**NARESH A**

**DevOps Engineer**

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**PROFESSIONAL SUMMARY**

**5.6 years** of experience in the areas of **DevOps**, **Continuous Integration and ContinuousDelivery pipeline.**Experience in writing automation scripts to create Infrastructure in **AWS and AZURE Cloud** .

**DevOps :**

* Implemented DevOps pipeline **Automated Builds**, Continuous **Integration** and **Continuous Delivery**  using **Jenkins**
* Expertise in Setup Jenkins mater-slave configuration
* Expertise in writing playbooks and creating Roles for Scalability and Reusability in **Ansible.**
* Implemented automating **Continuous Integration & Continuous Delivery** pipeline using **Azure DevOps.**
* Worked on **Chef Cookbooks** and Chef recipes to automate infrastructure as a code. Setup the Chef Nodes, Chef Client, Chef Server, and Chef Workstation . Worked on Bootstrapping the Nodes .
* Test automation code in virtual environments and with testing tools such as Test Kitchen.
* Experience in Containerization tool like Dockers.
* Experience in**Kubernetes** as a container orchestration system for Docker containers.
* Hands-onExperience in **AKS and EKS**
* Automate create and configuration of infrastructure using **Terraform(IAC)**
* Good Knowledge on logging/ monitoring tools like **ELK** Stack (Elastic search, Log stash, Kibana)
* creating reusable images in AZURE and AWS using **Packer**

**AWS :**

* Worked on Amazon Web Services ( EC2, ELB, VPC, S3, IAM, RDS, Route 53, Cloud Watch, SNS)
* Launching Amazon EC2 Cloud Instances using (Windows/Ubuntu/RHEL) and Configuring launched instances with respect to specific applications.
* Managing user access to AWS resources using Identity Access Management (**IAM**)
* Configure Security Groups for EC2 Instances.
* Built S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS
* Configuration of AWS CLI to automate certain regular task
* Creating new EBS and EFS volumes and attaching same to EC2 instance when needed.
* Maintaining and upgrading the EC2 instances according to the requirements.
* Hands-on**CloudWatch** Alerts (CPU Utilization, Memory Utilization, and System Utilization)
* Automated provisioning, configuration and deployment in AWS environment using **CloudFormation**.
* Knowledge on AWS Server Migration, From **VMware ESXI**and **Hyper-V**to AWS using SMS.
* Good Knowledge on SystemManager for automation
* Creating and Managing DNS records on Amazon Route53
* Hands-on Experience in Code commit in AWS
* Created Bastion Host to access Private Instances in AWS.
* Knowledge on System manager

**AZURE:**

* Experienced with deployments, Maintenance and troubleshooting applications on Microsoft Cloud infrastructure Azure.
* Managing Azure Resource Groups, VM Compute, Vnet, Storage, and Azure Active Directory.
* Hands on experience of managing Microsoft Azure Services via Azure Portal & PowerShell Azure CLI , ARM Template.
* Implemented automating **Continuous Integration & ContinuousDelivery** pipeline using **Azure DevOps**.
* Configure a VNet-to-VNet VPN gateway connection and Vnet Peeringby using the Azure portal and CLI , PowerShell and ARM Template
* Configured Azure AD, users, groups, Integrating on-premises AD to Azure AD
* Worked on Configuration of Internal load balancer, external load balancer, applicationgate way and Azure Traffic manager.
* Worked on Azure Site Recovery, Operations Management Suite
* Worked on Microsoft Azure Storage - Storage accounts, blob storage, managed and unmanaged storages.
* Knowledge about replication policy like LRS, ZRS, GRS and RA-GRS.
* Hands on AZURE Server Migration, From **VMware ESXI**and **Hyper-V**to AZURE
* Hands on experience on Backup and recovery Azure Site Recovery.
* Configuration of AZURE CLI to automate certain regular tasks.
* Managing Azure Role-Based Access Control (RBAC) for cloud resources.
* Created Jump Box to access Private Instances in Azure.

**Technical Skills:**

Operating System : Linux and Windows

Version Control :Git , code commit and azure repo

CI /CD Tools :Jenkins , Azure DevOps , Maven , Artifactory(Jfrog), SonarQube.

CM Tools: Chef , Ansible , Powershell DSC

Container: Docker, Kubernetes (OCE)

Infrastructure As a Code : Terraform , CloudFormation, ARM Template .

Scripting Languages : Power shell, bash shell

Database : MS SQLDBA

Monitoring tools: AWS Cloud Watch , ELK , AZURE Monitoring

**Professional Experience:**

Client: Verizon Duration: 2020-Oct to Present

Location: Hyderabad

Role: DevOps Engineer

**Roles & Responsibilities:**

* Create and maintain Infrastructure in multiple environments using Cloudformation
* Install and Configure environments using Ansible Roles
* Deploy artifacts into Production Servers in multiple Data Centers
* Monitor Applications Using Newrelic And Kibana
* We use Rehydration Process for Maintain latest AMI for EC2 Machines
* Involve in Server and DB Patching’s
* Used **Kubernetes (EKS)**to orchestrate the deployment, scaling and management of Docker Containers.
* Involve in LoadTest for multiple applications
* Implemented AWS services **IAAS, PAAS**

Client: Tech Mahindra Duration: 2016-July TO 2020-Oct

Location: Hyderabad

Role: DevOps Engineer

**Responsibilities:**

* Implemented automating **Continuous Integration & ContinuousDelivery** pipeline using **Jenkins**, **Docker** and **Ansible** tools.
* Experience in automated build pipeline through Jenkins file, Continuous Integration and Continuous Delivery (**CI/CD**).
* Responsible for adding and managing nodes in Jenkins
* Involved in maintaining upstream and downstream project
* Build Package / Artifact Management with tools like **Maven** and**Artifactory.**
* Responsible forcheck code coverage and code quality with **SonarQube**.
* Build deployment pipelines using Jenkins as front end for continuous **Delivery** to local staging and test environment and to PrePROD environment on demand using **Ansible**
* Writing playbooks and creating Roles for Scalability and Reusability in **Ansible**.
* Expertise in writing **playbooks** in setting up complete application stack which includes services like Apache, Tomcat, MySql,
* Involved in writing **playbooks** for installing the different environments like DEV, QA UAT for preproduction.
* **Dockerized** applications by creating **Dockerimages** from Docker file**.**
* Building and deploying Micro Services on **Kubernates** using **Azure Kubernetes Service**.
* Extensively involved in infrastructure as code using **Terraform**. creating **AWS and AZURE**infrastructure
* Install beats in some application server in order to fetch logs that are useful for monitoring using **ELK (elastic search, log stash and Kibana)**.
* Working as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts.
* Configured Azure Virtual Networks (VNets), subnets, Azure network settings, CDIR address blocks, DNS settings, security policies.
* Worked on Configuration of Internal load balancer, load balanced sets and Azure Traffic manager.
* Managing day to day activity of the cloud environment, supporting development teams with their requirements.
* Deploying Azure resources via Azure Automation by developing ARM templates (infrastructure as code)
* Experience in Power Shell scripting for creating azure resources
* Worked on Microsoft Azure Storage - Storage accounts, blob storage, managed and unmanaged storages.
* Involved in Server Migration From VM ware ESXI and Hyper-V to AWS using Server Migration Server
* Involved in Server Migration From VM ware ESXI and Hyper-V to AZURE using AZURE Migrations
* Configured Azure AD, users, groups, Integrating/Extending on-premises AD to Azure AD using AD connect.
* Involved in managing user, groups, service principal in azure active directory and also worked on Role based access control (RBAC) for implementing Just in time and Just enough access for various azure services.
* Worked on Azure Policy and Azure Monitor for configuration of various customized requirement and Alerts
* Configure Azure Backup & Recovery Services using ASR
* Configure a VNet-to-VNet VPN gateway connection and VNetPeering , Hands-on experience of creating point-to-site VPN and Site-to Site VPN.
* Worked on Amazon Web Services ( EC2, ELB, VPC, S3, IAM, RDS, Route 53, Cloud Watch, SNS)
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployments
* Creation of AWS account, creating user and assigning IAM role, allocation of user policy to individual user
* Configured Cloud Watch Alerts (CPU Utilization, Memory Utilization, and System

Utilization)

* Hands on experience on VPC like creating own CIDR block, subnets, assigning IP's and launching instances into VPC

**Environment: Git , Jenkins , Ansible, Docker , Kubernetes(AKS), Terraform , ELK , RHEL , Ubuntu, AWS , AZURE , Tomcat , MySql ,apache and httpd , Jfrog , SonarQube.**

**Professional Experience:**

* Client: 3I INFOTECH Duration: 2015-April TO 2016-JUNE
* Location: Hyderabad
* Project Name: ICICI prudential
* Role: SQL DBA administrator

**Responsibilities:**

* SQL Server 2008, R2 & SQL Server 2012 installations, configuration and security Settings for standalone servers.
* SQL server daily health check.
* Taking Backups regularly through Jobs.
* Develop and implement Database Administration/Maintenance Plan for SQL Server.
* Designing and supporting high availability SQL Server solutions that include Log shipping, Mirroring, Replication.
* Design and implement Database Maintenance and Upgrade Plan.
* Heavily involved in troubleshooting, resolving data integrity and performance issues.
* Working on Migration activities.
* Coordinating with the DBA Support Team on production support issues.
* Establish performance and set thresholds for monitoring and alerting.
* Run DBCC CHECKDB and ensure physical and logical consistency of the databases.

**EDUCATION:**

* Bachelor of Technology in 2013