**This is my Self Introduction**.

Hi Good Morning/Evening, thank you for giving me this opportunity. My Name is K **Venkata Narasimha Rao**. I have done B-Tech in Electronics & Communication Engineering. I have **12 years of IT experience** including **5 years of experience** **on DevOps & AWS Cloud.**

I **started my career as a GIS Engineer**, worked for 4 years, where I specialized in geospatial technologies. Subsequently, I transitioned to a **support engineer** role for 1 year and provided technical assistance for various troubleshooting issues.

Driven by a passion about the technology, I transitioned into a **Linux Administrator**, where I spent nearly 2 years by ensuring the **stability and security of Linux servers**. During that time, I was discovered my interest in **cloud & DevOps practices**, & I was moved as cloud & DevOps engineer.

From the last 5 years, I've been working on **Cloud AWS & DevOps Tools**, leveraging an array of tools including **Git, Jenkins, Ansible, Terraform, Docker, Kubernetes**, and various **AWS Services**.

Primarily focusing on implementing **Jenkins CI/CD pipelines**, automating infrastructure provisioning using **Terraform**, configuration management using **Ansible**, Containerization using **Docker**, **Kubernetes** for **Container Orchestration**, and we use Various AWS Services like **EC2 VMs, IAM, S3 Storage, VPC Networking, Cloud Formation, CloudWatch for Monitoring, Autoscaling, Load Balancer** services to Optimizing cloud environments for enhanced scalability and cost-effectiveness for the Organization.

I address the Server issues, Networking issues, Resource Management & Access Permissions, new Infrastructure, server building & new software deployment requests. As per request, I address the issues & try to resolve them and close JIRA tickets within the time frame based on SLA.

I attend daily stand-up meeting with our team and with clients based on project requirements & progress.

This journey has equipped me with a deep understanding of both traditional IT operations and modern cloud-native architectures, allowing me to bring a unique perspective to my work. I'm excited about the opportunity to continue growing and contributing to the dynamic field of technology.

**Real-time Day-Day Activities of DevOps:**

1. Once Reached office, Check Emails & ServiceNow/Jira Tickets to know what needs to be done for day.
2. Check the Scheduled Automation Tasks Status and check Notifications from Monitoring System.
3. Check Critical Alerts to Ensure that there are no Critical Alerts un-attended.
4. Daily Standup meeting with team to discuss on current & upcoming projects once reached to office.
5. Help and Support to the Developers -- Make sure that they can write the code elegantly.
6. Help & Support to Prod Servers -- Make sure that the Environments, Dependencies are correct or not.
7. Automation for Replicative tasks using Shell and Python Scripts.
8. Jenkins Jobs -- Create Jenkins Jobs and Create CI/CD Pipeline for Application Testing & Deployment
9. Infrastructure Management -- check overall Infrastructure to figure out existing Infrastructure will sufficient or not. if not, talk to concerned authority and enable infrastructure as per requirement.
10. Infrastructure provisioning can do using Terraform, Configuration Management using Ansible, Branching Strategies using Git & GitHub, Application Deployment can be done using Docker, Kubernetes & Cloud AWS Services.
11. Approvals --- Need to Get the Approvals to Release the Application. and get the feedback from customers once released.

**Pipeline as a code**: Let’s create a Declarative pipeline ==> Create a new job ==> select project as pipeline

pipeline {

tools {

maven ‘maven’

}

agent any

stages {

stage (‘Clone Repo’){

Steps{

git 'https://github.com/Sonal0409/DevOpsCodeDemo.git'

}

}

stage (‘Code Compile’){

Steps{

sh ‘mvn compile’

}

}

stage (‘CodeReview’){

Steps{

sh ‘mvn pmd:pmd’

}

}

stage (‘Unit Testing’){

Steps{

sh ‘mvn test’

}

Post{

Success{

junit 'target/surefire-reports/\*.xml'

}

}

}

stage (‘Code Coverage’){

Steps{

sh ‘mvn cobertura:cobertura -Dcobertura.report.format=xml’

}

}

stage (‘Package’){

Steps{

sh ‘mvn package’

}

} }

**I am Responsible for:**

1 - Build and Release Process

2 - Managing User access on Resources (Grant/Revoke)

3 - Managing Various Branches of Git

4 - Create CICD Pipelines (Automation (CI/CD) of Repetitive tasks using GitHub/Jenkins/Ansible/Docker)

5 - Ensure to Sufficient Backup and Creating Backup Policy for Servers & Applications.

6 - Administration of IT Infra: Provisioning Infra using Terraform & Configuration Management - Ansible

7 - Choosing Right Deployment Models from Ansible, Docker, Kubernetes & AWS Cloud Services.

8 - Conducting the Critical Testing Protocol and Monitoring.

9 - Server Support & Applications Support.

**How do you start your day at work?**

* I start my day with Checking emails, teams’ messages, JIRA & ServiceNow tickets which are newly received, and which are assigned to me and to Ensure that there is not critical alert unattended.
* As a DevOps engineer, i start my day by Monitoring the Pipelines, Infrastructure, if there was any deployment overnight, stability of the infrastructure and services they providing to the organization.
* I attend the daily standup meetings with team and clients which defines the priority for the day, based on how the infrastructure is stable and what actions i must perform.
* **CICD Pipeline Updating/Creation**: Edit & modify the existing pipeline & we create for new project.
* **Configuration Management** using Ansible for any updates or changes as per user request.
* **Infrastructure Provision**: we use Terraform as an IaC for provisioning the infrastructure.

**Why do we use branching**? Branching is a technique used by development teams so that different teams can work parallelly in a more efficient way without impacting each other's work.

**Why do we need branching?** Branching allows teams of developers to easily collaborate inside of one central code base. When a developer creates a branch, the VCS creates a copy of the code base at that point in time. Changes to the branch don't affect other developers on the team.

**What are types of Git branches?** The 2 primary branches in Git flow are **Master/Main** & **Develop**. There are 3 types of supporting branches, they are: **Feature, Release, & Hotfix.**

**Which branching strategy is best?** Git-Flow is a comprehensive branching strategy that aims to cover various scenarios. It defines specific branch responsibilities, such as main/master for production, develop for active development, feature for new features, release as a gatekeeper to production, and hotfix for addressing urgent issues.

**What are types of git branches?**

**Master/Main Branch**: Master branch is the default branch in the Git repository for Production.

**Feature Branch (Topic branch**): A feature branch is a copy of the master/main codebase where an individual or team of software developers can work on a new feature until it is complete.

**Release Branch**: Branches for preparing and testing releases. Creating this branch starts the next release cycle, so no new features can be added after this point—only bug fixes, documentation generation, and other release-oriented tasks should go in this branch. Once it's ready to ship, the release branch gets merged into main and tagged with a version number.

**Hotfix Branch:** Branches for addressing critical issues & bug fixing issues in production environment.

**Develop Branch (Integration branch):** This is used by developers to develop any new feature.

**Why do you want to work at our company?**

Tell them what you like about the company and relate it to your long-term career goals.

**For Example:** Sir, it is a great privilege for anyone to work in a reputed company like yours. when i read about your company I found that my skills are matching your requirements. where i can showcase my technical skills to contribute to the company growth.

**What are your strengths?**

Adaptability, Hardworking, Honest, Flexible, Optimistic, Fast decision making, Persistence, Self-motivated.

**For Example**: I am a honest, self-motivated and hard working person with positive attitude towards my career and my life.

**What is your weakness?** Straightforward, Impatient, Sensitive, more talkative, Trust people very quickly, I can't say no when someone ask for help, take decisions very quickly, Gets nervous when talk to strangers, To speak lie is difficult for me, I am a bit lazy about which i am not interested.

**For Example**: I can't say no when someone ask for help, and I am a bit lazy about which i am not interested.

**Why should I hire you?** Share your knowledge, work experience, skill related to job, career goal.

**For Example**: Sir, with reference to my work experience, i satisfy all the requirement for this job. i am sincere with my work & would never let you down in anyway. i promise you will never regret for the decision to appoint me in your organization.

**Tell me what you know about this company?**

Study about the company in details, do the background work about new projects, know names of their owners and partners, Research about the company current issues, update your knowledge about their competitors. **For Example:** It is one of the best fastest growing company in India. The work environment of the company is very good. people feel proud to be part of the company as company provides full support to their employees in professional front It has many branches across the world. so i have good opportunity to show my talent.

**Why are you looking for a job change?** Say Thanks to previous organization, explain what you learn from the past job experience, share your reason for job change, relate to career goals.

**For Example:** I am thankful to my previous organization because i have learnt a lot of things from there. According to me changes are necessary for everyone to enhance your skills, knowledge and for personal growth and financial growth. your organization is the good platform where i can learn more.

**What are your salary requirements?**

Experience candidate can share their expected salary, always say as per the company norms for the job.

**Example:** I have 12years of experience in IT. My current CTC is 8LPA salary has never been a big issue for me. still i am expecting salary as company's norms as per my designation and my qualification and experience which can help me to maintain the standard of level of my personal and economical needs.

**what are your career goals?** Short term & Long-term goal.

**Example**: My short-term goal is to get a job in reputed company where i can utilize my skills and improve my career path. My Long-term goal is to be in respectable position in that organization.

**Finally, do you have any questions to ask me?**

Express thanks, Salary structure, Job Timings, Job Location, Overtime allowances, Training Period, Transport Facility.

**Example**: Thank you for giving this opportunity. Sir i would like to know about the job timings and transport facility and what will be the job location and salary scale for this job in your organization.