# **[Microsoft Certified: Azure Administrator Associate](https://www.youracclaim.com/badges/b0bbc0ce-8724-495f-a835-c749198302f7/public_url)[AZ-400 Designing and Implementing Microsoft DevOps Solutions](https://www.youracclaim.com/badges/302ba947-95aa-4054-82de-4abca1820c90/public_url)[CKA: Certified Kubernetes Administrator](https://www.youracclaim.com/badges/f89c959b-98b9-4c40-81dc-6de295624f6f/public_url)[Microsoft Certified: DevOps Engineer Expert](https://www.youracclaim.com/badges/dcb7758f-03b5-4279-89c8-045791ecc13b/public_url)****Naveen A**

**Mobile: 702-570-0736**

**Email: Naveen.a0216@gmail.com**

[**LinkedIn**](http://www.linkedin.com/in/naveen-a-0216)

**PROFESSIONAL SUMMARY:**

A Microsoft certified DevOps Engineer with 7+ years of IT experience in maintaining infrastructure and code using **Azure, Azure DevOps**. Certified **Kubernetes Administrator** with Expertise in Orchestration of Containers. Expert in using **Continuous Integration, Continuous Deployment (CI/CD),** **Software Configuration Management (SCM)** which encompasses experience in **Build/Release Management**, Implementing **CI/CD Pipelines**, **Cloud Services** like **Microsoft Azure** and **Amazon Web Services**, Delivery Management for both **Public** and **Private** Cloud Services.

* Expertise in using various Azure services like **Compute, Virtual machines**, **Virtual Networks,** **Azure Active Directory**, **Azure VPN Gateway**, **Azure search**, **App Services**, **Service Bus**, **Auto Scaling**, **API Management, Notification hub**, **Caching**, **Azure service fabric, Data Factory**.
* Experience in**Azure Cloud Services (PaaS & IaaS), Application Insights**, **Cosmos DB**, **Azure Monitoring, Azure OMS**, **Key Vault**, **Azure Databricks, Visual Studio Online (VSO)** **,Azure** **Data Lake Storage,** **SQL Azure** and in **Azure** Platform Development, Deployment Concepts, platform service and close interface with Windows Azure **MFA.**
* Worked on deploying and managing **Azure Kubernetes** **services** in which deployed microservices using **Azure container registry** and **Azure Kubernetes** **services** by giving authentication to Deployed microservices into cluster for scaling and management on **Azure** cloud services and worked on **Azure Web role**.
* Deployed and optimized two tier web applications to **Azure DevOps** to focus on development by using services such as **Repos** to **commit** codes, **Test** Plans to trigger application and unit test, deployed artifacts to App Service, Azure Application Insights to collects health performance and data usage of the process.
* Hands on experience on Implementing microservices, application development, and migration using **AWS/Azure** services such as **Azure DevOps Pipelines, Azure Kubernetes Service (AKS)**, **Azure** **Container Registry(ACR)**, **Cosmos DB**, **Azure** **Monitor**, **RBAC, Kubernetes(EKS)** and **Kubernetes API** to run workloads on **EKS Clusters**.
* Good Experience in automation and securing the infrastructure on **AWS** using **CloudFormation**, **Terraform**, **AWS** **Lambda** and building **CI/CD** on **AWS** environment using AWS **Code Commit**, **Code Build**, **Code Deploy,** and **Code Pipeline**.
* Expertise on **AWS** services such as **EC2**, **VPC**, **IAM**, **RDS**, **ELB**, **EKS**, **ECS**, **Auto Scaling**, **S3, Elastic Beanstalk, Lambda, Redis Cache, Route53, Ops Works, CloudWatch, Cloud Formation, Redshift, DynamoDB, SNS, SQS, SES, Storage Gateway, CloudTrail.**
* Proficient in using **CloudFormation** to deploy **AWS resources** using **Infrastructure as Code (IaC)** model and managed third party resources with CloudFormation by using AWS **CloudFormation** Registry and AWS CLI.
* Experience in maintaining microservices using **Kubernetes** as front-end orchestrator for docker containers and worked on setting up the **Kubernetes Cluster** on AWS(**EKS**) for testing the different features and to discover and proxy requests to appropriate minion and in creating Kubernetes cluster with **RHEL** and **Vagrant.**
* Expertise in Implementing **Kubernetes** for creating new Projects, Services for load balancing and adding them to **Routes** by accessing from outside, created Pods through new application and controlling, scaling, and troubleshooting pods through **SSH**.
* Experience in working on **cluster** management on **Kubernetes** to create Pods, Nodes, and deploying **microservices** pulled from the **Docker Registry** and managed by **Kubernetes**
* Experience in **OpenShift** platform in managing **Docker Containers, Kubernetes Clusters**, **Mesos** and implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure to create **Jenkins jobs** for deploying applications to **Kubernetes Cluster.**
* Experience with **Hashicorp Terraform** for provisioning and managing cloud infrastructure and configuring files topology of cloud resources including virtual machines, storage accounts, and networking interfaces.
* Expertise on using **Terraform** for automating **VPCs**, **ELBs**, **security groups**, **SQS** **queues**, **S3** buckets, and continuing to replace the rest of our infrastructure and managed different infrastructure cloud resources, **VMware, Bare Metal Servers** and **Docker Containers**.
* Experience in Orchestrating and migrating **CI/CD** processes using **Cloud** **Formation** and **Terraform** templates and containerized the infrastructure using **Docker**, which was setup in **Vagrant**, **AWS** and **VPCs**.
* Experienced in configuring **CI/CD** pipeline in **Jenkins** to implement **Continuous Integration** and **Continuous Delivery** process, accommodate software teams with compilation and **artifact** deployment requests in an **AWS** cloud environment.
* Administered **Jenkins** shared libraries for reusability functionalities to create Jenkins pipelines to build and deploy all microservices. Used **Jenkins** as **Continuous Integration** for creation of new jobs, managing required **plug-ins, build trigger, build system, post build actions, scheduled automation builds.**
* Experience in using **Jenkins pipelines** to drive all **microservices** builds out to the **Docker images,** storesin **Azure Container registry** and then deployed to **Kubernetes**. Created **Pods**, managed using **Kubernetes** and performed **Jenkins** jobs for deploying using **Ansible** **playbooks** and **Bitbucket**.
* Experience in **Docker** tools like **Docker** **swarm** and **Docker compose**. **Docker Swarm** to provide native clustering functionality for **Docker containers**, **Docker Compose** used to run the multi-Docker container applications and experience in **Kubernetes** orchestration.
* Experience on **Docker** hub, creating **Docker** images and handling multiple images primarily for middleware installations and domain configuration.
* Implemented & maintained branching with **build/release** strategies using **SCM** tools **GIT, GitLab, Subversion, Bitbucket** and experienced in **migrating Bitbucket repositories** to **GitHub.**
* Experience with **Ansible Playbooks,** modules, roles and used them in Cloud(**AWS, Azure**)environments and experience with **Ansible Tower** to manage multiple nodes and manage inventory for different environments.
* Extensively worked on **Chef Roles, Cookbooks, Recipes**, Templates, Resources**,** Attributes & Data bags. Proficient in the setup of **Chef Servers,** workstations & **bootstrapping** infrastructure **Chef Nodes** for configuration management.
* Hands on Experience in using various databases like **Oracle, COSMOS DB**, **Azure SQL**, NO SQL database like **MongoDB, DynamoDB**, **MySQL**, **Cassandra, Amazon RDS**.
* Well versed with Software development life Cycle (**SDLC**), Software Test Life Cycle (**STLC**) and Bug Life Cycle, worked with testing methodologies like Waterfall and Agile (SCRUM)
* Experience in using **Splunk** for Log analyzing and improving the performance of servers and Involved in standardizing **Splunk** forwarder deployment, configuration and maintenance across **UNIX** and **Windows** platforms.
* Proficient in Scripting languages like **Bash, Ruby, Groovy, Perl, Python and Power shell, JavaScript, JSON** and **XML** for automating administrative tasks.
* Experience in installing, configuring, supporting, and troubleshooting Unix/Linux **Networking services** and **protocols** like **TCP, SMTP, HTTP, SNMP, NIS, NIS+, OSPF, LDAP, DNS, NFS, DHCP, NAS, FTP, SSH.**
* Experience in Configuring, and administering **Windows Servers**, **Troubleshooting, Monitoring, patching** day-to-day administration of **Windows Servers** and **implementing group policies**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Cloud Environment** | Azure, AWS, OpenStack. |
| **Infrastructure Management Tools** | Terraform, ARM Templates, Cloud Formation |
| **Configuration Management Tools** | Ansible, Chef, Puppet |
| **CI/CD Tools** | Jenkins, Azure DevOps, Hudson, Bamboo |
| **Build Tools** | ANT, MAVEN, GRADLE |
| **Container Tools** | Docker, Kubernetes, Docker Swarm |
| **Version-Control Tools** | Azure Repos, GIT, CVS, SVN, Bit Bucket. |
| **Monitoring Tools** | App Insights, ELK, Cloud watch, Nagios, Splunk, Jira |
| **Scripting** | Python, Bash/Shell, JSON, XML, POWERSHELL, YAML, GROOVY, Ruby. |
| **Application Servers** | WebLogic 9.x/10.x, WebSphere 6.x/7.x/8.x, JBOSS 4.1. |
| **Web Servers** | Apache HTTP, Nginx, Apache TOMCAT |
| **Networking** | DNS, DHCP, SMTP, HTTP, SNMP |
| **Operating Systems** | Linux (RedHat 4/5/6/7), UBUNTU, UNIX, WINDOWS NT/2000/2003/XP/VISTA/7/8/10. |
| **Virtualization Tech** | VMware vSphere ESXi 5.x/4.x, ESX /3.x, VMware Workstation, Oracle Virtual box |

**CERTIFICATIONS:**

|  |
| --- |
| CKA: [Certified Kubernetes Administrator](https://www.youracclaim.com/badges/f89c959b-98b9-4c40-81dc-6de295624f6f/public_url) |
| M [Microsoft Certified: Azure Administrator Associate (AZ-104)](https://www.youracclaim.com/badges/b0bbc0ce-8724-495f-a835-c749198302f7/public_url) |
| [Microsoft Certified: DevOps Engineer Expert](https://www.youracclaim.com/badges/dcb7758f-03b5-4279-89c8-045791ecc13b/public_url) |
| AZ [AZ-400 Designing and Implementing Microsoft DevOps Solutions](https://www.youracclaim.com/badges/302ba947-95aa-4054-82de-4abca1820c90/public_url) |

**EXPERIENCE:**

**Freedom Mortgage-Mount Laurel, NJ Dec2019 - Present**

**Sr Azure DevOps Engineer**

**Key Responsibilities:**

* Provisioning **Azure** resources of different providers Compute**, Network, Service Fabric**, Application gateway using **ARM template** and implemented, maintained **dev, test, Staging,** and **production** environments leveraging infrastructure as code using **Azure ARM templates** (Infrastructure as code, **JSON** / **YAML** config).
* Built an application environment to operate at high availability in different Azure regions by using **CDN, Azure Traffic Manager**, **App Services-Web Apps**, **Active Directory**, Storage Queues, Cognitive Services, Azure Search, Storage Blobs, Redis cache, and **NoSQL** Databases like **MongoDB**.
* Worked on **Azure** **Site** **Recovery** (**ASR**) for migrating on-premises physical servers, VMware into **Azure** environment and as a disaster recovery option worked with creation and maintenance of Azure resources using a combination of **PowerShell Scripts** and **Azure Resource Manager** (**ARM**) templates.
* Implemented **Azure DevOps** services for **Continuous Integration, Continuous Delivery, Deployment,** and monitoring Activities include build issues, deployment issues for multiple releases like maintenance release, enhancement release, bug fixes, emergency releases.
* Implemented **ETL** and data movement solutions for Data Migration using **Azure Data Factory .** Built multiple **Data Lakes** and recreated existing application logic and functionality in the **Azure Data Lake, Data Factory** and **SQL** data warehouse environment**.**
* Provisioned **ARM templates** into **Azure Pipelines** for customized build process in **Azure Kubernetes Service(AKS).** Integrated **Azure DevOps pipelines**, **Azure Boards** with **Microsoft Teams** for Notifications.
* Created **Azure Backup vault** for providing Security to the required Infrastructure using Recovery Points. Implemented **Role Based Access Control(RBAC)** for Managing Access Control for backup & recovery.
* Implemented **Azure** **ExpressRoute** to create Routes for connectivity within on-premises **Azure** cloud for deployments by integrating using **Azure ARM Templates, Azure PowerShell Scripts**.
* Managed **Azure Active Directory** to create users, groups, service principal names and multiple custom roles. Used **AAD** for Single Sign on, Authentication, Authorizations and **Azure Role-Based Access Control(RBAC)** by using **PowerShell Scripts** and used **Azure Service Bus** for communicating within devices in the **Azure** Cloud.
* Created **CI/CD** pipelines for **.Net, node.js, java** applications in **Azure DevOps pipelines** by integrating source codes **GitHub, VSTS** and **Artifacts** and Created deployment areas such as **Testing**, **Quality**, **pre-production**, and **production** environment.
* Implemented backup methodologies for **Azure** Services like **Key Vault, Subscriptions, Storage blobs, App Services** using **Azure PowerShell Scripts**. Created **CI/CD** Pipelines in **Azure DevOps** environments by providing the dependencies to run the pipeline jobs.
* Created YAML pipelines for **CI/CD** by integrating **Maven, JFROG, SonarQube** using Service connections in **Azure DevOps pipelines** and created multistage pipelines for different environments such as **dev, non-prod, production**.
* Implemented a **Kubernetes** cluster using **Azure Kubernetes Service (AKS)** into **Azure DevOps** **YAML** Pipeline by configuring Service connection using **Azure Container Registry(ACR)** credentials**.**
* Designed and implemented **Continuous Integration (CI)** using **Azure DevOps** over multiple environments to facilitate an Agile development process to be automated and repeatable.
* Designed Reusable **PowerShell Scripts** to modify XML configuration files dynamically during release process and used **PowerShell Scripts** for various SharePoint admin jobs like backup, restoration and Solution install/deploy.
* Designed utilities using **.Net,C#** Framework to run **Azure DevOps** release pipeline for agentless job creations. Used Governance model for **DevSecOps** including models for Azure designs and clouds.
* Responsible for implementing containerized based applications on **Azure Kubernetes** by using **Azure Kubernetes service (AKS), Kubernetes Cluster** for cluster management, Virtual Network to deploy agent nodes, **Ingress API Gateway, MySQL** Databases and **Cosmos DB** for stateless storage of external data, and setup reverse proxy **Nginx** in the cluster.
* Managed **Azure Kubernetes Service(AKS)** using **Helm charts**. Created reproducible builds for **Kubernetes applications**, templatize **Kubernetes manifests**, providing a set of configuration parameters to customize the deployment and Managed releases of **Helm packages.**
* Executed **Kubernetes** locally with Minicube, created local clusters and deployable application Containers and Implemented **Microservices** in load balanced, highly available, fault tolerant **Kubernetes** infrastructure.
* Deployed **Kubernetes(AKS)** templates for various applications like **Cassandra, Grafana, Kafka** by setting up **Kubernetes Clusters** for running **microservices** into **production** Environment.
* worked with Scheduling, Deploying, and managing container replicas onto a node cluster using **Kubernetes** and implemented cluster AutoScaler for **AKS.**
* Used **Kubernetes** to deploy, load balance, scale and manage Docker containers with multiple namespace versions. Involved in developing test environment on **Docker** containers and configuring the **Docker** containers using **Kubernetes**.
* Experienced in **Bluegreen** Deployment in the production Environment. Managed **Kubernetes cluster** in the rollback and rollouts methods in the deployment strategies.  Integrated **Istio** and **Helm** packages with Kubernetes clusters for the **Service mesh**.
* Implemented **Hashicorp** **Terraform** to create, change, and improve production infrastructure and maintained versioning infrastructure safely and efficiently.
* Provisioned **Terraform** for high availability of **Azure Infrastructure** & also wrote new plugins to support new functionality in **Azure** ,involved in using **Terraform** to migrate legacy and monolithic systems to **Azure**.
* Implemented largescale environments using **Terraform** by writing various custom **Ansible** **playbooks** for deployment orchestration and developed **Ansible Playbooks** to simplify and automate day-to-day server administration tasks by using **Ansible** **Tower** for deployment.
* Used **Terraform** along with **packer** to create custom machine images and used software configuration tools like **Ansible** to install the required software’s & dependencies once the infrastructure is provisioned.
* Implemented container-based deployments using **Docker** and designed **Docker** **images**, Hubs and registries and installed **Docker** **Registry** for local upload, download of **Docker** **images** and **Docker hub**.
* Performed containerization of individual **micro services** using **Docker** and rolled out to upper environments. Created **Docker images** and deployed **Docker containers** for **Tomcat Servers, Prometheus, Grafana**, and **alert manager**.
* Created **Ansible** **playbooks**, **inventories,** custom playbooks written in **YAML** language, encrypted the data using **Ansible Vault** and maintained role-based access control by using **Ansible Tower**.
* Worked with **Ansible playbooks** for virtual and physical instance provisioning, configuration management, patching and software deployments through automated tools. worked with **Ansible tower** and Integrating **Ansible tower**  to deploy code to different servers.
* Worked with Monitor tools like **Azure log Analytics Workspace** to run log queries with data provided by **Azure Monitor** to sort, filter and analyze data and used **Azure App Insights** to monitor the performance, Availability of web applications to integrate with **DevOps** Processes.
* Written **PowerShell** scripts for archiving and moving of older log files to **Azure Storage** and automation scripts using **python** and Used **Prometheus** for **Kubernetes** integration for service discovery and monitoring of dynamically scheduled services.
* Designed build and managed **the ELK (Elasticsearch, Logstash, and Kibana)** cluster for centralized logging and search functionalities for the Applications.

**Kaiser Permanente – Pleasanton, CA Sep 2018 – Nov 2019**

**Azure Cloud Administrator**

**Key Responsibilities:**

* Provisioned high availability for **IaaS VMs** and **PaaS** role instances for access from other services in the VNet with Azure Internal Load Balancer and experience on **Azure VPN-Point to Site**, Azure Custom security, End security and firewall , also exchanged users to **Azure AD** using Azure AD Connect, Active Directory Federation Service(ADFS)and DirSync tools.
* Configured **Shared Access Signature (SAS)** tokens and Storage Access Policies in **Azure Cloud Infrastructure**. Created, Managed Virtual Machines in Windows **Azure** by setting up communication with the help of Endpoints.
* Configured **Azure Virtual Networks, DHCP address blocks, subnets, Azure Network Settings, DNS settings, security policies** and **routing**. Also, deployed **Azure** IaaS virtual machines and Cloud services (PaaS role instances) into secure Virtual Networks and subnets.
* Implemented security controls for **Azure** services like **Azure Kubernetes Service** **(AKS),Azure Container Registry(ACR),Azure Functions, Cosmos DB, Azure Pipelines, Azure monitor** after critical analysis of infrastructure and integrated to the P&G SIEM solution.
* Performed **POT’s** in Azure implementation and **POC’s** to implement in the Organization and involved in data migration from **AWS** to **Azure** cloud.
* Performed the automation deployments using **AWS** by creating **IAM roles** and used the **code pipeline** plug-in to integrate Jenkins with AWS to create the **EC2 instances** to provision the virtual Servers.
* Migrated on-premises instances to **Azure** Cloud using **ARM** subscription with **Azure site Recovery** and hands-on experience with building and installing servers through **ARM Templates**.
* Configured **Linux** servers with the required tools such as **NPM** installation tools, **CLI** tools, build tools, plugins and then configured Linux machine as a Self-hosted build agent in **Azure DevOps** by using **Ansible Playbooks**.
* Used **AWS Elastic Beanstalk** for deploying, scaling web applications and services developed with **Java, PHP, Node.js, Python** app Deployments using SDK’s and worked on **AWS lambda** with **Amazon kinesis**. Deployed **Ansible** modules to provision and manage **AWS EC2 instances**, **volumes, DNS**, and **S3**.
* Implemented **AWS Lambda** functions to run scripts in response to events in **Amazon Dynamo DB, S3 buckets**, and **HTTP requests** using **Amazon API Gateway**. Also wrote **AWS** **Lambda** functions in python which invokes **AWS Lambda** to perform various analytics on large data sets in **EMR clusters**.
* Integrated **AWS Dynamo DB** using **AWS lambda** to store the values of items, backup the **Dynamo DB** streams and implemented **Terraform** modules for deployment of applications across multiple cloud providers.
* Implemented **Cloud Formation** for **AWS** orchestration and automated the workflow of AWS Cloud at every layer (such as application, network, storage, and monitoring of AWS by writing **CloudFormation** templates.
* Configured **Kubernetes Replication** controllers to allow multiple pods such as **Jenkins master server** in multiple minions. Managed **Kubernetes** charts using **Helm**, managed **Kubernetes** manifest files and created reproducible builds of the **Kubernetes** application.
* Worked on **Docker** with **Kubernetes** to create pods for applications and implemented **Kubernetes** to deploy a web application across a Multi-node **Kubernetes** cluster.
* Worked on setting up a two-step load balancer setup by configuring Load balancer such as **NGINX** for frontend to **Kubernetes Cluster** and to configure “back End” for **Kubernetes** service to proxy traffic to individual pods.
* Configured **VNET Peering** to enable communication between resources across multiple Virtual Networks and configured **NSGs** for two tiers and three tier applications to filter network traffic using **Terraform modules.**
* Configured the **Kubernetes** with **Terraform** provider which is used to interact with resources supported by **Kubernetes** to create several services such as **Config Map**, **Namespace**, **Volume**, **Auto scaler**.
* Worked with **Terraform** key features such as **Infrastructure as code, Execution plans, Resource Graphs, Change Automation**. Converted existing **AWS** infrastructure to serverless architecture (AWS Lambda, Kinesis) deployed via **Terraform** & **AWS** Cloud formation.
* Created **Terraform** templates for provisioning **virtual Private cloud (VPCs), subnets, VM Scale sets, Load balancers**, **NAT** **rules** and used **Terraform** graph to visualize execution plan using the graph command.
* Customized and Designed **Terraform-Jenkins’s**  integration to run infrastructure pipeline jobs automatically.
* Involved in developing test environment on **Docker** containers by configuring **Docker** containers using **Kubernetes**. Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test and deploy the application.
* Worked with **Docker** on multiple cloud providers like **AWS, Azure, GCP** from helping developers build and containerize their applications **(CI/CD)** to deploying either on public or private cloud.
* Configured **Jenkins** AWS Code Deploy plugin to deploy to **AWS**. Installed **Ansible Tower** and wrote playbooks, created roles to rollout configurations to different environments.
* Configured and maintained **Jenkins** to implement the **Continuous Integration** process, integrated the tool with **Gradle, Maven** to schedule the build jobs and automated the deployment on the application servers using the code deploy plugin for **Jenkins** and used **Jira** as ticketing tool.
* Created **Ansible** scripts for **EC2** instances, **Elastic Load balancers** and **S3 buckets,** Planned, developed & maintained Infrastructure as code using **CI/CD** deployments using **Ansible**.
* Created playbooks for **deployments** and bug fixes with **Ansible**. Automated the tasks with **Ansible Playbooks** by using **YAML** functions and migrating the servers with the required configuration changes, testing, and deploying the machines using **Ansible** Commands.
* Responsible for designing and deploying best **SCM** processes and procedures with **Bitbucket**, **GitHub**.
* Used **Splunk** for log analyzing and improving the performance of servers. Wrote several custom **Splunk** queries for monitoring and alerting and written **Python** scripts to automate security group creation and management from state files versioned **GitHub.**

**CONSENSUS – DALLAS, TX June 2017- Aug 2018**

**AWS DevOps Engineer**

**Key Responsibilities:**

* Configured AWS Identity and Access Management (IAM) Groups and Users for improved login authentication. Created AWS RDS Aurora DB cluster and connected to the database through an Amazon RDS Aurora DB Instance using the Amazon RDS Console.
* Involved in designing and deploying applications utilizing all the AWS stack including Route53, Dynamo DB, SNS, SQS, LAMBDA, Code Deploy, focusing on high-availability, fault tolerance and auto-scaling in AWS cloud formation Templates.
* Created AWS launch configuration based on customized Amazon Machine Image (AMI) and used this launch to configure Auto scaling groups and created AWS Route53 routing traffic between different AWS regions.
* Extensively worked on AWS tasks such as migrating applications to Cloud, importing volumes, optimizing EC2, configuring and migrating to RDS, S3 storage, creating security groups, Auto-scaling, Elastic Load balancers (ELBs) and DNS.
* Configured and maintained the AWS Lambda function to trigger when there is a Jenkins build kicked off, which internally gets stored on AWS S3 bucket for everybody to access. Created Route53 to route traffic between different regions. Worked with Security groups & Network ACLs.
* Leveraged AWS cloud services such as EC2, auto-scaling and VPC to build secure, highly scalable, and flexible systems that handled expected and unexpected load bursts.
* Created monitors, alarms, and notifications for EC2 hosts using CloudWatch Monitored System Performance. Managed Disk Space LVM (Logical Volume Manger) and performed system Backup Recovery.
* Migrated and automated cloud deployments using API’s, Puppet, PYTHON (Boto & Fabric) and AWS Cloud Formation Templates.
* Designed Terraform templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates and migration from traditional to cloud environment.
* Worked on Deployment automation of all the micro-services to pull the image from the private Docker registry and deploy to Docker swarm cluster using Ansible. Configured Docker containers into Kubernetes EKS clusters and created Docker files for different environments using Kubernetes clusters via Ansible playbooks.
* Responsible for administration of Container Orchestration technology, AWS Elastic Kubernetes service clusters and building deployment pipelines using package manager HELM through Jenkins.
* Used GIT as a source code management tool for creating local repo, cloning the repo, adding, committing, pushing the changes in the local repo, saving changes for later (Stash), recovering files, branching, creating tags
* Configured GIT to schedule jobs using POLL SCM option and integrated to automate the code checkout process. Wrote JUnit test cases for unit, integration, and functional tests, run automatically for the builds triggered by each push to GIT.
* Monitoring operational and performance metrics of AWS resources and web applications using CloudWatch and Nagios.
* Scripted in multiple languages on UNIX, LINUX, Bash, Shell, Perl script to develop applications in python for numerous platforms.
* Administered Linux servers for several functions including managing Apache Tomcat server, mail servers, and Oracle, MongoDB, MySQL databases in both development and production.

**Multiplier AI Solutions -Hyderabad, INDIA Jan 2016 – May 2017**

**Build and Release Engineer**

**Key Responsibilities:**

* Written **Jenkins Pipeline Groovy Scripts** for Continuous integration build workflows and used Jenkins for uploading **Artifacts** into **Nexus Repository**.
* Setup **Jenkins** server and build jobs to provide Continuous Automated builds based on polling the **Git** source control system during day and periodic scheduled builds overnight to support development needs using **Jenkins**, **Git** and **Maven.**
* Written **Ansible** Playbooks for zero-downtime installation, upgrading and uninstalling of various processes. Automate Datadog Integrations through **Ansible Scripts**for **QA**, **Regression** and **Prod** environments.
* Involved in maintaining **Chef cookbook** and recipes to automate the deployment process and to integrating **Chef cookbooks** into **Jenkins** jobs for a continuous delivery framework.
* Good command in writing **ANT** scripts for making all the files local to the server.
* Performance tuning and management for **Linux** server and working with the application/database team to resolve issues.
* Creation of file systems using **Red Hat** volume manager and performing the health check on regular basis for all Linux servers.
* Management of **User-accounts, Group-accounts, File Systems, Password policies, File/Directory Disk management, Permissions, Ownership** and ACL's. Monitoring **Virtual memory**, adding additional Swap space as needed.
* Managed Disks and File systems using **LVM** on **Linux, kernel patching**. Installation and configuration of **SSH service** for remote clients.
* Worked in development, testing, and production environment using **SQL, PL/SQL** procedure, **python, Ruby,** **PowerShell,** and shell scripts and managed to host the servers like **Tomcat, Apache HTTP** and **NGINX**

**Ahex Technologies – Hyderabad, INDIA June 2014 – Dec 2015**

**Linux Administrator**

**Key Responsibilities:**

* Responsible for installation (using Kickstart), configuration of **Red Hat Enterprise Linux 4.x/5.x** at other data center over the network.
* Administered and maintained **Red Hat 4.x/5.x,** troubleshoot hardware, operating system, applications & network problems, and performance issues.
* Worked on **UNIX**, **Red** **hat** **Linux** ES3.0, Linux Desktop, SUSE Linux Enterprise Server 9.0, and AIX 5.2/5.1/4.3 and Ubuntu.
* Developed, customized and build RPMs on Linux for deployment on various servers through software Development Life Cycle.
* Worked on creating, maintaining, and troubleshooting LVM and file management. Administration of repetitive jobs using **CRON** scheduling and using **Bash** scripts to accomplish the tasks on multiple servers.
* Designed **Bash** and **Perl** Scripts to automate application and system management activities to provide functionalities like application startup and shutdown, monitored systems, applications health, and website management
* Installation/Administration of **TCP/IP, NIS/NIS+, NFS, DNS, DHCP, NTP,** **Auto mounts**, **Send mail** and Print servers as per the client's requirement.

**Concentrix – Hyderabad, INDIA Nov 2013-May 2014**

**ASP.NET Developer**

**Key Responsibilities:**

* Hands on technology experience of designing and developing software applications with**Microsoft .NET Framework 1.0/1.1/2.0/3.0/3.5 using C#, ASP.NET and ADO.Net**.
* Participated in Requirement Analysis study and involved in requirements gathering
* Experience using tools such as **Visual Studio.Net 2003/2005/2008 and VPN**
* Involved in **Scheduling** **Tasks**, **Monitoring** **Tasks**, creating alarms and Deploying Load balancing, implementing Network security. **Troubleshooting** the issues related to Servers, Local Services, Data Centres and Server Configuration for Microsoft Windows Systems.
* **Followed Agile Methodologies and Test-Driven Development, pair programming and analyzed business requirements to evaluate the design of the application**
* **Worked with functional teams to define and implement migration strategies from legacy systems to new architectures and technologies**