**INTRODUCTION**

**Thanks For Providing This opportunity To Introduce My Self .**

1. I Am Jayant Bundile **.**
2. I have done my graduation after that I am currently working at **FIS SOLUTIONS** Company from last **3.2 Year** as a **DEVOPS ENGINEER .**
3. As a DEVOPS Engineer , I am using this tools on my organization .

**A)** I am using shell scripting language **B)** For CI / CD tools I am using **JENKINS .**

**C)** For containerization tool I am using **DOCKER & DOCKER COMPOSE .**

**D)** For configuration management tool I am using **ANSIBLE .**

**E)** For source code management I am using **GIT & GITHUB**

**F)** For build tools I am using **MAVEN** .

1. All my infrastructure is available on cloud and I am using AWS cloud .
2. For that AWS cloud I am daily using this service ( **EC2 , AMI , AS , VPC , EFS , CW , ELB , SNS , IAM , CF , S3 )**

**Explain Project :**

**1)** I am currently working on a project , the name of project is **CRM & BILLING ,** & the domain is **TELECOM .**

**2)** It is the 1st business support system designed for the opportunities & challenges of the network society providers to launch new product .

**3)** So my roles on that project is to maintain the environment .

**4)** We have DEV , QA & UAT environment and all the infrastructure are maintain the whole team .

**5)** I do the deployment on regular basis through Jenkins & this is all automated .

**6)** In case any error is found so we coordinate with the developer team to get the error is resolved .

**7)** Once the environment is up & ready so we provide the url to the QA team , then QA team perform there testing .

**8)** In case they have some issues so we support that team & resolve the issue .

**What types of error you facing :** ( **Hot deployment** , **DB related error** , **Code compilation error** , **war application not deploy on server properly** , **for writing the playbook so we facing the error on that also** , **for instance auto disconnect issue** , **ec2 instance url is not working issue** , **security group port issue** ) .

**Roles & Responsibility :**

1. 1st checking the mail , then checking the notification .
2. Then I am checking the jira ticketing tool for pending task .
3. Daily attend the status calls & also attend the scrum meeting .
4. Client take the meeting on every week and they suggest they need to changes some tabs on there application .
5. For that changes we set the branching strategy and provide the separate branches for the developer .
6. After that they perform the testing and then merge the branch .
7. After merge the branch we check branch is merge or not properly , if any merge error is showing then

we resolve this merge conflict with the discussion of developer and push the branch into master .

1. Verifying all the services are up & in running condition .
2. Taking backups of instance & restore if require .
3. Provided the access for developer & QA team .
4. Performing monitoring on daily basis .
5. Perform the process for **FULL deployment** & **HOT deployment** .
6. Run the pipeline, create the user , create environmental variable & configure email , Install plugins , manage plugins , manage granular access , to create job , deploy the code on multiple environment , build the code , update the Jenkins version via **JENKINS .**
7. To update the application version of VM by using **ANSIBLE** .
8. To create the branches , to check the commit , to generate the pull request , merge the code , create the repository , maintain the branches , provide the branch access on team member , clone the project by using **GIT**
9. Deploy the docker container , deploy the application on docker container with the help of Jenkins .
10. Setting up the SNS topic create subscriber , add subscriber .
11. Create the bucket , upload the object , manage bucket policy .
12. Compile the code , upload the package into RR , create the package , execute the test by using **MAVEN** .

**R & R Question & Answer :**

**What is Branch :** Independent Line Of Development ( Default Branch is Master )

**How To Create Branch :** Go To Connected Instance – Create Folder – Create Files – Add Both Files into Staging Area

& Last Commit The File & Enter Command ( **git branch** )

**How To Create The Token :** If ur repository is public , then 1st make it private , create password – click your profile ,

Setting , developer setting , personal access token , generate a new token , scope option

Select all , generate token .

**How To Check Commit :** by using **git log** command

**How To Generate Pull Request :** Go to RR – Pull Request , New , Click Compare master , select both files , create ,

Click merge the branch – create pull request .

**How To Merge The File :** Go to drop down on same file , merge pull request – conform merge .

**How To Create Repository :** Login GIT Account – go to profile – your repository – create new – enter name – create .

**How To compile The Source Code :** by using **mvn compile** command

**How To Create Package :** By using **mvn package** command

**How To Clean The Local Repository :** by using **mvn clean** command

**Jenkins :** it is power full application that allows continuous integration & continuous Delivery Of Projects .

**How To Install Jenkins :** by using **sudo yum install Jenkins** command

**How To Install Plugins :** go to Jenkins dash board , manage Jenkins , go to available , search , search blue ocean ,

Select external side tool integration , select install without restart

**How To Create The Jobs :** Go to Jenkins dashboard , click new item , enter job name , select free style / pipeline , ok

**How To Update Jenkins Version :** by using **sudo yum upgrade** command

**How To Create Environmental Variable :** go to Jenkins , manage Jenkins , configure system , global properties ,

Select Environment variable , enter name & value , apply & save

**How To Configure Email in Jenkins** : go to configure system - add your host name in SMTP server – once u add host

name & port number u have select the post build action of the job , inside this

job , under configure post build action , select e mail notification & enter user

mail ID

**How To Add Credential In Jenkins :** go to Jenkins dashboard , manage Jenkins , manage credential , click name ,

update , go to global credential & update .