline] sh  + aws cloudformation wait stack-delete-complete --stack-name final-test --region us-east-1  > git rev-parse --is-inside-work-tree # timeout=10  > git config remote.origin.url <https://github.com/pratiksh665/TestPrivateRepo.git> # timeout=10  Fetching upstream changes from <https://github.com/pratiksh665/TestPrivateRepo.git>  > git --version # timeout=10  using GIT\_ASKPASS to set credentials Jenkins-to-Github-Connection  > git fetch --tags --progress <https://github.com/pratiksh665/TestPrivateRepo.git> +refs/heads/\*:refs/remotes/origin/\*  > git rev-parse refs/remotes/origin/master^{commit} # timeout=10  > git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10  > git config core.sparsecheckout # timeout=10  > git checkout -f 95f88f8207c23d9d7e6af9f55dbcb6a0009d2f1e  > git branch -a -v --no-abbrev # timeout=10  > git branch -D master # timeout=10  > git checkout -b master 95f88f8207c23d9d7e6af9f55dbcb6a0009d2f1e  > git rev-list --no-walk 95f88f8207c23d9d7e6af9f55dbcb6a0009d2f1e # timeout=10  [Pipeline] }  [Pipeline] // withCredentials  [Pipeline] }  [Pipeline] // stage  [Pipeline] }  [Pipeline] // node  [Pipeline] End of Pipeline  Finished: SUCCESS |

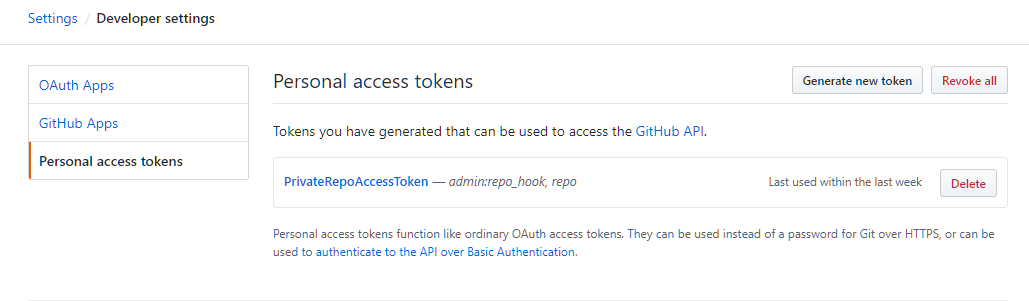


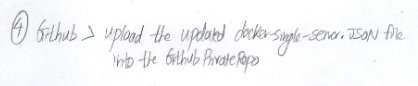


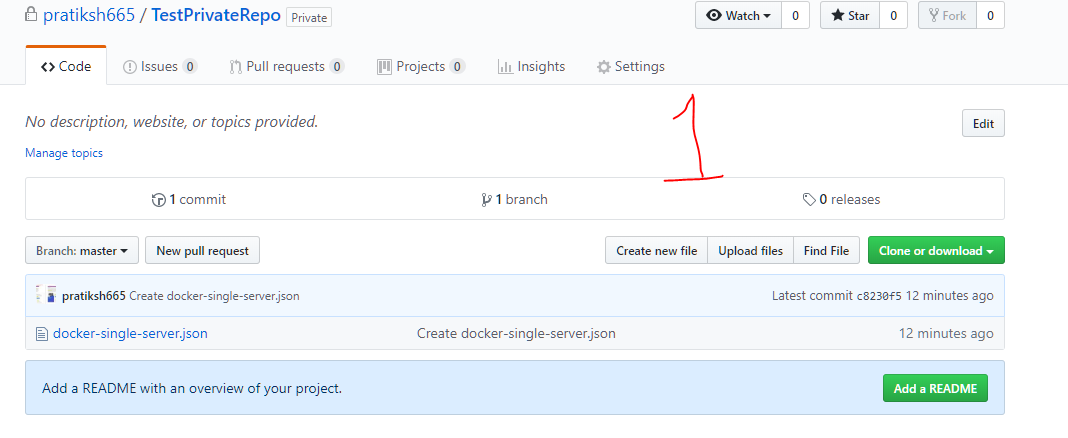


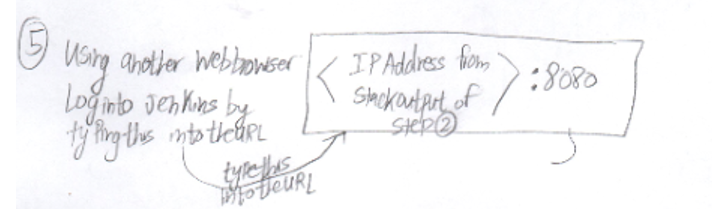


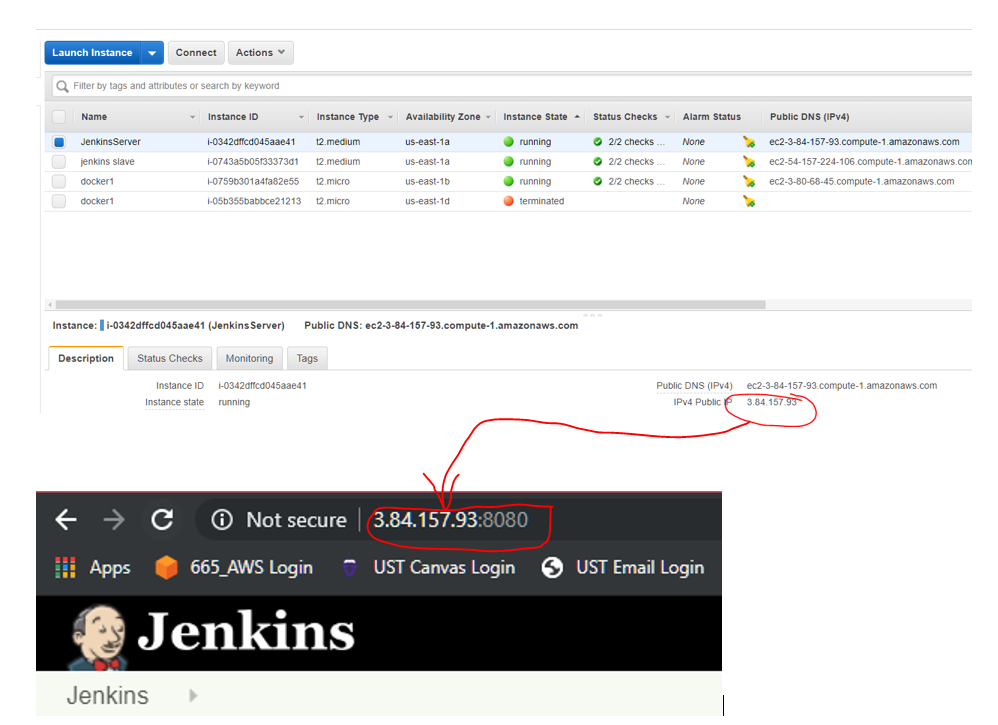


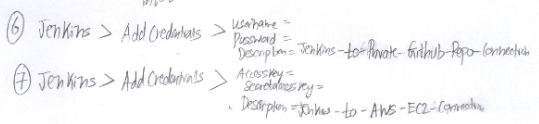
 



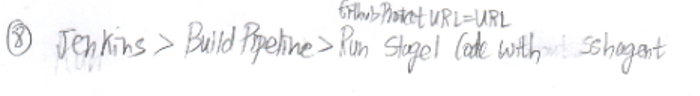














|  |
| --- |
| Source Code Understanding |
| node('linux') {  stage('Create Test Stack') {  git credentialsId: 'Jenkins-to-Github-Connection', url: 'https://github.com/pratiksh665/TestPrivateRepo.git'  withCredentials([[$class: 'AmazonWebServicesCredentialsBinding', accessKeyVariable: 'AWS\_ACCESS\_KEY\_ID', credentialsId: 'Jenkins-to-AWS-Connection', secretKeyVariable: 'AWS\_SECRET\_ACCESS\_KEY']]) {    sh 'aws cloudformation create-stack --stack-name final-test --region us-east-1 --template-body file://docker-single-server.json --parameters ParameterKey=KeyName,ParameterValue=AtHome ParameterKey=YourIp,ParameterValue=$(curl ifconfig.me)/32'    sh 'aws cloudformation wait stack-create-complete --stack-name final-test --region us-east-1'    sh 'aws cloudformation describe-stacks --stack-name final-test --region us-east-1'    env.docker1IP = sh returnStdout: true, script: 'aws cloudformation describe-stacks --stack-name final-test --region us-east-1 --query Stacks[].Outputs[].[OutputValue] --output text'    sshagent(['Providing-SSHServerKey-toJenkins-Builds']) {  sh 'ssh -o StrictHostKeyChecking=no ubuntu@${docker1IP} uptime'  }  }  }  } |
| FailedConsole Output |
| Started by user [admin](http://3.84.157.93:8080/user/admin)  Running in Durability level: MAX\_SURVIVABILITY  [Pipeline] node  Running on [491e86226c14](http://3.84.157.93:8080/computer/491e86226c14/) in /workspace/final  [Pipeline] {  [Pipeline] stage  [Pipeline] { (Test1: Create Test Stack)  [Pipeline] git  Fetching changes from the remote Git repository  Checking out Revision c8230f5f2b63e13f412d597c139fe9d508a8eeb6 (refs/remotes/origin/master)  Commit message: "Create docker-single-server.json"  [Pipeline] withCredentials  [Pipeline] {  [Pipeline] sh  + curl ifconfig.me  % Total % Received % Xferd Average Speed Time Time Time Current  Dload Upload Total Spent Left Speed  0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0  100 14 100 14 0 0 229 0 --:--:-- --:--:-- --:--:-- 225  100 14 100 14 0 0 229 0 --:--:-- --:--:-- --:--:-- 225  + aws cloudformation create-stack --stack-name final-test --region us-east-1 --template-body [file://docker-single-server.json](file:///\\docker-single-server.json\) --parameters ParameterKey=KeyName,ParameterValue=AtHome ParameterKey=YourIp,ParameterValue=54.157.224.106/32  > git rev-parse --is-inside-work-tree # timeout=10  > git config remote.origin.url <https://github.com/pratiksh665/TestPrivateRepo.git> # timeout=10  Fetching upstream changes from <https://github.com/pratiksh665/TestPrivateRepo.git>  > git --version # timeout=10  using GIT\_ASKPASS to set credentials Jenkins-to-Github-Connection  > git fetch --tags --progress <https://github.com/pratiksh665/TestPrivateRepo.git> +refs/heads/\*:refs/remotes/origin/\*  > git rev-parse refs/remotes/origin/master^{commit} # timeout=10  > git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10  > git config core.sparsecheckout # timeout=10  > git checkout -f c8230f5f2b63e13f412d597c139fe9d508a8eeb6  > git branch -a -v --no-abbrev # timeout=10  > git branch -D master # timeout=10  > git checkout -b master c8230f5f2b63e13f412d597c139fe9d508a8eeb6  > git rev-list --no-walk c8230f5f2b63e13f412d597c139fe9d508a8eeb6 # timeout=10  {  "StackId": "arn:aws:cloudformation:us-east-1:252336793854:stack/final-test/8be85450-753b-11e9-95d6-0a52d71b881a"  }  [Pipeline] sh  + aws cloudformation wait stack-create-complete --stack-name final-test --region us-east-1  [Pipeline] sh  + aws cloudformation describe-stacks --stack-name final-test --region us-east-1  {  "Stacks": [  {  "StackId": "arn:aws:cloudformation:us-east-1:252336793854:stack/final-test/8be85450-753b-11e9-95d6-0a52d71b881a",  "DriftInformation": {  "StackDriftStatus": "NOT\_CHECKED"  },  "Parameters": [  {  "ParameterValue": "AtHome",  "ParameterKey": "KeyName"  },  {  "ParameterValue": "54.157.224.106/32",  "ParameterKey": "YourIp"  }  ],  "Tags": [],  "Outputs": [  {  "Description": "docker1 public IP",  "OutputKey": "manager1PublicIp",  "OutputValue": "34.237.75.46"  }  ],  "EnableTerminationProtection": false,  "CreationTime": "2019-05-13T04:57:02.287Z",  "StackName": "final-test",  "NotificationARNs": [],  "StackStatus": "CREATE\_COMPLETE",  "DisableRollback": false,  "RollbackConfiguration": {}  }  ]  }  [Pipeline] sh  + aws cloudformation describe-stacks --stack-name final-test --region us-east-1 --query Stacks[].Outputs[].[OutputValue] --output text  [Pipeline] sshagent  [ssh-agent] Using credentials admin (Providing-SSHServerKey-toJenkins-Builds)  [ssh-agent] Looking for ssh-agent implementation...  [ssh-agent] Exec ssh-agent (binary ssh-agent on a remote machine)  SSH\_AUTH\_SOCK=/tmp/ssh-1HAj9kBmibXI/agent.5556  SSH\_AGENT\_PID=5558  Running ssh-add (command line suppressed)  [ssh-agent] Started.  [Pipeline] {  [Pipeline] sh  + ssh -o StrictHostKeyChecking=no ubuntu@34.237.75.46 uptime  Warning: Permanently added '34.237.75.46' (ECDSA) to the list of known hosts.  Permission denied (publickey,gssapi-keyex,gssapi-with-mic).  [Pipeline] }  [ssh-agent] Stopped.  [Pipeline] // sshagent  [Pipeline] }  [Pipeline] // withCredentials  [Pipeline] }  [Pipeline] // stage  [Pipeline] }  [Pipeline] // node  [Pipeline] End of Pipeline  ERROR: script returned exit code 255  Finished: FAILURE |



