Deepika.D

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PROFESSIONAL SUMMARY

9+ years of professional IT experience as **Cloud/DevOps** Engineer, **Build and Release** Engineer and **Linux Administrator** with expertise in **DevOps** Implementation, **Cloud Computing** with cloud platforms like **AWS**, **Azure**, **OpenStack**, **GCP** and **Software Configuration Management (SCM)** in **Agile**, **Scrum** and **Waterfall** methodologies.

- Expertise in **DevOps** which includes platform and technologies like **Git**, **GitHub**, **Subversion**, **Ant, Maven, Jenkins, Bamboo, Ansible, Puppet, Chef, Docker, Kubernetes, Tomcat, Java, JBoss, and Unix/Linux** etc.
- 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.**
- Hands on experience in **Azure cloud services**, **Azure storage**, **Azure active directory** and **Azure Service Bus**. Managing Client's Microsoft Azure based **PaaS** and **IAAS** environment. Configured and deployed log analytics for monitoring and change tracking.
- Created **CI/CD** pipelines for .NET core, Java apps in **Azure DevOps** by integrating source codes **GitHub, Azure Repos (VSTS), and artifacts**. Created deployment areas such as testing, **pre-production** and production environment in **Kubernetes cluster.**
- Worked on the **PowerShell** Script to automate the Windows patching and created the release in **Azure DevOps** pipeline.
- Hands on experience in AWS provisioning and good knowledge of **AWS services** like **EC2, S3, Glacier, ELB, RDS, Redshift, IAM, Route 53, VPC, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups**.
- Good exposure in delivering **architecture designs** and solutions for **public**, **private** and **hybrid** clouds covering the cloud architecture **tiers** and portfolios of **cloud services**.
- Expertise in managing security groups on AWS, focusing on **high-availability, fault tolerance, and auto-scaling** using **Terraform** templates, along with Continuous Integration and Continuous Deployment with **AWS Lambda** and **AWS Code Pipeline**.
- Extensive experience with **architecture**, **component** and **code-level** reviews and proficient knowledge in **Application Security** and **Threat Modelling**.
- Expertise in Clusters using **Kubernetes** and worked on creating many **pods**, replication controllers, services, deployments, labels, health checks. Proficient knowledge with **Mesos** providing the fine-grained resource allocations for **pods** across **nodes** in a cluster.
- Managed **Kubernetes** charts using **Helm**. Created reproducible builds of the Kubernetes applications, managed **Kubernetes manifest files** and managed releases of **Helm packages.**
- Experience with **PCF, OpenShift, Kubernetes** architecture and design, troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
- Expertise with **Docker images** using a **Docker file**, worked on **container snapshots**, removing Images and managing **Docker volumes**, also implemented **Orchestration** of **Docker images** and Containers using **Kubernetes** by creating master and node.
- Hands on experience in writing **Terraform API modules** to manage infrastructure, for automatic creation of **RDS** instances, **VPCs, Autoscaling groups, Load balancers, SQS, S3 buckets**.
- Worked with **Terraform** key features such as **Infrastructure** as code, Execution plans, **Resource Graphs**, Change **Automation**

- Architected **Jenkins** build pipelines in various Linux environments like **RHEL**, **Centos** and **Windows**.
- Expertise in all areas of **Jenkins** like **plug-in** management, securing Jenkins, performance issues, analytics, **scaling** Jenkins, integrated the **code analysis** and **test phases**.
- Created **Jenkins jobs** and distributed load on **Jenkins server** by configuring **Jenkins nodes**, which will enable parallel builds. Performed automation of **CI/CD pipeline** in private cloud using **Jenkins** shared libraries and multibranch pipeline and automated the static code analysis through **SonarQube** in **Jenkins pipeline** for checking code quality.
- Experience in working on source code management tools like **SVN**, **GIT (GitHub),** Creating **GIT** repositories with specified branching strategies. Worked with tracking tools like **JIRA.**
- Expertise in setting up various **Jenkins** jobs for build and test automation and created Branches, Labels and performed Merges in **GitLab**.
- Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible playbooks**, **Chef Cookbooks** and has Integrated **Ansible** with **Jenkins**.
- Composed **Chef Cookbooks** and **Recipes** to provision several pre-prod environments consisting of **Cassandra DB** installations, WebLogic domain creations and proprietary **Middleware** installations.
- Strong in **Puppet modules** to automate the installation and configuration for a broad range of services and wrote **Puppet code** to provision infrastructure including **LAMP stacks**, **Oracle middleware**, **Artifactory,** and **Docker**.
- Monitored the servers and applications' health status using **Nagios** and **Splunk**, responded to several alerts, and configured threshold settings.
- Administered **Linux server** for several functions including managing **Apache/Tomcat** server, mail server, and databases in both **development** and **production**.
- Associated in **deploy Splunk** across the **UNIX** and Windows environment. Involved in setting up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for the **JIRA bug/issue tracker** and **SonarQube** for automated code review.

TECHNICAL SKILLS

Cloud Services	Microsoft Azure, AWS
Scripting Languages	Shell/Bash, Python, JavaScript, PowerShell, JSON, YAML
Build Tools	MAVEN, ANT, GRADLE
Configuration Management Tools	Chef, Puppet, Ansible
CI/CD Tools	Jenkins, Bamboo, Hudson
Container Tools	Docker, Kubernetes
Monitoring Tools	ELK, Cloud Watch, Cloud Trial, Splunk, Nagios, Log Analytics
Version Control Tools	GIT, CVS, SVN, Bit Bucket, Azure Repos
Operating Systems	Windows, Unix, RHEL, CentOS, Ubuntu
Networking	HTTP, SNMP, SMTP, DNS, DHCP, NFS
Databases	Oracle, MySQL, MongoDB, CassandraDB, DynamoDB
Web/Application Servers	Tomcat, Apache HTTP Server, Nginx, WebLogic, JBOSS
Virtualization Technologies	VMWare vSphere ESX/ESXi, VMWare Workstation, Virtual box
Other Tools	Vagrant, Gerrit, Nexus, SonarQube

PROFESSIONAL EXPERIENCE

IGT (International Game and Technology) – Providence, Rhode Island   **March 2023 - present**
Senior Cloud Devops Engineer

- Involved in **migration** of **on-premises Sales Wizard and Retailer Wizard systems into the cloud**.
- Worked on setting up **QA and Dev environments** of the Sales wizard and Retailer wizard from scratch by referring the existing environments. Documented the necessary **changes** and also created the **wiki** pages about the workflow.
- Migrated applications of various **state's lottery systems** from on-prem to Azure cloud.
- Worked on **terraform** modules to create the **private end points** for **SQL managed instances** in Azure.
- Setup the **terraform modules** to pass different storage and vcore values for different time zone SQL managed instances. Also, imported resources from Azure using **terragrunt.**
- Created various **demo systems** in the non-production environment in prep for the **migration** to the cloud. The systems are for **state lotteries** around the country and retailers.
- Worked on creating **ansible playbook** to disable the robot indexing by adding a response header for all the traffic driving to our websites.
- Pushes the code changes into the **development**, test, and **production** environments in scheduled manner.
- Created automation account **runbooks** to schedule start/stop of the **Virtual Machines** present in production, non-production environments in Azure.
- Using **Azure DevOps** pipelines to **automate** the **applications** and make changes in **front-end** and **back-end** systems.
- Worked on **AWS Simple Email Service** and added it to the runbooks in azure to send required email notifications.
- Created new tenants for various state customers in all the environments by updating the **terraform** modules and triggering the **Azure Devops pipelines**.
- Debugged and documented the **errors** of the azure devops pipelines while creating a completely new setup of non-production environments in **Azure**.
- Created **ansible playbooks** to update and **deploy applications** on sales wizard and retailer wizard environments.
- Worked on the sales wizard and retailer wizard environments for SQLMI **extra time zone** creations and **resource allocations.**
- **Ansible** installation and maintenance for infrastructure automation. Developed **playbooks Python** and **Bash** scripts for **build** and **deployment** and configuration **release** process.
- Modified the existing terraform modules to enable the **cross restore region** in all the environments in Azure.
- Created automation account **runbooks** to schedule start/stop of the **SQL managed instances and the databases** present in production, non-production environments in **Azure**.
- Developed **Azure function apps** as **API** services to communicate **DB2** and **Azure Logic apps** to implement workflows.
- Used **Terraform templates** to deploy the infrastructure using **Chef** for different environments and automated several **AWS** services like **ELB, CloudFront, SQL-NOSQL Databases, S3, and Database security.**
- Worked on creating **ansible** playbooks to use azure devops teams for determining user accounts on the **virtual machines**.
- Worked on updating the **state customer** portals front end **web application** versions for production and non-production environments to the latest using **maven** repositories and ran the **devops pipelines** to trigger the change.
- Built terraform code support for **multiple SQL instances** based on time zones.
- Created **terraform** modules for retrieving the state of the **backup policy** in azure **recovery service vaults**.
- Adjusted the **threshold alert** values for SQL managed instances using terraform modules.
- Working on ansible playbooks to make the **application updates** on different sales and retailer wizards.
- Worked on **terraform and terragrunt** modules to create new **key vaults** in Azure and adjust the key types. Used **WSL** as the working environment to push the required terraform code changes.
- Created terraform modules and **PowerShell scripts** to perform the **key rotation** on the key vaults in azure and also to update the **key vault** SKU settings.
- Updated the **application gateway** timeout settings for the **health probes** in all the environments using terraform code.
- Created **PowerShell** script to update the **retention policy** values of the SQLMI databases in Azure portal.

Environment: Azure, Azure Devops, AWS, Ansible, Terraform, Terragrunt, PowerShell, Bash, Python, Linux, Windows, Maven, GIT, JIRA, WSL.

AXA Equitable - Charlotte, NC   May 2021 – March 2023
Solutions Architect

- Involved in **migration** of virtual machines from one **recovery service vault** to another on the **Azure** cloud using Azure automation **runbooks**.
- Hands on experience in creating ARM templates and also migrating the on-premises resources to Azure with **Azure backups** and **Azure Site Recovery**.
- Worked on **PowerShell** scripts for adding and removing the backup to the **Azure service vaults**
- Extensively worked on creating end to end **infrastructure** provisioning pipelines. Used PowerShell scripting, **yaml** files, for provisioning various resources.
- Assist in the identification, development, and evolution of **KPIs**
- Provisioned various **Linux** and **Windows** servers of latest versions on the Azure cloud using **Azure Devops** pipelines with the help of **ARM templates.** Created **change control requests** and documents them.
- Used **Azure DevOps** services like **Azure Repos, Azure Boards, Azure Test Plans, Azure Artifacts** to plan work, collaborate on code development, and build and deploy applications.
- Created **Azure automation runbooks** to stop the virtual machines in various subscriptions when not in use and scheduling them on required timeframe.
- Implemented Copy activity, Custom **Azure Data Factory** Pipeline Activities for On-cloud ETL processing.
- Worked on Azure runbooks **invoking** concept where a runbook can be called from another runbook.
- Extensive experience in Azure backup vaults creation, **Azure key vaults** set up and also tagging the resources.
- Synced up the entire **Prod branch** of the pipeline with the **Dev branch** in the **Devops pipelines.** Updated the **Azure Devops** provisioning pipelines by fixing the tasks in various stages and managing the folders in the associated build server.
- Configured the **Ansible** playbooks with **Ansible Tower** so that other users can run them with just a push of a button.
- Created **ansible** playbooks for automating the infrastructure and also deployed them on Linux servers to check for the existing **service agents** like **Splunk Forwarder, CrowdStrike, Symantec EPP, Rapid7** on all the virtual machines and collected the required ansible **deployment output** into **csv** files using the playbooks.
- Written **PowerShell scripts** to check the status of the mentioned service agents on all the **Windows** servers and appending the output into a csv file.
- Worked on **disk allocation**, increasing the **disk spaces** for some of the servers while migration and re-started the **waagent**.
- Fixed various issues related to **DNS suffix**, **domain groups** on both Linux and Windows servers.
- Written an **ansible playbook** to track the **OMI vulnerabilities** on the open ports and also to disable one of the Azure OMI ports. Deployed the playbook on all the subscriptions successfully.
- Extensive experience in administration, troubleshooting, backup, recovery and upgrades of **RHEL Linux** servers.
- Experience managing **Azure Data Lakes** (ADLS) and Data Lake Analytics and an understanding of how to integrate with other Azure Services. Knowledge of USQL and how it can be used for **data transformation** as part of a cloud data integration strategy.
- Written various **Azure Resource graph queries** to collect the required information of various resources in the **Azure**.
- Worked on PowerShell script for turning on and off the **toggling settings** in the Azure applications.
- Worked on establishing the connection between the **ansible server** to the **mainframe server** using SSH and deployed playbooks onto **mainframe server**, automating the infrastructure of the mainframe work.
- Used **Json queries** in the **yaml** playbooks to print the outputs of particular variables.
- Involved in monthly **patching** of all the **weblogic, tomcat and oracle** servers.
- Worked on pivoting from **premium SSDs** to **standard SSDs** in one of the Azure subscriptions for the VDI virtual machines using PowerShell script.
- Created various **DNS** host A records for the servers by deploying the **terraform template**.
- Updated the required infrastructure like ansible playbooks, ARM templates, scripting files, service agent packages to support the **latest RHEL 8.X** version. Earlier we used **RHEL 7.x** images for all the Linux servers.

- Scanned all the **Citrix VDDs** to check for the type of disks in the associated subscription using Azure automation runbook.
- By using **Azure DMS** moved databases from third-party products and other open-source management systems like **MySQL** and **Oracle**.
- Worked with **Java** remediation team and created a **bash script** that scans the Linux **mount points** to output java versions and their paths. This script is deployed via ansible playbook on all the servers.
- Deployed the java application into web application servers like **WebLogic and WebSphere**. Involved in the installation and configuration of **WebLogic** as a web server.
- Performed monthly scanning of service agents on all the servers using **Azure runbooks** and installed the missing agents, submitting the result report to dedicated team.
- Established connection for the Devops pipelines with ansible server and copied all the server provisioning **log files** into the ansible server.
- Having good experience in daily database maintenance and administrative tasks like **Space issues**, **transaction log file size growth**, connectivity issues and regular monitoring of SQL **Server error logs** and **Windows event viewer.**
- In-depth knowledge of technical implementation of **Change Management**, Incident Management, **Service Catalog**, Reporting.
- Deployed ansible playbooks on servers to create required **CyberArk** Ids. Used **IBM modules** for ansible customizations.
- Worked with **WebSphere** server patching team to apply the fix pack on required servers.
- Worked on **Kusto queries** to collect the **logs** from the Azure runbooks.

Environment: Azure, Azure Devops, Ansible, Terraform, PowerShell, Bash, Python, Linux, Windows, Apache Tomcat, WebLogic, Splunk, GIT.

D2Sol - Morrisville, NC   **August 2019 – May 2021**
Sr. Azure DevOps Engineer

Responsibilities:

- Implemented **Azure** Active Directory for single sign-on access to thousands of cloud SaaS applications like Office 365, Dropbox. Worked as cloud Engineer, involved in configuration for **Web apps/Function apps, V-net integration, HCM, Application gateway, App Insights, Active directory, Azure Key Vault, Encryption and Security on Azure.**
- Used **Azure Terraform** to deploy the **AZURE** infrastructure, which is necessary to create development, test, and production environments for a software development project.
- Configured **RBAC** and **Azure Monitor** for adding security in Azure cloud and **network security groups** for subnet and **NIC** level for azure **virtual machines**.
- Maintained Windows **Azure** Services like **PaaS**, **IaaS** and worked on storages like **Blob** (Page and Block), SQL Azure. Well experienced in deployment & configuration management and **Virtualization**.
- Managed Azure Infrastructure **Azure Web Roles, Worker Roles, SQL Azure, Azure Storage, Azure AD Licenses, Office365**. Virtual Machine Backup and Recover from a **Recovery Services Vault** using Azure PowerShell.
- Experienced in writing **AZURE Resource Manager** (ARM) Template to deploy multiple resources and extensive experience in designing custom build steps using **PowerShell** scripts and **ARM templates** to automate the provisioning and deployment process.
- Configured **Azure Virtual Networks**, **subnets, DHCP address blocks, 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.**
- **Azure Network Configuration** - Created resource groups using resource manager which allow to see cost/billing and monitoring information for resources within a resource group and manage access to those resources as a set for individual customer. Also used **Azure log analytics workspace** to store, query data collected from various resources monitored.

- Created and maintained various **Azure DevOps** related tools for the team such as provisioning scripts, deployment tools and staged virtual environments using **Docker**.
- Working on **Azure services** and changing from **Jira** to **Azure DevOps**, **GitHub** to **Azure DevOps** along with Experience in configuring and using PaaS offerings (like **Azure Database services, Azure Kubernetes, Azure Containers, DNS, Application gateway rerouting, Application Insights, Azure Container Monitors).**
- Acted as build and release engineer, deployed the services by **VSTS (Azure DevOps)**. Created and Maintained pipelines to manage the **IAC** for all the applications.
- Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of **Azure Data Factory**, T-SQL, Spark SQL and U-SQL Azure Data Lake Analytics. Data Ingestion to one or more Azure Services - (**Azure Data Lake, Azure Storage, Azure SQL, Azure DW**) and processing the data in In **Azure Databricks.**
- Have experience with **security** testing at scale by building and implementing **static** and **dynamic** analysis tools, **open source** scanning tools and integrating security into a **CI/CD** workflow.
- Extensively used **Kubernetes** to deploy, load balance, scale and manage docker containers with multiple name-spaced versions.
- Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and managed releases of Helm packages. Good knowledge in Developing CI/CD system with Jenkins on **Kubernetes** container environment, utilizing **Kubernetes** and Docker for the runtime environment for the CI/CD system to build and test and deploy.
- Integrated **Docker** container orchestration framework using **Kubernetes** by creating pods, **Config Maps** and deployments. Deployed **Kafka** in **Kubernetes** using **Helm Charts**.
- Setting up **Kubernetes Clusters** for running microservices and Pushed microservices into production with **Kubernetes** backed infrastructure. Development of automation of **Kubernetes Clusters** via **Playbooks** in **Ansible**.
- Experienced in Pivotal Container Service to produce production-grade **Kubernetes** that allow enterprises to reliably deploy and run containerized workloads across **private and public clouds**.
- Installed **Docker** in local machine to test **Serverless** Applications Locally Using SAM Local.
- Extensively worked on **Terraform** modules that had version conflicts to utilize during deployments to enable more control or missing capabilities. Managed different **infrastructure resources**, like physical machines, **VMs** and **Docker** containers using **Terraform**.
- 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**.
- Created **Ansible playbooks** to automatically install packages from a **repository**, to change the configuration of remotely configured machines and to deploy new builds.
- Created job template on **Ansible tower** which creates the users on servers by using host name and user details as variables.
- Replaced **Splunk** logging and analytics with an automated **ELK** cluster, increasing data capture capacity and reducing costs.
- Planned and implemented **Disaster Recovery** solutions, data archiving, backup/recovery strategies, Data/Table partitioning, online Indexing, rebuild/reorg indexes, Performance Analysis and optimization of **SQL server**.
- Deployed the java application into web application servers like **Apache Tomcat**. Involved in the installation and configuration of **NIX** as a web server.

Environment: Azure, Chef, Ansible, Shell, Python, Linux, Jira, Jenkins, Apache Tomcat, Docker, Virtualization, Kubernetes, NGINX, Splunk, Nagios, Terraform, GIT, SVN, Bit Bucket, Maven, ELK, SQL Server.

Fannie Mae - Midtown Center, D.C   **April 2018 – July 2019**

Azure Cloud Engineer

Responsibilities:

- Experienced in migrating On-premises **Instances** or **Azure Classic Instances** to **Azure ARM** subscription with **Azure site Recovery** and also experienced on creating **Azure VM, Cloud Services** and **Storages** by using Azure **Power-Shell** Script.
- Expertise in migrations and automation of Linux based servers (**CentOS, RHEL, Ubuntu**) and windows-based servers (**2008R2, 2012R2**) from on-premises to cloud platforms such as **AWS and AZURE**.
- Used **Azure BLOB** to access required files and **Azure Storage Queues** to communicate between related processes and used Cloud Foundry **Command Line Interface** (CLI) to deploy and manage applications on to Pivotal Cloud Foundry **PCF**.
- Managed migrating **SQLServer** databases to **SQL Azure Database** using **SQL Azure Migration Wizard** and used **Python API** to upload agent **logs** into **Azure blob storage**.
- **Azure** Automation through **Runbooks** Creation, Migration of existing scripts, Authorizing, Configuring, Scheduling and involved in administrative tasks that include Build, Design, Deploy of **Azure** environment.
- Experience in designing, configuring, and deploying solutions on Microsoft **Azure** using (Azure Resource Manager) **ARM Templates**, **AZURE PowerShell Module** and, **Azure CLI** focusing on high-availability and auto-scaling.
- Implemented a CI/CD pipeline using **Azure DevOps (VSTS, TFS)** in both cloud and on-premises with **GIT, MS Build, Docker, Maven along with Jenkins plugins.**
- Used **Azure Boards** service to track ideas at every development stage and aligned with all code changes linked directly to work items.
- Used **AWS Beanstal**k for deploying and scaling single tier web applications and services developed with Java, PHP, Node.js, Python, Ruby and **Docker** on familiar servers like Apache.
- Designed **AWS Cloud Formation** templates to create custom sized **VPC, Subnets, NAT** to ensure successful deployment of Web applications and database templates. Strong experience in Enterprise Security Domain. In-depth knowledge of **LDAP and Identity & Access management products.**
- Used **Vagrant** and **Docker** based container deployments to create self-environments for dev teams and managed the clusters using **Kubernetes**.
- Evaluated **Kubernetes** for Docker container orchestration and Integrated Docker container orchestration framework using **Kubernetes** by creating **pods**, **Config-Maps**, **deployments**.
- Designed **Kubernetes** cluster using **AWS-Kops (EKS)** and configuring and deploy the Kubernetes dashboard to access the cluster via its web-based user interface.
- Developed **Kubernetes** templates for various applications like **Cassandra**, **Grafana**, **Kafka** and setting up Kubernetes Clusters for running micro services and pushed micro services into production with Kubernetes backed Infrastructure.
- Created **Containers** in **Docker** and **automated** applications and **MySQL** container **deployment** in Docker using **Python**.
- Wrote **Terraform scripts** to automate AWS services which include Web servers, **ELB**, **Cloud Front** distribution, Database, **EC2**, database **security groups** and **S3 bucket**.
- Used **Terraform** to Setup infrastructure in **PCF** and **Azure** Environments. Converted existing **Terraform modules** that had version conflicts to utilize cloud formation during **Terraform deployments** to enable more control or missing capabilities.
- Researched and implemented an **Agile workflow** for **Continuous Integration** (CI) and testing of applications using **Jenkins**. Administered and Engineered **Jenkins** to manage weekly build. Worked with **Jenkins API's** to know various things like build status, count of builds, Git commit version used by Jenkins builds etc.
- Implemented **CI/CD** pipeline using **Jenkins** and extensively worked for **End-to-End automation** for all build and deployments. Built scripts using **Maven** in **Jenkins** and **Sonar** to move from one environment to other environments. Deployed Applications into **PROD** & **Pre-Prod** environments with various Application server technologies like **WebLogic**, **JBOSS** & **Apache Tomcat**.
- Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible playbooks** and has Integrated **Ansible** with **Jenkins**.

- Work on integrating **GIT** into the continuous Integration (CI) environment along with **Jenkins** and **Subversion**.
- **Troubleshooted Splunk feed issues** and data ingestion for remote locations, also troubleshooted infrastructure and start up issues on various application server's product line.
- Developed automation scripting in **Python** using **Chef** to deploy & manage **Java .Net** applications across **Linux/Windows** servers.
- Managed builds and made necessary changes to **Ant build scripts** for **Java/ Web-sphere** based applications.

*Environment***:** Azure, AWS, Terraform, Jenkins, Kubernetes, Docker, GIT, Vagrant, Puppet, PowerShell, Ansible, Splunk, Python, Java, MySQL, PCF, RHEL, CentOS, Ubuntu.

SP Tech - Atlanta, GA   **December 2016 – March 2018**
AWS Infrastructure Engineer

Responsibilities:

- Worked with Amazon AWS Cloud Services, **(EC2, S3, EBS, ELB, Cloud Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, Cloud Formation, Route53)** and managing security groups on AWS, focusing on **high-availability, fault tolerance, and auto-scaling.**
- Involved in **Architect**, **build** and maintain highly available secure multi-zone **AWS** cloud infrastructure utilizing **Chef** with **AWS cloud formation** and **Jenkins** for **Continuous Integration.**
- Design roles and groups for users and resources using AWS **Identity Access Management** (IAM) and implement **Multi-Factor Authentication** (MFA) on externally available servers and on AWS Console, Monitoring and alerting leveraging **Cloud Watch** and **Cloud Trail.**
- Built and configured a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including **Virtual Private Cloud** (VPC), Public and Private **Subnets, Security Groups, Route Tables, Elastic Load Balancer.**
- Created trails in **Cloud Trail** to view the user activities done across **AWS** infrastructure and stored the events into a **S3 bucket**.
- Used **AWS Lambda** functions to execute code in response to **triggers** such as changes in data, shifts in system state, or actions by users. Lambda can be triggered by services such as **S3, DynamoDB, Kinesis, SNS, and CloudWatch.**
- Setting up Docker environment in Linux servers and Creating **Docker images** and pushing them to private Repo.
- Installed **Docker Trusted Registry** for upload/download images and worked on **Docker** compose & Docker machine.
- Used **Terraform templates** to deploy the infrastructure using **Chef** for different environments and automated several **AWS** services like **ELB, CloudFront, SQL-NOSQL Databases, S3, and Database security.**
- Expertise in **Terraform** for creating stacks of **VPCs, ELBs, Security groups, SQS** queues, **S3** buckets in AWS and updated the Terraform Scripts based on the requirement on regular basis.
- Architected **Jenkins build pipelines** in various Linux environments like **RHEL, Centos** and **Windows** to build and deploy **Java applications**.
- Used **Jenkins API** to query the **Jenkins** server state and change configuration and automate jobs on nodes.
- Experience working with version control systems like **Subversion**, GIT and used Source code management tools **GitHub**, **GitLab**, **Bitbucket** including command line applications
- Configured **GIT** with Jenkins and schedule jobs using **POLL SCM**, setting up and troubleshooting on-demand builds for all patches and Hot-fixes of all releases.
- Done integration of **GIT** with **Jenkins** to automate the code check-out process with the help of **Jenkins DSL Plugin.**
- Performed Cloning, modifying, updating the **GIT** repos and push back to the **Bitbucket**. Imported and managed multiple corporate applications into **GIT** repositories and give access rights to the authorized developers.
- Defined and managed release planning and branching strategy of **GIT** servers. Also, helped educate engineering community on the appropriate use of **GIT**. Implemented auto environment creation using **Ansible** and **Azure**.
- Worked on **Ansible playbooks**, which were written in **YAML** and maintain different **Ansible** roles.
- Configured **Grafana** and Influx DB and created dashboards on Grafana to show graphs of environment performance

- Experience in Package management using RPM and YUM in Red Hat Linux and experience in file systems like **LVM**, **SVM** and troubleshooting **disk space** issues.
- Responsible for authoring and editing **Python** scripts for automation purpose which enabled the QA testers to perform testing with a more reliable and faster performance.

Environment: Amazon Web Services (AWS), Azure, Runbooks, Chef, Jenkins, Splunk, Ansible, Docker, Terraform, GIT, Bitbucket, Ansible, YAML, YUM, Grafana, Python.

CGI - Pittsburgh, PA   **July 2015 – November 2016**
Build and Release Engineer
Responsibilities:

- Providing **continuous improvement** to agile software development teams by working with **Jenkins** under the **CI/CD pipeline**. Integrated **Ant, Nexus, Jenkins**, SVN, Confluence and **JIRA**.
- Implemented **CI/CD** web hooks & workflows around **Jenkins** to automate the dev, test, deploy workflow around **Puppet** codebase. Installed and Managed **Jenkins and Nexus** for CI and **Sharing Artifacts** respectively within the company.
- Worked on configuring the **Jenkins** to use MetaCase Software to build Java code and also to do the whole C.I process on the **java** code generated by MetaCase.
- Experience in Designing, Installing and Implementing **Ansible** configuration management system and in writing **playbooks** for Ansible and deploying applications.
- Developed **Chef Recipes** in ruby to configure, deploy and maintain software components of existing and cloud infrastructure and **bootstrapped chef client nodes**.
- Configured **bamboo** Remote agent on Windows Platform to perform .Net Applications Builds. Performed Remote Deployments from **Bamboo** Remote Agent to different **IIS** Environments using **MS** Deploy.
- Perform Deployment of Release to various **QA** & **UAT** in **Linux** environments. Scripting in multiple languages on **UNIX**, **LINUX** and **Windows** – **Bash**, **Shell script** etc.
- Implementing a **Continuous Delivery** framework using **Jenkins** in **Linux** environment.
- Building & configuring **Red Hat** Linux systems over the network, implementing automated tasks through **Crontab**, resolving tickets according to the priority basis.
- Administered **Red Hat** Linux servers for several functions including managing **Apache/Tomcat server**, Mail server, **MySQL** database and firewalls in both development and production.
- Responsible for configuring and maintaining **Squid** server in **Linux**. Deployed **Java** applications into **Apache Tomcat** Application Servers.
- Used Test driven approach for developing the application and implemented the unit tests using **Python** Unit test framework.

Environment: Linux, Jenkins, ANT, Nexus, JIRA, Puppet, Ansible, Chef, Bamboo, Unix, RHEL, Tomcat Server, MySQL, Squid, Java, Python.

Tech Mahindra - Visakhapatnam, India   **May 2014 – June 2015**
Linux Administrator
Responsibilities:

- Installed/configured/managed/Administrated of all **UNIX** servers includes the design and selection of relevant hardware to support the installation/upgrades of **Linux**, Windows and **Solaris**8/9/10(SPARC & X86 hardware) operating systems.
- Performed hardware, operating system, security and application **updates/patches** on these systems as well as operating system hardening based in industry   standards.

- Installing, Configuring and deploying of VMware **RHEL** hosts using **VMware ESX Server, VI, Xen.**
- Used Solaris Volume Manager to mirror the root disks and **Logical Volume Manage**r to create physical volumes, **logical volumes** and **file systems**.
- Installed, configured, and managed **virtual machines** using VMware ESX 3.5, Xen Virtualization.
- Monitoring of network services (SMTP, POP3, HTTP, NNTP, PING, etc.) using **Nagios**.
- Installed/Configured **Apache-tomcat** and **JBOSS** and tuning performance and configured Send mail as relay server for internal mail forwarding.

__Environment:__ Solaris 9, 10, RHEL 3, 4.x, 5.x, AIX Version 5.1, 5.2,5.3,6.1, Veritas Storage Foundation 5, Veritas Cluster Server 5, Windows 2003 Oracle 10/11g, Nagios, Apache 2.x, IIS, HTTP, FTP, VMware.

Certifications

Microsoft Certified: Azure Administrator Associate:
https://www.youracclaim.com/badges/7aff4364-0864-4d98-b96f-fe40e986723a/public_url

Microsoft Certified: DevOps Engineer Expert:
https://www.youracclaim.com/badges/2c433f85-2569-410f-b60a-4434ea9c99b2/public_url

Microsoft DevOps Solutions:
https://www.youracclaim.com/badges/4d3615aa-0bde-4da0-bb88-fc52d0d0f2cc/public_url

Certified Kubernetes Administrator (CKA):
https://www.youracclaim.com/badges/c5b64c6c-8eff-4260-a587-02afb938ba32/public_url

Code of Conduct _Equitable:
https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:6aec33b3-cb6a-44c4-9a4e-10932c047cb6

Threat Modelling:
https://acrobat.adobe.com/link/review?uri=urn:aaid:scds:US:d713cc26-2e3a-4404-8c8f-483b1bc73e84