**ROOPU VARDHAN**

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**PROFESSIONAL SUMMARY:**

* Over 5+ years of experience in IT industry in various roles with excellent experience in**, Software Configuration Management,** **DevOps Engineer Build & Release** and **Deployment management**. Development for several markets driven international organizations.
* Extensive experience in **Analysis, Designing, Development, Testing, Bug fixing, Documentation and Implementation** of Client/Server and Web Technologies for various N-Tier applications.
* Experience with **SaaS** (Software as a Service), **PaaS** (Platform as a Service), and **IaaS** (Infrastructure as a Service) solutions.
* Basic level of hands-on experience in AWS provisioning and good knowledge of AWS services like EC2, S3, VPC, Auto Scaling, RDS
* Experience in dealing with **Windows Azure IaaS** - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways and Auto-Scaling.
* Supported the application in production and worked closely with offshore teams.
* Experience in handling **Azure Storage, Blob Storage, File Storage**, Setting up of Azure CDN and load balancers.
* Experience with **container-based** deployments using **Docker**, working with Docker images, Docker Hub and Docker-registries and **Kubernetes**.
* Understanding the Client environment, Administrating and creating solutions using **Azure Services**
* Having good knowledge on **SSH connections** and password less authentications between servers.
* Proficiency with Configuration Management tools & Build management tools such as **Azure DevOps** andcreating separate build agents
* Experience in creating build and release pipelines using Azure DevOps and orchestrating deployment of applications
* Experience with integration of **Azure DevOps and Terraform**
* Experience in using version controller tools like **GIT**.
* Experience working with **PowerShell**

Technical Skills:

* **Virtualization & Containerization:** Docker, Kubernetes, Azure (AKS)
* **Cloud Technology:** Microsoft Azure (VM, App Service, Azure Backup, Compute storage, Azure monitoring, Azure site recovery)
* **Operating system:** Windows, Ubuntu, Linux
* **Web Technologies:** HTML5, CSS, JavaScript, JSON
* **Scripting Languages:** PowerShell, JavaScript
* **IDEs:** Visual studio, Visual studio code, Eclipse
* **Databases:** SQL Server, Mongo DB
* **Reporting Tools:** Crystal Reports, Crystal Reports .NET, SQL Server Reporting

**PROFESSIONAL EXPERIENCE:**

**TD Bank, NJ Nov 2021 - Present**

**Role: Azure DevOps Engineer**

**Responsibilities:**

* Hands on Experience working with the Microsoft Azure Cloud Services and Deployed the servers through Azure Resource Manager Templates or Azure Portal.
* Planning and implementing Disaster Recovery solutions, capacity planning, data archiving, backup/recovery strategies, Performance Analysis, and optimization.
* Strong Experience on Administration and Troubleshooting of Azure IAAS Components (VM, Storage, VNET, OMS, NSG, Site to Site VPN, RBAC, Load Balancers, Availability Sets).
* Experience in setting up cluster environment for load balancing and high availability of Windows and Linux servers.
* Experience in Creating the CI/CD Azure DevOps Pipeline for the .Net, java & UI based Web Applications.
* Good Exposure in Azure Site Recovery and Azure Backup and Configuring Azure Backup vault for protecting required VMs to take the VM level backups for Azure and On Premises Environment.
* Working knowledge on Azure Cloud IaaS and PaaS Services. Having Experience of Creating and Managing the users and groups in Azure AD.
* Experience in managing Microsoft Windows server infrastructure and data-center operations by effectively planning, installing, configuring and optimize the IT infrastructure to achieve high availability and performance.
* Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Worked on the PowerShell Script to automate the Windows patching and created the release in Azure DevOps pipelines.
* 24/7 monitoring the Azure Resources using Azure Monitor and Web Apps for Application Insights.

**Environment: Azure, Azure DevOps, .Net, PowerShell**

**Gain well Technologies, India. Feb 2020 – Aug 2021**

**Role: Azure DevOps Engineer**

**Responsibilities:**

* Implementing **Azure** Resource Groups, Resource Tags, AAD groups, and Role based access.
* Designing and implementing cloud network architecture using **Azure virtual networks**, VPN and express route to establish connectivity between on premise and cloud.
* Design and implement database solutions in **Azure SQL Data Warehouse, Azure SQL**.
* Architect & implement medium to large scale BI solutions on Azure using Azure Data Platform services **(Azure Data Lake, Data Factory, Data Lake Analytics, Stream Analytics, Azure SQL DW, HDInsight/Data bricks, NoSQL DB)**
* Develop PowerShell scripts, Azure CLI, and ARM templates to automate the provisioning and deployment process.
* Worked on Pivotal Cloud Foundry (PCF), Google products and **Docker** container services.
* Experience in using PCF Ops Manager/BOSH to deploy and manage cloud foundry
* Created ARM template to join VM to existing domains, Create a sandbox setup of Azure Firewall with Zones.
* Design and deploy applications utilizing AZURE stack **(Including Azure VM’s, Blob Storage, SQL Database, Data Factory, Virtual Network, Traffic Manager, Load Balancer, AKS, Key Vault, Log Analytics**) to achieve high-availability fault tolerance, and auto scaling in Azure Resource Manager.
* Creating Clusters in **Azure Kubernetes Service** (AKS) to deploy a managed Kubernetes cluster in Azure.
* Implement Ansible to automate cloud provisioning, configuration management, and application deployments.
* Build effective monitoring, logging, and auditing of production systems to ensure compliancy with mandated policies.
* Written and Maintained Automated **Salt scripts** for **Elasticsearch, Logstash, Kibana, and Beats**.
* Guide and support application teams with onboarding, troubleshoot and resolve implementation issues like Troubleshoot and identify Kibsy performance, connectivity and other issues for the applications hosted in Azure platform.
* **Groovy** 2.5 brings us some useful methods to the String class. Calculating hashes is as simple as calling a method on a String.
* Configured local **Maven** repositories with **Nexus repositories** and scheduled projects in Jenkins for continuous integration.
* Writing custom **Gradle** tasks, publishing plugins to **Gradle** plugins portal.
* Provisioned ELK Stack on Azure environment with the help of **Terraform** and **Ansible** templates.
* Used Jenkins pipelines to drive all **microservice**s built out to the Docker registry and then deployed to Kubernetes, created pods and managed using Kubernetes.
* Using Jenkins to deploy code to Azure create a new namespace, creating Docker images and pushing them to the container registry. Involved in setting up a **Microservice** architecture for application development.
* Developed Nagios Plugin scripts, various reports, and projects plans in the support of initiatives to assist in maintaining Nagios distributed system monitoring and management via several data extrapolating applications
* Worked on Managing the Time Options in Nagios and Created an Event Handler for the **Nagios Server**.
* Experience using **Ansible** Tower, which provides an easy-to-use dashboard, and role-based access control, so that it's easier to allow individual teams access to use Ansible for their deployments.
* Implemented multi-tier application provisioning in **OpenStack cloud**, integrating it with **Ansible.**
* Used Ansible and **Ansible tower** (AWX) as configuration management tool to deploy the application to multiple servers at once.
* Build API’s in Ansible for operational work to install software so that end users can call API’s from Ansible Tower and can easily install whatever software they want.
* Creating Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks and ingress by writing **YAML** files.
* Implemented a production ready, load balanced, highly available, fault-tolerant, auto scaling Kubernetes infrastructure and micro service container orchestration.

**Environment:** Azure, AKS, Ansible, Docker, Git, Jenkins, Log analytics, Maven, Azure Monitor, PowerShell, ELK Stack, Nagios, Terraform, Python, Bash, Shell, Kubernetes, Kibana, Docker Compose, Docker Swarm, Ansible Tower, Splunk.

**Role: AT&T Integrated Cloud Tools Testing Aug 2017 – Dec 2019**

**Client: AT&T Inc, India.**

**Responsibilities:**

* Preparing detailed test plans, acceptance criteria, Requirement Traceability Matrix, and test scenarios for each project.
* Accurately monitoring and recording results in test documentation
* Monitoring the testing process and identifying and logging test failures
* Performing peer reviews and estimates.
* Execute Regression test suite (manual and automated) on all applications before delivering every release.
* Creation of Automation Suites for Ubuntu Server to test GS Tools (General Security Tools) on AIC Servers using Robot Framework (RIDE).
* Integration of Automated Suites with Jenkins to create automated builds and publish results.
* Automation of Horizon Dashboard to test VM Creation and Validation via Selenium WebDriver using TestNG Framework.
* Automation of launching VM’s using Controller node in Open stack architecture using Ansible Playbooks.
* Integration of Selenium Automation suites with Jenkins.
* Perform Sanity and Post-Production Testing before and after each release respectively.

**Environment:** Putty, Robot Framework, Selenium, JIRA, HP-ALM, Jenkins