**Suraj**

**Phone:** **214-295-6596**

**Professional Summary**

Results-oriented IT professional with over 12 years of expertise in **DevOps**, **Cloud** Engineering, and **Unix** Systems Administration, demonstrating comprehensive knowledge in designing, deploying, and maintaining Azure-based IT systems and infrastructure. Adept at leveraging **Ansible**, **Docker**, **Kubernetes**, and **Terraform** to automate system deployments and streamline processes. Proven track record in scripting using **Python** for additional automation needs. Strong proficiency in managing **CI/CD** pipelines and integrating **Ansible** within existing workflows.

**Technical Skills:**

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| --- | --- |
| **Operating System** | Solaris 11/10, Red Hat Linux (RHEL)7/6.x/5.x, SUSE (SLES) 12.x/15.x, OEL 7.x/6.x/5.x, AIX 5.3/6.1/7.1/7.2, Windows 2008/2012/2016 |
| **CI/CD Tools** | Gitlab, GitHub, Jenkins, Nexus, Maven,  TeamCity, Octopus deploy |
| **Security/Code Scanning Tools** | SonarQube, Web Inspect, Fortify on Demand, Mabl |
| **Configuration Management Tools** | Puppet, Ansible and Chef |
| **Web /Application Server/Tools** | Azure DevOps, Tomcat, Apache, IBM RSA/WAS, WebLogic, Oracle MTA, SMS, Splunk, Dynatrace Nagios, App Insight Zabbix, SYSLOG, SCCM, SCOM, SNMP, IIS |
| **Scripting Languages/ Automation** | Shell, PowerShell, Bash, KSH, Perl, Python & Ruby |
| **Cloud services** | Azure, VSTS, TFS, AWS EC2, VPC, ELB, IAM, SNS,  RDS, EDS and Cloud Watch |
| **Hardware** | Dell, HP, Cisco |

**Professional Experience:**

**Client: McCormick & Company Inc., Feb 2022 to Current**

**Location: Remote**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Designed, developed and Maintaining **Azure** Cloud infrastructure in the complete organization.
* Provisioned **Azure** Resource Group and Resources based on the requirement.
* Working Collaboratively with Client to design and document the appropriate Enterprise **DevOps** & **SRE** Solutions that will support business objectives and developer communities such as: Configuration Management, Continuous Integration/Deployment and Cloud platforms.
* Developed Operating System security Patches **Upgrade** Procedure for secure computing and network environment.
* Architected and implemented Microsoft **Defender** application in all the environment VMs for the Monitoring purpose.
* Performed Migration of on-premises applications to **Azure**, utilizing services like **Azure** App Service, Azure Kubernetes Service (**AKS**), or Azure Virtual Machines.
* Commissioned and decommissioned **RHEL 7** and **Windows** servers when required.
* Planned, created, and managed **Active Directory AD** group policy Templates and Policies for Administration.
* Developed and managed security policies for **Azure Firewall** ensuring compliance with organizational security standards.
* Configured role-based access control (**RBAC**) to manage user access and permissions within Azure Virtual Desktop (**AVD**).
* Designed, Developed and Deployed **Ansible** **playbooks** to maintain role-based access control to manage web applications, Environments configuration files, Users, Mount-points and Packages.
* Developed Ansible playbooks and roles to orchestrate complex tasks, ensuring streamlined operations and improved scalability for Azure-based infrastructure.
* Provisioned highly available Instances using **Terraform** and **Ansible** Playbooks.
* Created **ServiceNow** Catalogs and integrated them with **Azure DevOps Organization** (**ADO**).
* Worked on Microsoft **Azure Storage** - Storage accounts, **Blob Storage**, managed and unmanaged storages.
* Configured **Backup** and **Disaster Recovery** for the **Azure** VMs.

**Client: Blue Planet, June 2021 to Feb 2022**

**Location: Hanover, MD**

**Role: Cloud Infrastructure Engineer**

**Responsibilities:**

* Designed Solution Architecture based on Reference Architecture for the Development and use case of Cloud Platforms **Azure**, **AWS** & System Infrastructure.
* Providing support on Threat, Risk assessment & Troubleshooting for Cloud and On-Prem Infrastructure with **ServiceNow** Catalog.
* Developed and supported the Software Release Management and procedures by implementing **Azure** Branching Strategy.
* Automated system deployments and configuration management using **Ansible**, resulting in reduction in deployment time and increased consistency across environments.
* Engineered **Ansible**-driven solutions to automate the deployment and scaling of applications on **Azure** and **AWS** infrastructure, resulting in increased agility and resource optimization.
* Led the integration of **Ansible** within the existing **CI/CD** pipelines, optimizing workflow efficiency and enabling seamless deployments.
* Implemented dynamic inventories in **Ansible** for automated resource provisioning, enabling efficient management of diverse environments.
* Implemented Azure Kubernetes service (**AKS**) in the Organization to deploy a managed **Kubernetes** cluster in **Azure** and created an **AKS** cluster in the **Azure Portal**, with the **Azure CLI**, also used template driven deployment options such as Resource Manager templates.
* Designing, developing, Architecting, and Implementing solutions for High Availability (**HA**), **Backup**, **ASR**, and Disaster Recovery (**DR**).
* Developed **Terraform** script to automate Provisioning of Virtual Machines in the infrastructure.
* Utilized Monitoring tools **Azure Monitor**, **Nagios**, **Zabbix** & **Grafana** for Analysis & Visualization of Systems & Applications.
* Evaluated and recommended improvements to **Azure Migration** processes and best practices, keeping up to date with the latest **Azure** features and services.
* Analyzed logs using **Kibana** and setup dashboard to monitor application performance using **Grafana**.
* Designed and deployed multitude applications utilizing almost all the **AWS** stack (Including **EC2**, **Route53**, **S3**, **RDS**, **DynamoDB**, **SNS**, **SQS**, **IAM**) focusing on high-availability, fault tolerance, and Auto Scaling in **AWS** CloudFormation.
* Established **AWS EC2** instances with **RedHat Linux** OS using cloud formation **C3** in **Ciena**.
* Migrated **EC2** **Kubernetes** clusters to **EKS** as a cost saving measure and simplified management over running native **Kubernetes** in **EC2**.
* Managed deployments in **EKS** managed **Kubernetes**, setup multi nodes cluster and deployed containerized applications.

**Client: Enbridge Inc. Jan 2020 to May 2021**

**Location: Houston, TX**

**Role: Azure DevOps Engineer**

**Responsibilities:**

* Architected the development and use case of **Azure DevOps** platform over the complete organization.
* Provided support on Threat and Risk assessment for Cloud and On-Prem **Azure DevOps** platform.
* Designed Solution Architecture based on developed Reference Architecture on **Azure DevOps**.
* Setup Primary & Backup **Azure DevOps Server** collections in the **Citrix** production environment **VDI**s.
* Developed and supported the Software Release Management and procedures by implementing **Azure Branching Strategy**.
* Led the planning and assessment phase of **Azure Migration** projects, working closely with stakeholders to understand their requirements.
* Setup **Azure Container Registry (ACR)** for Pilot Project Teams to use their existing **Docker Hub** environment in **Azure DevOps**.
* Used Azure Kubernetes service(**AKS**) to deploy a managed **Kubernetes** cluster in **Azure** and created an **AKS** cluster in the **Azure portal**, with the **Azure CLI**, also used template driven deployment options such as Resource Manager templates.
* Implemented **Ansible**-based continuous configuration management for **Azure** resources, ensuring consistent system state and reducing manual errors.
* Automated **Azure** infrastructure provisioning using **Ansible** and **Terraform**, enabling quick environment setup and improving resource utilization.
* Designed and implemented **Ansible**-based automated disaster recovery procedures for Azure environments, reducing recovery time objectives.
* Optimized **Ansible** playbooks for efficiency, reducing execution time by implementing parallel task execution and optimized task sequences.
* Hosted **Docker** as a web container instance for the project.
* Created **CI/CD** pipelines that deploys python web app into container instance.
* Setup **Azure Resource Groups** and Services in **Azure Portal** for implementing it to Projects.
* Authenticated **Azure DevOps** with **Okta** Authentication to secure the Platform.
* Written **Terraform** Templates to build staging and production environments.
* Created and managed **Azure AD** tenants, and configured application integration with **Azure AD**.
* Supported setting up **Backup** and **Recovery** for an On-Premises **Azure DevOps** Platform.
* Developed Project intake process with web-based interface for Project creation to Migrate Teams to Azure DevOps Organization (**ADO**).
* Providing procedure and service for Migrating Project using different external services to **Azure** features in **Azure DevOps**.
* Used **Dynatrace** and **App Insight** to perform root cause analysis to correct errors by fault path and hot spots.

**Client: XPO Logistics Inc., May 2019 to Dec 2019**

**Location: Chicago, IL**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked on System Administration, System Builds, Server builds, Applications Build & Deployment, Installs, Upgrades, Patches, Migration, Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on **Windows** Operating Systems.
* Implemented Ansible for Automated Configuration Management across the organization.
* Established **Ansible** best practices and standards, conducting training sessions for the team to ensure proficiency in **Ansible** utilization.
* Integrated Ansible within the existing CI/CD pipelines, optimizing workflow efficiency and enabling seamless deployments.
* Conducted regular performance tuning and optimization of **Ansible** configurations to maintain system reliability and scalability.
* Configured **TeamCity** and **Octopus** **deploy** for Continuous Integration (**CI**) / Continuous Delivery (**CD**) process.
* Performed Build and Deployment using **Teamcity,** and **Octopus** **deploy** from specific branch to different environments like Dev, Main, QA, UAT, INT & Perf.
* Transformed **.Net** application variables to Config files by using **Octopus** **Deploy**.
* Analyzed, defined, and developed build process improvements using **TeamCity** and **Octopus deploy**.
* Created new environments and projects in **Teamcity** and **Octopus** **Deploy**.
* Worked on **Gitlab** CI and **Teamcity** for CI and for End-to-End automation for all build and CD.
* Developed environments for different applications on **AWS** by provisioning **EC2** Instances using **Docker**, **Bash** and **Terraform**.
* Built Dashboard and Configured Alerts with **Application Insights** for Monitoring.
* Managed **Azure Migration** projects from initiation to completion, coordinating tasks, timelines, and resources.
* Implemented Infrastructure as Code (**IaC**) methodologies, using tools like **Terraform** or Azure Resource Manager templates, to automate the provisioning of **Azure** resources.
* Provisioned load balancer, auto-scaling group and launch configuration for micro services using **Ansible**.
* Established infrastructure and service monitoring using **Prometheus** and **Grafana** by creating a dashboard using **Grafana** to view the results of **Performance** testing and to visualize the metrics collected by **Prometheus**.
* Worked on Network Administration, deploying and troubleshooting of **DNS**, **LDAP**, **NIS**, **NFS**, **DHCP** and **TCP/IP.**
* Built Docker images using **GitLab**-CI build automation runner.
* Used **Zabbix** as monitoring tool and used **Zabbix** Plugin for **Grafana** for analysis & visualization.
* Executed **PowerShell** script to perform **Database** Deployment.

**Client: Sabre, July 2018 to Apr 2019**

**Location: Southlake, TX**

**Role: DevOps Engineer**

**Responsibilities:**

* Responsible for building **CentOS** and **RedHat** **Linux** base images with **Packer** using **Vagrant**.
* Automated the **OS** installation by **Kickstart** configuration.
* Built **Puppet Master** and **Chef Server** in the Sabre Infrastructure.
* Developed **YUM** Server and involved in Installing, updating packages using **YUM**.
* Installation, configuration of **Puppet Agent** and **Chef Client** on **Linux** systems using **Vagrant**.
* Involved working on Asset management with approved software’s by using **Puppet** and **Chef.**
* Supported **Puppet** environment with **Linux** servers and involved in developing **Puppet** manifest files to deploy automated tasks to many servers at once from scratch.
* Orchestrated the provisioning of **Azure** resources, including virtual machines, databases, storage accounts, and networking components.
* Integrated **Azure** Firewall with other Azure services, such as **Azure** Monitor and **Azure** Security Center, for enhanced visibility and threat detection.
* Implemented data migration strategies to minimize downtime and data loss during the transition.
* Designed and implemented load balancing solutions to ensure high availability and optimal performance for **Azure** Virtual Desktop sessions.
* Configured and hosted **Web Apps** using **NGINX** Web Server in **Linux** **CentOS** operating system.
* Create cookbooks for **Chef** using the **Ruby** programming language for automated deployment.
* Worked on **Network** configuration of **Nodes** to communicate with the server.
* Worked on **Linux** desktop environment by creating a standard **Linux** image.
* Automated Code version control using **GitLab**.
* Used **Redis** Cache for high Performance, which creates space for new data by removing old data.
* Created a Standard **Linux** Image with **Linux** Desktop Environment
* Administered and configured **Windows** OS, **IIS** and Microsoft Dot Net Framework Servers.

**Client: GE Healthcare, Aug 2017 to June 2018**

**Location: Waukesha, WI**

**Role: DevOps Engineer**

**Responsibilities:**

* Responsible for installation and configuration of Red Hat Scientific Linux systems on bare metal servers and VMs.
* Performed OS migration from **RHEL6** to **RHEL7**, and Successfully Upgraded the VMs from **RHEL-7.4** to **RHEL-7.5**.
* Successfully performed USB Installation of **RHEL7** on bare metal servers.
* Responsible for Building and configuring the bare bone machines to become a fully functional member of Production, Development and Test environments.
* Upgraded Linux kernel, memory and performed **RHEL** Kickstart installations.
* Worked on installation and configuration of **SCAP** and **OpenSCAP** profiles to support automated configuration, vulnerability and patch checking, technical control compliance activities, and security measurement.
* Designed and executed the migration of on-premises infrastructure to **Azure**, ensuring minimal downtime and data loss.
* Managed **Azure** resources, including virtual machines, storage accounts, databases, and networking components, to optimize performance and cost.
* Created Infrastructure as Code (**IaC**) templates using Azure Resource Manager (**ARM**) templates or tools like **Terraform** to automate the provisioning and management of **Azure** resources.
* Set up and managed Azure Active Directory (**Azure AD**), creating users, groups, and roles to control access to Azure resources.
* Designed and implemented **Azure** Backup and **Azure** Site Recovery solutions to protect data and applications against data loss and outages.
* Created real-time dashboard for team utilizing **Logstash**, **Elastic Search**, **Kibana** & **Redis**.
* As part of Performance Tuning, Monitored **Linux** server's CPU Utilization, Memory Utilization, and Disk Utilization.
* Worked on Network Administration, deploying and troubleshooting of **DNS**, **LDAP**, **NIS**, **NFS**, **DHCP** and **TCP/IP**
* Responsible for Patch installation, upgrades and packages installation on **RHEL6** by using **RPM** and **YUM**.
* Created **GitLab**-CI environment for continuous CI/CD.
* To automate and maintain build and release tasks, customized the scripts using **bash** and **Per**l scripts.
* Install and configure switches from many vendors including **Dell** Power Connect, **Cisco** and **HP**.

**Client: Argo Group, Sep 2016 to July 2017**

**Location: San Antonio, Texas**

**Role: DevOps Engineer**

**Responsibilities:**

* Installed, configurated and upgraded **RHEL,** **OEL Linux, CentOS, Solaris** on ***HP*** and **Sun/Sprac** (T3-x, T4-x) Servers.
* Allocated resources to the **Virtual Machines** based on the requirements from the Users.
* Engineered, built Servers to include the installation and maintenance of multiple OS packages such as **Linux (RHEL, OEL, CentOS), Solaris**.
* Coordinated with other teams like **Network, Storage** and Windows for smooth operation of the projects.
* Implemented **AWS** solutions using **EC2, S3, RDS, EBS, Route53 and Elastic Load Balancer**, Auto-scaling groups, Optimized volumes and **EC2** instances.
* Worked with **Ansible** and **Puppet** to automate the process for system-wide configuration and management of **Linux** servers and built Continuous Integration environment using **Jenkins**.
* Proficient with container systems like **Docker** and container orchestration like **EC2** Container Service, **Kubernetes**, worked with **Terraform**.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes, Linux, Bash, GIT, Docker**, on **AWS**.
* Developed Puppet codes in Manifest for automating the new environment and deploying through GitLab.
* Used **CI/CD** tools **Jenkins, Git/Gitlab, Jira** and **Docker** registry/daemon for configuration management and automation using **Ansible**.
* Deployed application which is containerized using **Docker** onto a **Kubernetes** cluster which is managed by Amazon Elastic Container Service for Kubernetes (**EKS**).
* Migrated from **Gitlab** to **Docker** and implementing **Gitlab** inside **Docker**.
* Written and maintained **Puppet** modules and manifests for various automation and configuration management efforts.

**Client: Estuate Inc., Nov 2015 to Sep 2016**

**Location: Sunnyvale, CA**

**Role: System Administrator**

**Responsibilities**:

* Developer to align process and tools, such as branching source control structure dependency management **Linux/Windows** hybrid build infrastructure, code review & check-in policies, that are developed and instrumented by **DevOps** teams.
* Managed **Ubuntu**, **Linux** and **Windows** virtual servers on **AWS EC2** using **Puppet Master**.
* Implemented **AWS** solutions using **EC2, S3, RDS, EBS, and Elastic Load Balancer**, Auto-scaling groups, Optimized volumes and **EC2** instances.
* Used **DNS** management in **Route53**, **Amazon S3** to backup database instances to save snapshots of data.
* Automated applications and **MySQL** container deployment in **Docker** using **Python** and monitor them using **Nagios**.
* Installation of **Oracle Patches** and Troubleshooting, Creating and modifying application related objects, Creating Profiles, Users, Roles and maintaining system security.
* Responsible for Implementing and Managing **Docker** and **Kubernetes** infrastructure, and performed operations like **Docker** container snapshots, attaching to a running container, removing images, managing director structures and managing containers.
* Worked on container systems like **Docker** and container orchestration like **EC2** Container Service and managed **AWS** Instances with **Terraform**.
* Worked on deployment automation of all the Microservices to pull image from the private **Docker** registry and deploy to **Docker Swarm** cluster using **Ansible**.
* Worked on establishing connections to clients using **SSH** keys with master **Ansible** node and writing **Ansible** Playbooks for various deployments in production and non-production environments with **CI/CD** process using **Jenkins**.
* Maintained **Puppet** modules and manifests for various automation and configuration management efforts.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in **Jenkins** to move from one environment to environments.

**Client: PressMart Media Ltd., June 2012 to Aug 2015**

**Location: Hyderabad, India**

**Role: Linux Administrator**

**Responsibilities:**

* Installation, configuration & administration of **RED Hat Linux, RHEL 4.0/ RHEL 5.0**
* Used **VERITAS Net backup** tool for Backup and recovery.
* Responsible for **DNS** and Configured **DNS** Servers and Clients and troubleshooting system and **DNS** issues.
* Implemented Server consolidation and virtualization using **UML Linux, XEN and VMware virtual infrastructure, VMware ESX, VMware vCenter**
* Allocated resources to the **Virtual Machines** based on the requirements from the Users.
* **Package, Patches management**, Migration, Integration & distribution in development, Testing, QA, Training, Production environment. (Testing: UAT, SIT, OAT, Performance testing).
* Monitoring of serversusing **SCOM and Nagios.**
* For the dynamic datacenter performance worked with different virtualization techniques on **Solaris-10**.
* Deploy and manage **Datastore** for all **VMware ESXi** hosts.
* Perl Application and Perl Module Development in Object Oriented **Perl** on **Solaris, RHEL Linux, Bash.**

**Educational Qualification:**

* BTech in Computer Science and Engineering from Bundelkhand University, India 2012
* MS in Computer Science from Silicon Valley University, San Jose, California, USA 2016