   

**SWATHI KOTA.**

DevOps Engineer / Azure Support Engineer

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**SUMMARY:**

* Fast-paced software professional with 9.7 years of experience in the IT Industry, in those 5 years of experience in Azure DevOps Engineering, and in automation, building, releasing of code from one environment to other environments, and deploying to servers.
* Extensive experience includes Azure DevOps, Linux Admin, Cloud Management, and Containerization.
* Gained exposure in complete software development life cycle (SDLC) with software development models like Agile, Scrum Model, JIRA, and Waterfall model.
* Provisioned large-scale environments as an infrastructure as a code using Terraform and developed custom Terraform Modules for projects to manage code as DRY
* Highly motivated and committed DevOps Engineer experienced in Automating, configuring, and deploying instances on AWS, Microsoft Azure, and Rackspace cloud environments and Data centers.
* Created and deployed applications, manage domains, control access to our OpenShift applications, and give you complete control of your cloud environment.
* Experienced in GoLang Microservices using channels, routines, functional interfaces, and various frameworks.
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Created and deployed VMs on the Microsoft cloud service Azure, managed the virtual networks, Azure AD, and SQL.
* Involved in maintaining Atlassian products like JIRA, Confluence, Bamboo, and Bitbucket.
* Designed and implemented for fully implemented server build management, monitoring, and deployment by using chef.
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository. Responsible for implementing Puppet for applications deployment.
* Worked on Openshift platform in managing Docker containers and Kubernetes Clusters and Created Kubernetes clusters using ansible playbooks (launch-instan deploy-docker.yml, deploy-kubernetes.yml) on Exoscale.
* Performed architect roles like redefining architecture and automating existing one
* Experienced in Installation and Configuration of different modules of Service-Now.
* Gained exposure in branching, tagging, and maintaining the version across the environments using SCM tools like GIT, Subversion (SVN), and TFS on Linux and Windows platforms.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Extensive experience with the GoLang language and integrating various stacks including Java, JavaScript, AJAX, jQuery, AngularJS, ReactJS, NodeJS, Angular, Bootstrap, JSON, XML and Python.
* Established Jenkins jobs to a new server, Jenkins pipelines, and Dockized build environments
* Experienced in Installing, configuring Cloud Foundry Ops Manager, App Manager, Etc.

**EDUCATION:**

* Bachelors in Computer Science from JNTU - Hyderabad, India.

**CERTIFICATIONS :**

* Certified in Project Management Professional (PMP)
* Microsoft Certified DevOps Engineer Expert.
* Microsoft Certified Azure Administrator Associate.
* Microsoft Certified Azure Solution Architect Expert.

**TECHNICAL SKILLS:**

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| **AWS Services** | RDS, EC2, VPC, IAM, Cloud Formation, EBS, S3, ELB, Auto Scaling, Cloud Trial, SQS, SNS, SWF, Cloud Watch. |
| **Cloud Platforms** | Microsoft Azure, Aws Cloud. |
| **Azure Services** | App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD), Service Bus, Azure Container Registry (ACR) and Azure Kubernetes service (AKS), Azure SQL, Azure Cosmos DB. |
| **Version Control Tools** | GIT, Bitbucket |
| **CI/CD** | Jenkins, Azure Pipelines |
| **Configuration & Automation Tools** | Ansible |
| **Container Platforms** | Docker, Kubernetes, Open Shift. |
| **Monitoring Tools** | Nagios, Splunk |
| **Languages** | Python, Shell scripting. |
| **Artifactory** | Jfrog and Nexus |
| **Web Servers** | Nginx |
| **Documentation** | Confluence |
| **Operating Systems** | Microsoft Windows XP/ 2000, Linux, UNIX. |
| **Tracking Tools** | Jira |
| **Code Scanning** | SonarQube, Jfrog X ray, ECR Inspector |
| **Databases** | RDS, Cosmos DB, My SQL DB. |
| **Logging** | Cloud Watch, Cloud Trail, Azure App Insights, Azure Monitor |

**PROFESSIONAL EXPERIENCE:**

**Johnson & Johnson (Remote) Jan 2023 - Present**

**Azure Support Engineer**

**Responsibilities**

* As a support engineer managing and deploying Azure solutions
* Collaborated with development teams to provision and configure Azure infrastructure, including virtual machines, virtual networks, storage accounts, and load balancers,
* Developing Infrastructure as Code (IaC) principles and tools like Azure Resource Manager (ARM) templates or Terraform.
* Implemented continuous integration and continuous deployment (CI/CD) pipelines using Azure DevOps or similar tools to automate the deployment of applications and infrastructure changes.
* Integrated source code repositories, build systems, and release pipelines to ensure efficient and reliable software delivery.
* Enterprise Container Services, and today using AWSFaregate.Implemented Micro Services framework with Spring Boot, NODE.JS and OpenShift containerization platform (OCP).
* Implemented a generic Golang backend Restful server that allows asynchronous and sequential PIPEs to have fast and powerful APIs.
* Worked with DBA team to migrate Hive and Oozie metastore Database from MySQL to RDS
* Configured Azure Monitor to proactively monitor infrastructure and application health, set up alerts and notifications for critical events or performance anomalies.
* Utilized Azure Application Insights for application monitoring and troubleshooting.
* Responded to incidents and issues, performed root cause analysis, and resolved production outages in a timely manner.
* Utilized Azure Log Analytics and Azure Monitor logs for troubleshooting and diagnostics.
* Conducted performance analysis and optimization of Azure infrastructure and applications, identifying bottlenecks, tuning configurations.
* Developed Golang software to handle concurrent data collection and processing with goroutines and channels for a WiFi device.
* Implementing optimizations to improve performance, scalability, and cost efficiency.
* Working on implementing new OCR solution; Spring Boot, OpenShift, microservices. Member of group developing containerized applications; Docker, Spring Boot, Kubernetes, OpenShift. Deployed Microservices to IBM Bluemix Cloud Foundry and later migrated to OpenShift.
* Loaded data from Oracle, MS SQL Server, MySQL, Flat File database into HDFS, HIVE
* Configuring Azure Services to meet needs of the organization.
* Responsible for role-based access control and assigning AD roles to Users based on their request.
* Troubleshooting and resolving Azure services-related issues.
* Implemented and managed CI/CD pipelines using tools like Jenkins, GitLab CI/CD, or Cloud Build for automated build, test, and deployment of applications on GCP.
* Utilized infrastructure-as-code tools like Terraform or Deployment Manager to provision and manage GCP resources in a repeatable and scalable manner.
* Configured and managed GCP networking components, such as VPCs, load balancers, and firewall rules, to ensure secure and efficient communication between services.
* Managing Azure Identity and access (IAM) for both Azure subscriptions and Azure AD.
* Responsible for creating Change Requests in Service now for deploying resources in Azure.
* Resolving Azure services-related incidents.
* Used Docker, Kubernetes and OpenShift to manage micro services for development of continuous integration andcontinuous delivery.
* Proactive in picking requests from Service now and working on Azure services and delivering it on time.
* Working with different teams in resolving Azure related issues and providing solutions.
* Involved in integrating Docker container-based test infrastructure into the Jenkins CI test flow and setting up a build environment integrating with GIT and JIRA to trigger builds using Web Hooks and Slave Machines.
* Configured 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.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform).
* Migrated MySQL database environments with minimal downtime to AWS Aurora.
* Implemented the microservices to process the messages into the Kafka cluster setup using Golang.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Involved in requests related to Azure Kubernetes services and other Admin tasks

**Atlassian - Michigan Jun 2021- Dec 2022**

**DevOps/Azure Engineer**

**Responsibilities**

* Hands-on Experience in creating Azure Key Vaults to hold Certificates and Secrets, designing Inbound and Outbound traffic rules, and linking them with Subnets and Network Interfaces to filter traffic to and from Azure Resources.
* Well-versed in automating Infrastructure using Azure CLI, monitoring and troubleshooting Azure resources with Azure App Insights, and accessing subscriptions with PowerShell.
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Migrated on-premise MySQL environments to MySQL on Confidential EC2 and Confidential Aurora MySQL with ongoing database replication.
* Worked in container-based technologies like Docker, Kubernetes and OpenShift.Point team player on OpenShift for creating new Projects, Services for load balancing and adding them to Routes to be accessible from outside, troubleshooting pods through ssh and logs, modification of Build configs, templates, Image streams, etc.
* Configured and maintained Azure Storage Firewalls and Virtual Networks, which use virtual Network Service Endpoints to allow administrators to define network rules that only allow traffic from specific V-Nets and subnets, so creating a secure network border for their data.
* Used Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal using template-driven deployment options such as Azure Resource Manager (ARM) templates and terraform.
* Deployed and managed Confidential Aurora MySQL environments using Terraform.
* Created RPC-based service for reading large volume of data from PostgreSQL using GoLang.
* Implemented and provided Single Sign-On (SSO) access to users using Software as Service (SAAS) applications such as Dropbox, Slack, and Salesforce.com using Azure Active Directory (AAD) in Microsoft Azure.
* Performed Azure Scalability configuration that sets up a group of Virtual Machines (VMs) and configures Azure Availability and Azure Scalability to provide High Application Availability and can automatically increase or decrease in response to demand.
* Implemented containerization using Docker and container orchestration using Kubernetes on GCP to achieve scalable and resilient application deployments.
* Utilized GCP services like Cloud Functions, Cloud Run, or App Engine for serverless computing, enabling automatic scaling and cost optimization.
* Implemented GCP security best practices, including IAM roles and permissions, encryption at rest and in transit, and security scanning of container images.
* Used Azure Kubernetes Service (AKS) for Implementing Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed them.
* Developed continuous integration and deployment pipelines that automated builds and deployments to many environments using VSTS/TFS in the Azure DevOps Project.
* Building a Command line tool to interact with RESTful API using in GoLang.
* Focused on using Terraform Templates to automate Azure IAAS VMs and delivering Virtual Machine Scale Sets (VMSS) in a production environment using Terraform Modules.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Integrated Azure SQL Database or Azure Cosmos DB for efficient data storage and management, leveraging their scalability and performance capabilities.
* Implemented security measures in Azure, such as role-based access control (RBAC), Azure Active Directory (AAD) integration, and encryption at rest and in transit.
* Involved in creating Jenkins pipelines to drive all micro services builds out to the Docker images and stores in Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes and also performed Jenkins jobs for deploying using Ansible playbooks and Bitbucket.
* Splunk experience includes installing, setting, and troubleshooting the software, and monitoring server application logs with Splunk to detect production issues.
* Handled integrating JIRA with GIT repositories to track all code changes and implemented Azure Boards to track all issues relevant to the software development lifecycle.

**Advisor Group - Phoenix, AZ Dec 2019 - May 2021**

**DevOps Engineer**

**Responsibilities**

* Worked with Windows, Linux and AWS teams to resolve issues and plan for infrastructure changes.
* Provided documentation of solutions for VMWare, Windows, and Linux and AWS teams.
* Set up preconfigured RHEL5.x and 6.x on local and in the cloud on AWS EC2 and defined AWS Security Groups, which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Launching EC2 instances and involved in AWS RDS, S3, Load Balancing, IAM, VPC, Cloud Formation, Lambda, and Cloud Watch.
* Used AWS Route53, to route the traffic between different availability zones. Deployed and supported Mem-cache/AWS Elastic-Cache and then Configured Elastic Load Balancing (ELB) for routing traffic between zones.
* Working closely with Cassandra loading activity on history load and incremental loads from Teradata and Oracle Databases and resolving loading issues and tuning the loader for optimal performance.
* Involved in development of test environment on Docker containers and configuring the Docker containers using Kubernetes.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Worked on Multiple AWS instances set the security groups, Elastic Load Balancer (ELB) and AMIs, Auto-scaling to design cost effective, fault tolerant and highly available systems.
* Changing the AWS infrastructure Elastic Beanstalk to Docker with Kubernetes.
* Implemented cloud services IAAS, PAAS, and SaaS, which include Open stack, Docker and Open Shift.
* Worked on NoSQL database Dynamo DB to process large data documents.
* Migrated the production SQL server schema to the new AWS RDS Aurora instance. Wrote SQL queries and worked on administration for optimizing and increasing the performance of database.
* Installed and administered Docker and worked with Docker for convenient environment setup for development and testing.
* Developed micro service on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Developing Docker images to support Development and Testing Teams and their pipelines; distributed Jenkins, Selenium and JMeter images, and Elastic search, Kibana and Log stash (ELK & EFK) etc.
* Installed Docker Registry for local upload and download of Docker images and even from Docker hub.
* Worked on the Docker ecosystem with a bunch of open-source tool like Docker machine, Docker Compose, Docker Swarm.

**Kennametal - Latrobe, PA Aug 2018 - Nov 2019**

**DevOps Engineer**

**Responsibilities**

* Experience in Azure IAAS, Provisioning VM's and Virtual Hard disks, Virtual Networks, Reserved VIP, Deploying Web Apps, and Creating Web Jobs.
* Deploy Json commands to deploy templates and perform migrations in Azure.
* Responsible for Creation and Maintenance of MS Azure Cloud Infrastructure and Virtual Network between MS Azure cloud and On-premise network for backend communication.
* Developed windows services to store SQL server data in to cloud based data warehousing by using Microsoft Azure & implemented security in web application using Azure and deployed web application to Azure.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Worked with Cloud Azure product team in tracking and resolving defects.
* Experience in Branching, Tagging and maintaining the version across the environments using SCM tools like Git, GitHub, and Bit Bucket.
* Created Ansible roles using YAML such as Tasks, Variables, Files, Templates, and Handlers and writing playbook for that particular roles.
* Conducted monitoring and logging of Azure resources using Azure Monitor or Azure Log Analytics, ensuring system health, performance, and troubleshooting.
* Implemented continuous integration and continuous deployment (CI/CD) pipelines using Azure DevOps or Azure Pipelines, enabling efficient application delivery and release management.
* Experienced in installing and configuring Jenkins on Linux Machines alongside updating plugging’s like JDK, Maven, Git, SonarQube.
* Installed and configured Ansible. Created different Playbooks. And managed Ansible inventories.
* Implemented Continuous Integration and Continuous Delivery (CI/CD) pipeline using Jenkins.
* Created end to end automated CI/CD pipeline in Jenkins to retrieve, code compile applications, perform test and push build artifacts to Nexus Artifactory/S3 buckets.
* Involved in the functional usage and deployment of applications into Apache Tomcat server.
* Created Docker Images using a Docker file and running Docker images in containers.
* Deployed and monitored scalable infrastructure on AWS using configuration management tool Ansible.
* Automated application deployment in the Cloud using Docker technology using Elastic Container Service scheduler.
* Worked on Terraform for automating VPCs, ELBs, security groups, SQS queues, S3 buckets.
* Worked on Terraform for managing the infrastructure through the terminal sessions and executing the scripts through the terminal.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, Config maps, deployments, replica sets, nodes.

**Capital One – Richmond, VA June 2017 - July 2018**

**DevOps Engineer**

**Responsibilities**

* Creating fully automated build and deployment infrastructure and processes for multiple projects.
* Developing scripts for build, deployment, maintenance and related tasks.
* Design and implement solutions for monitoring, scaling, performance improvement and configuration management
* Provide timely resolution to MQ software related problems and performance issues
* Work with application developers and QA support groups to resolve issues and problems with MQ subsystems
* Work with vendors and technical support teams to identify MQ software related problems
* Implemented and managed virtual machines (VMs) on Azure, configuring networking, storage, and security settings to meet application requirements.
* Utilized Azure App Services or Azure Kubernetes Service (AKS) to host and manage web applications, ensuring seamless deployment and scaling.
* Develop scripting to automate common system tasks/actions, alerts and problem tickets
* Develop wellness health check scripts, processes, and procedures
* Develop scripting to automate systems engineering tasks (e.g., new subsystem builds, maintenance implementations)
* Conduct Production Readiness Inspections of change events, assessing impacts and risks
* Provide technical recommendations involving the DB2 environments and tools upon request
* Monitor system resources, make tuning recommendations
* Created monitoring metrics and dashboards using enterprise tools.
* Analyzing existing data model and made appropriate changes to make it compatible with business requirements.
* Involved in the Implementation of the project and have to support for Production issues after implementation of the project.

**Charles Schwab - Westlake, TX Oct 2013 - May 2017**

**Linux Administrator**

**Responsibilities**

* Created and maintained user accounts in Redhat Enterprise Linux (RHEL)and other operating systems
* Troubleshooting and maintaining of TCP/IP, Apache HTTP/HTTPS, SMTP and DNS applications.
* Configuration of NIS, DNS, NFS, SENDMAIL, LDAP, TCP/IP, Send Mail, FTP, Remote access Apache Services on Linux &UNIX Environment.
* Migrated different projects from Perforce to SVN
* Performing NIC bonding on Linux Systems for redundancy.
* Diagnosed and resolved problems associated with DNS, DHCP, VPN, NFS, and Apache.
* Created Bash/shell scripts to monitor system resources and system maintenance.
* Installed, tested and deployed monitoring solutions with Splunk services.
* Implemented Azure Functions to build serverless applications, leveraging event-driven architecture and automatic scaling.
* Implemented Azure Logic Apps or Azure Event Grid for orchestrating workflows and integrating various services or systems.
* Resolved configuration-based issues in coordination with infrastructure support teams.
* Maintained and managed assigned systems, Splunk related issues and administrators.
* Skilled in deploying, configuring and administering Splunk clusters.
* Responsible for the basic administration tasks related to LDAP and WebSphere Portal.
* Installed and configured servers using Redhat Linux KickStart method.
* Created Linux Virtual Machines using VMware Virtual Center, creating VM Templates, and troubleshooting all Virtualization related issues.
* Coordinating with 24 x 7 on-call support personnel in debugging.