



**K. Venkat**

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## PROFESSIONAL SUMMARY:

- A competent professional with **6 + years** of IT industry experience into **AWS/DevOps** with expertise in areas of Continuous Integration, Continuous Delivery, Continuous Deployment (CI/CD), Software Configuration Management, Version Control, Build and Release management, Automation, Troubleshooting and System Administration.
- Worked on **AWS Services EC2, IAM, Subnets, VPC, NAT, Cloud Formation, AMI, S3, SNS, SES, CloudWatch, SQS, Route53, CloudTrail**, and **RDS** and obtaining High Availability and Fault Tolerance for **AWS EC2** instances utilizing the services like **Elastic IP, EBS** and **ALB**.
- Managed Kubernetes charts using Helm and Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files
- AWS certified professional with excellent knowledge on all the modern Cloud technologies.
- Integrated & implemented various server solutions and components, including web, app, database, mail, and backup servers, as well as core infrastructure services (DNS, FTP, NFS, SSH).
- Expertise in working with Cloud trail and cloud watch to monitor the logs.
- Expertise in working with the AWS encryption techniques including **AES-256** and **AWS CMK**.
- Worked with **AWS EMR, Redshift, S3** and **lambda** for cloud-based data solutions.
- Worked with **Airflow** for creating the DAG's and scheduling the EMR jobs.
- Expertise in working with the **AWS IAM** entities which includes creating users, roles, policies, groups using the cloud formation templates.
- Experience in creating the **IAM roles** for giving the least privilege access.
- Experience in working with **AWS config** service to track the configuration for AWS resources and work with creating customized rules using the lambda function in AWS config to check for compliance state for Ec2 and other AWS services.
- Highly motivated and committed DevOps Engineer experienced in Automating, configuring, and deploying instances on **AWS cloud** environment.
- Involved in supporting cloud instances running **Linux** and **Windows** on **AWS**, experience with Elastic IP, Security Groups and **Virtual Private Cloud** in AWS.
- Setting up data in **AWS** using S3buckets and configuring instance backups to S3 bucket.
- Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like **GIT** on Linux and windows platforms.
- Extensive development experience in object-oriented analysis, design, and programming (**OOA/OOD/OOP**) throughout complete **SDLC** in various models like **Waterfall** and **Agile**.
- Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war from source code.
- Extensively worked on **Jenkins, Docker** for continuous integration and for End-to-End automation for all build and deployment.
- Configured and administered Jenkins for automated builds and Responsible for installing **Jenkins master** and **slave** nodes and maintenance of build pipeline.
- Application Deployments & Environment configuration using **Ansible**.
- Created and Maintained **Ansible Playbooks** to simplify and expedite deployment of applications



and mitigate user error.

- Experience with container-based deployments using **Docker** working with **Docker images, Docker Hub** and **Docker registries** and **Kubernetes**.
- Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker** Containers.
- Proficient with container systems like Docker and container orchestration like **EC2 Container Service, Kubernetes**.
- Used **Kubernetes** to orchestrate the deployment, scaling and management of Docker Containers.
- Proficient in Networking and configuring **TCP/IP, DNS, NFS, LDAP, SSH, SSL, SFTP, SMTP, SNMP**.
- Excellent understanding of SDLC Methodologies like Agile, Waterfall.
- Implementation and automation of **Shell** and **Python** scripts for release and build automation.
- Designed and developed automated disaster recovery for **Jira, Gitlab, Jenkins**.
- Expertise in configuring Log monitoring tools like **Prometheus, Grafana** to monitor logs of applications in prod and non-prod.
- Championed in cloud provisioning tools such as **Terraform** and **CloudFormation**.
- Used **MySQL, MSSQL, PostgreSQL** and **DynamoDB** to perform basic database administration.
- Design and development of web-based applications using different Web and application servers such as **Apache Tomcat**, and **Nginx**.
- Involved in **migrating** and managing multiple applications from on premises to **AWS Cloud**.
- Expertise in **Azure infrastructure** management (Web Roles, Worker Roles, SQL, Storage, AD Licenses, Office365), Virtual machine backup and recover from a Recovery Services Vault using **PowerShell** and **Portal**.
- Worked on **Cloud Architecting** and Implementing **Azure Service** Offerings such as Azure cloud services, storage, IIS, Active Directory, Resource Management, SQL, VM, VNETS, Network Gateways/Load Balancers, Files and functions, service bus.
- Hands on Experience in handling **Azure Storage, Blob Storage, File Storage**, Setting up of **Azure CDN** and **load balancers**.
- Deployed workloads on **Azure Resource Manager (ARM)** Virtual Machines.

#### TECHNICAL SKILLS:

Operating Systems	Unix/Linux , Ubuntu, Windows XP/2000/2003/2008, Centos, MAC OS
Versioning Tools	Gitlab, Bitbucket, GIT
Languages/Scripting	Java, C#, Python, HTML, JavaScript, HTML5, CSS3, XSLT, Perl scripting, Shell scripting, Python scripting, Ruby.
Cloud Technology	AWS - EC2, S3, EBS, ELB, VPC, IAM, Cloud Formation, AWSCLI, RDS, CloudTrail, Route53, CloudWatch, SNS, SMS, SQS, EFS, Cloud Deploy, EMR, Redshift, IAM, AWS config.
Bug Tracking Tools	JIRA
Monitoring Tools	Prometheus, Grafana
Web/Application servers	Apache Tomcat, Nginx, Apache
Build Tools	Jenkins, ANT, MAVEN, Nexus and AWS Codebuild
RDBMS	Oracle, SQL SERVER, MYSQL, RDS, PostgreSQL
Configuration Management tools	Ansible

#### Certifications:



- AWS Certified DevOps Engineer Professional (AWS-DOP)

## PROFESSIONAL EXPERIENCE:

**Natsoft Corporation**

**May-2016 - Till date**

**Role: Sr. Cloud DevOps Engineer**

### DevOps Engineer Responsibilities:

- Design, implement and support end-to-end **CI (Continuous Integration)** and **CD (Continuous Deployment)** pipeline for multiple projects.
- Designed **CICD** solution using **AWS pipeline** templates to support reusable templates for supporting several teams.
- Coordinate with the **Development, Database Administration** and **QA** teams to ensure there are no resource conflicts.
- Configure, monitor, and automate **Amazon Web Services** as well as involved in deploying the content cloud platform on **Amazon Web Services** using **EC2, ECS, Elastic Beanstalk, S3, CloudFront** and **EBS**.
- Successfully configured **HA Kubernetes cluster** with 3 masters and 5 worker nodes.
- Written **Kubernetes** **yaml** files for deployment of **Microservices** into **Kubernetes clusters**.
- Created the groups, policies in **IAM** to maintain least privilege access to the users.
- Worked on **AWS EBS Volumes, Cloud Formation** and **Cloud Watch** services.
- Created **CloudWatch** logs streaming for all production environments and alarms for known exceptions of the application.
- Deployed **Application Load Balancer** for multiple **EC2 instances** and **Autoscaling** to design cost effective, fault tolerant and highly available system.
- Created **S3 buckets** and maintained and utilized the policy management of **S3 buckets** and **Glacier** for storage and backup on **AWS**.
- Worked on the **AWS encryption** such as **AES-256** and **CMK** keys to encrypt the **EBS volumes** and data present in the **S3 buckets**.
- Experience in **S3 versioning** and life cycle management and move the infrequently access data into the **Glacier** to maintain the cost.
- Worked on creating the **cloud formation** templates to automate the **AWS infrastructure**.
- Automate provisioning and repetitive tasks using **Terraform** and **Python**.
- Created monitors, alarms, and notifications for **EC2 hosts** using **CloudWatch**.
- Monitoring of infrastructure and third-party applications using **Prometheus** and **Grafana** in **AWS** environment.
- Setting up **Continuous integration** and **delivery practices** for new projects as per the requirement.
- Install, configure, and manage version control tool (**Git, Bitbucket**) to keep track of developer's code with version number.
- Creating **repositories** with branches as per the developer's requirement and assigning permissions as required.
- Develop and maintain **shell scripts** for build and release tasks.
- Deployments to the target environments based on business & project team requirements.
- Responsible for installing **Jenkins master** and **slave nodes** and configure **Jenkins** builds for continuous integration and delivery.



- Worked on version control using GIT and Gitlab and continuous integration management using **Jenkins**.
- Integrated Git into Jenkins using (Git, Bitbucket plugins) to automate the code checkout process and configured the jobs on **Jenkins** and **AWS Codebuild** to generate auto builds whenever the code is checked-in to the Bitbucket repository.
- Worked on creating and configuring the **Jenkins** jobs for data engineers.
- Used **Jenkins**, Build forge for Continuous Integration and deployment into **Tomcat** Application Server.
- Created Docker images using a **Dockerfile**, worked on **Docker container snapshots**, removing images, and managing **Docker volumes**.
- Design and implement **Docker Swarm cluster** for Dev and testing environments.
- Involved in build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing **Ansible** with **AWS Cloud Formation** and **Jenkins** for continuous integration.
- Create develop and test environments of different applications by provisioning **Kubernetes clusters on AWS using Docker, Ansible, and Terraform**.
- Extensively experienced in Bash, **Python**, **shell** scripting on Linux to automate Devops tasks.
- Written **Ansible playbooks** to simplify and automate deployments, and installation of new packages.
- Managed build and deployment scripts using YAML in **Ansible**, triggered the jobs using Jenkins to move from one environment to across all the environments.
- Used **Ansible** as configuration management tools, to automate repetitive tasks, quickly deploys critical applications, and proactively manage changes.
- Used Ansible as the Configuration tool and wrote **Ansible playbooks** to automate the process of creating the master and Worker nodes in Kubernetes Environment.
- Design, build and manage the **Azure infrastructure** depends on organization requirement.
- Designed and configured **Azure Virtual Networks (VNETs)**, subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
- Migrated legacy applications from On-premises servers to AWS and Azure cloud environment.
- Assisted Developers in writing build scripts for **Angular.js** and **Node.js** builds.
- Planning and implementing **Disaster Recovery** solutions, **capacity planning**, data archiving, **backup/recovery strategies**, **Performance Analysis**, and **optimization**.
- Experience on installing and configuring **SSL certificates** in web servers.
- Attending the change control meetings with Release management to get necessary approvals with Stake holders.
- Worked closely with Project Managers to understand a code/configuration release scope and how to confirm a release was successful.
- Provided 24/7 on-call Production Support to ensure availability, efficiency, and recoverability.

**Environment:** AWS, Azure, Ansible, Jenkins, YAML, Terraform, AWS DevOps, Docker, Kubernetes, HELM, GIT, Microservices, ART, DevSecOps, Windows/Linux, SAN/NAS, Prometheus, Grafana, Java, API.



### **Network Administrator Responsibilities:**

- Responsible for the configuration, implementation and Troubleshooting of **Cisco and Netgear Router & Switch and FortiGate Firewall**.
- Designing and installing **LANS & WANS internet & intranet** systems and network segments.
- Duties included monitoring network performance using various network tools to ensure the **availability, integrity and confidentiality** of application and equipment.
- Creating users, Groups file system security, access enumeration and Network Management on **Windows server 2012/2016/2019** platforms.
- Hands-on experience with **Microsoft 365 Business Tools SharePoint, PowerApps, OneDrive, Exchange online** administration.
- Created and administered **Sharepoint sites** for organization to store all kind of documents with proper permissions and to **collaborate** with other teams.
- Purchasing domains from various providers like **GoDaddy, Network Solutions, Aplus, AWS** for organization.
- Hands-on experience in planning and setting up **New Infrastructure**.
- Design, configure, install, and maintain all on-site servers and remote servers.
- Document server configurations, and scripts, and all other relevant information in a repository to share information.
- **Monitoring & Documenting** the Logs in the Organization.

### **Education:**

- Master of Computer Application from P.B. Siddhartha College of Arts & Sciences, Vijayawada - 2012