Narasimha

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DevOps and cloud professional with 9+ years of experience in the IT industry in all phases of SDLC like Analysis, Design, Development, Deploying, Testing and Maintenance of various applications with Configuration Management, Continuous Integration and Delivery/Deploy (CI/CD) on cloud platforms like AWS, Azure, GCP.

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* Good understanding of full **SDLC** methodologies such as **Agile**, **Scrum** with Solid expertise on software

**Build/Release**, configuration process and **DevOps** Engineering.

* Proficient in using **Azure DevOps** to manage development processes, including code release management, build and release management, and continuous integration and deployment (CI/CD) practices. Design and deploy reliable and scalable solutions on Azure, using services like Azure Virtual Machines, Azure Functions, Azure App Service, and **Azure Kubernetes Service (AKS).**
* Extensive knowledge on Azure Resource Manager (ARM) and migrating the on-premises resources to Azure using Azure Site Recovery (ASR) and Azure backups, creating virtual machines by specifying deployment parameters in **Azure Resource Manager (ARM)**
* Expertise in **Azure** Application Insights, Logic Apps, Data Factory, Service Bus, Traffic Manager, Azure Monitoring, Azure OMS, Key Vault, Cognitive-Services (LUIS) & SQL Azure, Cloud services, ExpressRoute, Load Balancing.
* Designed and implemented Azure ExpressRoute and Hub-and-Spoke architectures for various use cases, such as connecting on-premises data centers to Azure, and creating a secure, scalable network infrastructure on Azure. **Networking** technologies such as Virtual Private Networks (VPNs), Azure Virtual Networks, Network Security Groups (NSGs), and Azure Load Balancers.
* Hand-on experience in multiple cloud platforms which includes **AWS, Azure, GCP, DigitalOcean and Hetzner cloud**. Provided release engineering support and Automated **Fortify**/ **BlackDuck**/Sonar/Preloads as part of DevOps strategy that Improves **build-test-release** process through automation and productivity tools developments.
* Experience in branching, merging, tagging, and maintaining the version across the environments using version control tools such as **GIT**, **SVN**, **Bitbucket**, **GitHub** and **GitLab**.
* Proficient in using global **CloudFormation** with **AWS CodePipeline** and AWS Code Deploy to implement continuous integration and continuous delivery (**CI/CD**) pipelines, as well as in writing CloudFormation templates using YAML or JSON to define AWS services such as EC2 instances, security groups, S3 buckets, and Lambda functions, and automating the deployment and management of AWS infrastructure, including multi-region, multi-account, and hybrid cloud environments.
* Expertise in integrating **AWS Lambda** with other AWS services, such as Amazon S3, Amazon DynamoDB, Amazon Kinesis, and Amazon SQS, to build event-driven architectures and programming languages such as Node.js, Python, Java, and C# to write and deploy Lambda functions.
* Hands on experience in **Amazon Web Services (AWS)** provisioning like VPC, S3, Glacier, ELB (Load Balancers), RDS, Backup, SNS, SWF, EBS, Auto Scaling, Elastic Beanstalk, Security Groups, Redshift, Cloud Watch, Cloud Trail, **AWS Security Hub**, AWS config, CloudFront and Route53 etc.
* Experience in configuring serverless applications by using AWS Lambda with API, S3 frontend, Kinesis Data Stream, and Data Firehouse, **RDS** services for data transition under **CloudWatch** and CloudTrail monitoring.
* Efficient in writing reusable infrastructure as a code (**IaC**) in **Terraform**, Azure resource management (ARM), Aws Cloud formation to provision services in multi-cloud (AWS, Azure and GCP) platforms.
* Worked with the **Groovy scripts** in Jenkins to execute jobs for a continuous integration pipeline where **Groovy Jenkins Plugin** and Groovy Post Build Action Plugin is used as a build step and post build actions.
* Extensive experience in **Kubernetes** cluster management, including creating Pods and Nodes, deploying microservices from **Docker Registry**, managing **Helm charts**, manifest files, and application workloads. My experience spans across various cloud platforms such as AKS, EKS, and GKE, as well as self-hosted Kubernetes and Kubernetes management platforms like **Rancher**
* Proficient in implementing **Istio** to manage and secure **service mesh** in Kubernetes environments, including knowledge of Istio architecture, Istio components, and Istio networking and with the architecture, workflows, and best practices of **Argo CD** and experience building continuous delivery (CD) for Kubernetes and Istio-based apps.
* Used **Kubernetes** to orchestrate the deployment, calling and management of container application workloads. Extensive working Knowledge on **Docker**, **Docker Hub**, **Docker Compose**, **Docker Swarm**, Network/Volumes, **DockerFile** For building Images primarily for middleware installation &domain configurations, Evaluating Kubernetes for Docker container Orchestration.
* Installing, Configuring, and managing the **Ansible** Centralized Server and creating the roles and playbooks to support various middleware application deployments, servers, and involved in configuring the Ansible tower as a configuration management tool to automate repetitive tasks.
* Well versed with Installing and configuring an automated tool **Chef** that includes the writing chef cookbooks and recipes, policy files and configuration of the Chef master, agent nodes and an admin control workstation.
* Worked on setting up automatic compile, package, test, build (**Maven, Ant, Gradle**) and deploy .NET, J2EE, SOA & Micro services Architecture Environment (NodeJS, .Net Core, Zookeeper, Kafka, Redis) applications to Web Sphere, Nginx, Tomcat, WebLogic, IIS and JBoss Application Server
* Good understanding of OSI Model, TCP/IP, UDP, DNS network, load balancing, firewalls. Expertise in Installing and Managing LDAP, NIS, NIS+, NFS, DHCP, HTTP, FTP, SSH, DNS etc.
* Hands-on experience in integrating a range of testing tools, including **SonarQube**, JUnit, Jasmine, and Karma, to ensure the quality of code and identify issues in the early stages. Also leveraged SonarQube in conjunction with Jenkins to improve the quality of source code by implementing and managing efficient CI/CD processes.
* Experience in working with different **monitoring tools** like Nagios, ELK/EFK/Elastic stack, Dynatrace, DataDog, New Relic, Prometheus-Grafana, SolarWinds NPM and Splunk to monitor infrastructure, APM, detecting network outages and protocol failures.
* Extensive involvement in LINUX/UNIX system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting on RHEL.
* Good interaction with developers, managers, team members and clients and gathering requirements, analyzing, and working with the team accordingly. Proven ability to learn and rapidly adapt to new challenges.

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**Cloud Environments:** Amazon Web Services (AWS), Azure, Google Cloud Platform (GCP).

**Operating Systems:** Red Hat, CENTOS, Ubuntu and windows

**Web & Application Servers:** WebLogic, WebSphere, JBoss, IIS, Tomcat, Nginx.

**Build Tools:** Ant, Maven, Gradle, NPM and Make

**CI/CD Tools:** Jenkins, Bamboo, Azure DevOps (VSTS)

**Containerization Tools**: AWS ECS, Docker, ACI, Google Container Engine

**Configuration Management tools:** Chef, Puppet, Ansible

**Version Control Tools:** Git, GITHUB, GitLab, Bitbucket.

**Provisioning Tools:** Terraform, Cloud Formation, Azure Resource Manager Templates

**Orchestration Tools:** Kubernetes, EKS, GKE and AKS

**Scripting:** Bash Scripting, Ruby, Perl, PowerShell, YAML Python, Groovy.

**Monitoring Tools:** CloudWatch, Databog, Splunk, New Relic, ELK Stack and Azure Monitor.

**CERTIFICATION**

**Microsoft Certified**: Azure Administrator Associate (Az-104)

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**Verizon** ( Jan 2021 - Mar 2023 )

# Senior DevOps Engineer

* + As part of the **DevOps** team My role includes release management, Environment Management, deployments, continuous integration (CI), continuous delivery (CD), continuous deployment (CD), Incident management, Version management.
  + Implemented **CI/CD pipelines** using Jenkins & Docker which improved development efficiency by 80%, allowing developers to quickly test new Features without sacrificing quality or performance.
  + Designed the Release Plans while coordinating with Stakeholders including Project Management Lead, Development Lead QA Team Lead
  + Managed central repositories: Implemented Atlassian stash along with GIt to host **GIT** central repositories for source code across products, facilitate code reviews and login audits for security compliance.
  + Implemented CI/CD using **Jenkins** and configured **DevSecOps** strategies, used Static Analysis Security Testing (SAST) and Dynamic Analysis Security Testing (DAST) to eliminate security flaws, vulnerabilities present in the source code and running application.
  + Built end to end CI/CD Pipelines in **Jenkins** to retrieve code, compile applications and create job chains with Jenkins Job Builder, Parameterized Triggers, and target host deployments.
  + Created Jenkins pipelines several Downstream/Upstream job configurations based on dependencies from other applications & based on Release methodologies.
  + Experience in managing **Ansible** Playbooks, roles, and modules. Designed Rapid Application Deployment (RAD) methods using Ansible to automatically deploy servers as needed and done custom development by taking playbooks from Ansible Galaxy.
  + Automated various infrastructure activities like Continuous Deployment (CD), Application server setup, Application management, stack Monitoring using **Ansible Playbooks** and integrated Ansible with Jenkins also provisioned and patched servers using Ansible.
  + Worked on **Amazon** EC2 with **AWS cloud services** for installing, configuring, and troubleshooting on various Amazon images like Amazon Linux AMI, Redhat 7/8/9, Ubuntu 16/18/20. Created and managed multiple Instances of WebLogic, WebSphere, Apache Tomcat and deployed several applications in those instances in the Lower environment. Automated by using **Packer** and **Terraform**.
  + Created Jenkins CID pipelines for continuous build & deployment and integrated Junit and SonarQube plugins in **Jenkins** for automated testing and for Code quality check. Integrated SonarQube with Jenkins for continuous inspection of code quality and analysis with **SonarQube** scanner for Maven.
  + Implemented advanced release strategies such as **Blue-Green** and **Canary** releases to improve application deployment and minimize downtime, ensuring maximum customer satisfaction to reduce the risk of application downtime and failures during release cycles.
  + Configured commercial **SSL** certificates for high availability application servers such as **WebSphere**, WebLogic, Tomcat using Nginx and Apache web servers to terminate SSL endpoints.
  + Established processes and tools to maintain code base integrity, including check-in validation rules and Branch/merge processes. Also Used Bash and **Python** Scripts for automating the daily tasks.
  + Documented Build process, branching strategy and continuous integration design and setup along with deployment instructions for QA and Co-ordinate build and release cycles on the request of business with dev teams, testing teams and project management.
  + Successfully created **Kubernetes** pipeline of deployment & operation activities where all code is written in java, python, reactJS and angular stored into GitLab for staging & testing purpose.
  + Used **Ansible Tower**, which provides an easy-to- use dashboard and role-based access control, so that it is easier to allow individual teams access to use **Ansible** for their deployments.
  + Involved in troubleshooting and fixing day-to-day problems of the applications in QA, Pre-Prod, and Production Environments
  + Managed Kubernetes environment using **Helm charts** and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages and used **Kubernetes** and **Docker** for the runtime environment for the CI/CD system to build, test, and deploy applications in Dev, QA and Pre-Prod Environments.
  + Support large-scale deployments across multiple AWS regions, with data feeds from multiple on-premises data centers.
  + Build visualization and Dashboards using **Kibana**. Configured **Logstash**: input plugins- Beats, log4j application logs, filter (Grok pattern), output plugins - database, jms, log file sources and elastic search as output converting search indexes to Elastic with large amounts of data.
  + JIRA has been used as a bug tracking tool and created, maintained, and customized complex **JIRA** project configurations including workflows, custom fields, permissions and notifications & managed all the bugs and changes into a production environment using the JIRA tracking tool.
  + Coordinated with the Project Management, Development and QA Team in resolving any configuration and deployment issues, and to provide a smooth release process.
  + Provided 24x7 on-call support for production / non-production environments.

**CloudSeals** ( Feb 2019 - Aug 2020 )

# Cloud/DevOps Engineer

* + Responsible for the end-to-end migration of the servers from the on premises to cloud (Lift and shift) and diagnosing migration related concerns regarding the infrastructure and reducing the efforts of the pre-migration checks through **PowerShell** Scripting.
  + Worked with **Azure Resource Manager (ARM)** to deploy, update and delete multiple Azure resources like Azure virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Load Balancing, Application Gateways, and Auto – Scaling, AKS, Cosmos DB, Monitor, RBAC, Azure VPN-Point to Site, Virtual networks, Azure Custom security, Endpoint security and firewall.
  + managed Azure enterprise applications, registered users, and implemented security measures like **Azure Active Directory** authentication and **RBAC** to ensure data privacy and prevent unauthorized access. This helped to make sure that the applications were secure and accessible to the right users.
  + Created and enforced Azure Policies to ensure compliance with security and governance standards, such as enforcing resource tagging or restricting the use of certain resource types.
  + Implemented **Azure Privileged Identity Management (PIM)** to manage privileged access for users and groups, ensuring adherence to security policies and minimizing the risk of unauthorized access to critical resources.
  + Worked on Serverless services, created and configured HTTP Triggers in the **Azure Functions** with application insights for **monitoring** and performing load testing on the applications using the Azure DevOps also called as Azure DevOps Services.
  + Created and maintained a central repository of Azure Blueprints using **Azure DevOps Repos** and **Azure Resource Manager (ARM)** templates, ensuring the consistency and scalability of infrastructure code across multiple environments and regions, while providing version control and auditability.
  + Creating Azure Backup Vault and protecting required VMs to take the VM level backups. file/folder level Backup and Implemented **CIS benchmark** standards for the cloud security and implemented the Azure best practices for securing the workloads in the cloud and migrating on-premises resources to Azure with Azure Site Recovery (ASR) and **Azure backups**.
  + Worked on the DNS & Akamai setup for browsing the Sites on Internal Server and worked on the **Azure Event Hubs** and Splunk Index for Monitoring Logs for Tenant Specific.
  + Analyze and resolve compilation and deployment errors related to code development, GIT branching, merging and Used Ant, Maven to perform daily and weekly Software Builds of source code.
  + Used Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in **Azure portal**, with the **Azure CLI**, also used template driven deployment options such as Resource Manager templates and terraform.
  + Wrote **Terraform** Sentinel policies and Integrated with Terraform which are executed as part of provisioning pipeline. Multiple environments, enabling teams to safely deploy code in **Azure Kubernetes Services (AKS**) using YAML scripts.
  + Configured and deployed containerized applications on Azure Kubernetes Service (AKS) using Istio Service Mesh, improving application performance and reliability by implementing advanced traffic management, security, and observability features.
  + Created Service Connections to Azure subscriptions, **Azure Container Registries**, and Azure Key Vaults, as well as created and managed Service Principals for Azure Active Directory (AAD) authentication, enabled seamless integration of Azure resources in the DevOps pipelines.
  + Deployed and optimized a two-tier.NET web application to **Azure DevOps** so that I could focus on development by using services like Repos to commit codes, Test Plans to trigger application and unit tests, deployed artifacts to App Service, and Azure Application Insight to collect process health, performance, and usage data.
  + Leveraged Prometheus and **Grafana** for monitoring the Kubernetes object metrics in regular intervals of time and configuring alerts from the Azure Kubernetes cluster via email-notifications and web-hook mechanisms, written Python script for Prometheus Alert-manager alerts to send and run the alerts in Linux VM.
  + Strong Windows Azure experience in a .NET stack of technologies, proficient in Windows Azure deployments, incident management, production support for Azure components, IIS/SQL server, IT administration and maintenance, Project Management, PowerShell scripting, live site incident management.
  + Written **Ansible Playbooks** in YAML as the Wrapper to Manage Configurations of Azure Nodes and Test Playbooks on Azure instances using Python SDK and Automated various infrastructure activities like continuous deployment, application server setup, and stack monitoring using Ansible playbooks and **roles** for multiple environments like Dev, QA, UAT, Pre-Prod and Prod.
  + Collaborated with cross-functional teams to integrate Dynatrace with other monitoring and logging tools in the **Azure DevOps pipeline**, including Azure Monitor, Application Insights, and Log Analytics, resulting in comprehensive observability and improved application performance. This led to a significant reduction in downtime.

**NXTvision** ( Nov 2016 - Jan 2019 )

# Cloud Engineer

* + Work with the architectural lead for the migration of several applications to **AWS Cloud** as per the Cloud Reference Architecture.
  + Deploying, managing, and operating scalable, highly available, secure, and fault tolerant systems on AWS.
  + Implemented Large Scale Cloud Infrastructure (250+ servers) using **AWS resources** - IAM, Elastic IP, Elastic Storage, Auto Scaling, VPC, EC2, EBS, APIs ELB, Route 53, RDS, SES, SNS, SQS, OpsWorks, EMR, CloudFormation, S3, Lamda (Server less), Elastic Beanstalk, ECS and CloudFront.
  + Configuring and troubleshooting DNS working with Route 53.
  + Deployed and configured **Chef** Server including bootstrapping of chef client nodes for provisioning and Created roles, recipes, cookbooks, and data bags for server configuration.
  + Configuring **AWS workspaces** and working with Classic Load Balancing.
  + Writing IAM policies in JSON to give granular permissions for different users.
  + Schedule lambda scripts to take the AMI backup of the **EC2** Instances and tagging purposes.
  + Uploading the backups to **S3** bucket and retrieving the same whenever needed
  + Configured Auto scaling based on the application loads and utilization metrics.
  + Creating **RDS** instances, taking snapshots and restoring the backup during major deployments.
  + Creating IAM roles to provide access to users, applications, or services to access AWS resources and components.
  + Creating and mounting **EFS** on multiple servers to ensure Synchronization of data across the servers.
  + Migrating AMI's and RDS snapshots across accounts to different regions.

**AASHIKA Tech** ( Nov 2014 - Oct 2016 )

# Freelancer/Software Engineer

* + Understanding the client requirement and developing the code using Python scripting
  + Developed the code by using Python - Login, Register information modules.
  + Designed and developed components using **Python** with **Django** framework. Implemented code in python to retrieve and manipulate data.
  + Performed testing using Django's Test Module. Involved in AJAX driven applications by invoking web services/API and parsing the **JSON** response.
  + Implemented database access using **Django ORM**. Used **MySQL** as backend database and MySQLdb of python as database connector to interact with MySQL server.
  + Used **Restful APIs** to access data from different suppliers.
  + Used **Python and Django** creating graphics, XML processing of documents, data exchange and business logic implementation between servers.
  + Associated with Restful API's to gather network traffic data from Servers.
  + Involved in development of main modules like CV import, bulk content upload.
  + Supported **Apache Tomcat** web server on Linux Platform.
  + Support the scripts configuration, testing, execution, deployment and run monitoring and metering.
  + Developed and executed User Acceptance Testing portion of test plan.