

DEVOPS/SRE JOB GUIDANCE SESSION 1

NOTE -

FRESHERS/INTERNS/EXPERIENCED/DOMAIN CHANGE - Please use the below points just to understand the importance of each tool and roles of DevOps/SRE in an organisation. This is only to let you know about the amount of hard work you need to do to become a DevOps/SRE engineer in the next coming months.

INTRODUCE YOURSELF 🙌

I am a fresher/Intern/ 7+ years of IT experience as a DevOps Engineer in the field of DevOps Automation/AWS Cloud Migration/Linux System administrator/Application security and monitoring and currently working with Walmart. Completed certifications such as Red Hat Linux system administrator with RHEL 8 and Red Hat Ansible automation I have received multiple awards in the field of automation, learning and development along with awards received for showing good leadership and innovative ideas in various Tech and Non-Tech events. Key member in DevSecOps Team and supporting more than 100+ application team across multiple domains Involved in the designing phase of AWS architecture with the high level architects.

WALMART ROLES AND RESPONSIBILITIES IN BRIEF

Developed the chatbot in node js from scratch with critical functionalities and have received an award Kubernetes Onboarding and end to end support of applications along with SRE activities was performed.

Created a MySQL database and integrated Grafana to show the statistical data onto the dashboard which reduced the manual efforts of both testing and dev team to search for kit release versions and Jira ids.

Experience in AWS to create, manage and configure the services like ALB, ASG, EC2, IAM, S3, Redis, EBS, Route53, RDS, Security Groups and VPC along with automating the AWS cloud deployments.

Designed scripts to implement various Shell/Python automations and provided deployment support of Onprem applications.

Performance and Chaos engineering related activities have been performed on various supply chain applications.

Designed Ansible play-books to perform DISASTER RECOVERY/DEPLOYMENTS/INFRA AUTOMATIONS.

Python code designed to hit the team-rosters and parse the data as per the automation need and create manifest files to deploy it as a PODs.

Good knowledge in checking the code quality and application security using the Sonarqube, Black duck and Fortify for both frontend and backend applications.

Gitlab, Sonarqube, Jira, Confluence and Jenkins REST API AUTOMATION was done to implement various customised automations to reduce manual efforts.

VERIZON ROLES AND RESPONSIBILITIES

Key member in DevOps Team and supporting more than 100+ application team across multiple domains. Primary responsibility to onboard and setting up CICD pipeline for multiple frontend and backend applications in both Wireline & Wireless domain.

Connecting with the application team to understand the application and process used by them for build and deployment which includes overall review on application automation feasibility.

Setting up a Build agent using AWS cloud formation template and using EBS service to adjust volumes in instance as per requirements.

Preparing the Environment and provisioning the environments as per the requested application team.

Initiating Jenkins builds and Deployments for the application as per the release scheduled.

Created the Jenkins jobs for launching the AWS resources via Ansible and have written the CFT templates to create the resources.

Maintained the security groups and IAM role access so that our AWS servers can talk to servers present in other Networks/Domains. Worked on problems arising from Build and environment provision issues.

Expertise in writing Ansible playbooks and creating various playbooks to do the auto install of many software's in the EC2 servers like Maven, Gitlab, Java, node , etc.

Involved in the security review for the servers and application for DAST scan and gave remedies to be set in HEADERS of the apache web server.

Involved in AMI rehydration for all the AWS servers for this project.

SRE/SOE was introduced for making the applications more reliable SLA, SLI, SLOs were defined with the help of the dev team and then configured in the SRE portal.

The shell script was written to delete the old logs of more than a week to save the file system size.

Sentry monitoring was introduced and I integrated a couple of dev modules so that logs can be sent to the sentry dashboard and then given KT to the dev team.

New relic APM and infra agents were installed and enabled in the AWS servers through the java option command Continuous monitoring of the servers was done through shell scripts and new relics.

Created MySQL database and integrated Grafana to show the statistical data onto the dashboard which reduced the manual efforts of both testing and dev team to search for kit release versions and Jira ids

INFOSYS ROLES AND RESPONSIBILITIES

Worked as DevOps engineer in developing the infrastructure for Toyota Motor Sales which involved the automation of an entire project which is based on data sharing between dealer and Toyota management system.

The Automation started with creating the environment in AWS with Cloud formation scripts and having the ec2 instance where we hosted the Docker and inside the Docker container we had the Jenkins, Sonarqube, Archiva getting hosted.

The pipeline was configured for 17 interfaces of TMS and then integrated with the above tools and after the successful build of each interface the final stage was deploying it in AWS servers.

The administrative part of Jenkins was taken care and based on roles of users in project the Username and passwords were created.

The admin part of AWS was also taken care wherein the security groups of services and IAM roles were managed depending on the permission to be given to users.

Involved in creating and managing the infra in AWS (VPC, EC2, ECS, DynamoDB, IAM Roles) and hosted the tools like Docker, Jenkins etc. Involved in writing Docker files, creating containers, Images and pushing it to Docker hub.

Involved in creating and managing the CI/CD pipeline for 17 interfaces. Involved in daily stand-up meetings as a part of Agile Methodology.