I am currently working as a DevOps engineer and I have close to 2+ years of experience. I started my career initially as ‘Build and release’ engineer in which I worked for 8 months. Later I was assigned the other DevOps tools.

The current project that I am working for is for a client called ‘client name’ and this is an application related to \_\_\_ domain (Banking domain). I have been working for this project last 1 year.

This is an application created using Java and one of my responsibilities here is to setup the CI-CD pipelines for which we are using Jenkins. Developers simply check-in their code into the git repository and I designed the Jenkins files

which download, build, and deploy the code into the testing environment. Our testing environment is running on tomcat9 and I have configured Jenkins to automatically deploy into this tomcat servers. We have a team of testers who are creating automation test-scripts using Selenium and Jmeter. I have configured Jenkins to execute these automation test scripts and if this testing passes then I configured Jenkins to deploy into the staging environment this is the regular flow of CI that we implement.

We have lot of times where we have to run multiple Jenkins jobs parallelly and just to ensure the performance of my Jenkins server does not go down, I have setup additional slave machine to distribute the workload of the Jenkins master.

Developers upload different functionality of this application on different branches and it is my responsibility to place separate copy of the Jenkins file on each of these branches so that whenever any developer checks-in code into any of branches the corresponding Jenkins file gets triggered and multi branch pipeline gets executed.

We are using Docker containers on a very huge scale. Our entire dev environment, testing environment, production environment has been dockerised. I designed necessary docker compose files, for setting up these environments. As I told you earlier this is a Java based application. We have our database running on mysql and application servers are running on tomcat. This entire dev-environment has been dockerised.

Similarly, we had a recent requirement where the automation testing team wanted to test this application on multiple browser and OS combinations. But the testing team expected approximately 800+ browser and OS combinations on which they wanted to run the cross browser, cross platform testing programs but creating an infrastructure of 800 browser and OS combinations was a very big challenge and initially our organisation depended on cloud service provider called ‘Sauce labs’. But as this was very expensive I did little bit of POC and checked if we can use Docker and almost 70% of this environment we were able to create as Docker containers. Though creating all these customised Docker images, was a challenging task still it has helped us in saving lot of time and money for automation testing.

I am also responsible for creating customised Docker images using Docker file and these images I preserve on a Docker private registry that I have setup. I had the chance of working on both Docker swarm and Kubernetes for container orchestration and I have handled on all production related challenges on containers like load balancing, scaling, performing rolling updates with zero downtime etc.

I have first hand knowledge of how to create docker stack files in docker swarm. Similarly I also have knowledge on Kubernetes definition files and integrating these kubernetes deployments using Jenkins.

We have our applications running on approximately 2000 servers and this data centre is located in N.verginia and one of my core responsibility here is to remotely configure software applications on these servers for which we are using Ansible. I designed ansible playbooks and roles. For remote management I have created Ansible playbooks for applications like Tomact, Appache, dbs like mysql etc.

These ansible playbooks we scheduled for a specific date and time with the help of Jenkins. We are also using python for automating most of the day to day activities that we perform on Jenkins and docker.