I am working as a devops engineer

I take care of CI/CD of the project I am working in. I have been the part of that has setup CI/CD from scratch. Jenkins is our CI/CD tool which has all the jobs as pipelines.

As soon as the development team pushes the code to the git repo, our Jenkins pipeline gets triggered. Overall, our pipelines have three stages. Build, deploys and test

Once the code is pushed to git repo build stage of the pipeline will get triggered which will pull the source code from git, compiles the source code and generates binary. Further using this docker images are created and pushed to an artifactory. In the next stage which is deploy, the docker images from the artifactory are deployed into k8s clusters.

Once the deployed stage is completed the test stage of the pipeline will get triggered. In the test stage, test cases will be run on the deployments which are given by the testing team. In case of any test failures, the devops team in collaboration with the testing team will take care of the issues.

I work on shell scripts which I have used to automate the manual and repetitive tasks. I am responsible for docker and k8s operations in my team, I have written docker file and reduced docker image size using multis stage build. I am responsible for deploying and managing application pods using k8s.

I also take care of cloud infrastructure AWS is our cloud provider in my previous project. I take care of AWS operations related to services like EC2, S3, VPC, Load Balancing, Auto Scaling, CloudWatch, CloudTrail, IAM etc. (10 service you are comfortable with). I also worked on Terraform and Ansible. I have used terraform, to sanction infrastructure in the form of IAC on AWS cloud.

I have also used configuration management tool Ansible to manage the configuration of AWS cloud services.

I take care of releases in the project. We have releases frequently, at the time of release I create release branches, merge different branches and resolve merge conflicts with the help of development team.

We use git as our source code repository.

These are the overall tools I have worked in and my roles and responsibilities in brief.

**Day to day activities:**

On a daily basis I work on tickets, we get tickets related to build issues, deployment issues , git issues and Jenkins issues. We work on those tickets based on priority. Some tickets are crucial, we need to close those tickets in a few hours. (**JIRA** is ticketing tool)

I also play the role of admin in my team for git and Jenkins, I get more tickets related to these tools. I also get tickets related to the branching strategy, creating branches, merging branches and deleing branches.

Apart from tickets we have automation work. I will be taking cate of automation, as automations is never ending process.

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