**Sirisha Chaparla**

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**PROFESSIONAL SUMMARY:**

* Around 9+ years of extensive experience in integrating various technologies – CLOUD (AZURE), DEVOPS (Azure DevOps, Jenkins, Kubernetes, AKS, Docker, Terraform, Ansible, ARM Templates, GIT, GITHUB, Azure Repos, TFS, JIRA, Splunk, Application Insights, Prometheus and Grafana), Web Servers (Tomcat, IIS, Apache), Databases (Oracle, DB2), Linux (Red hat, Ubuntu) and Windows environments.
* Hands on experience in AZURE Cloud Services: (ARM Templates, Virtual Network, Network Security Group, Networking, API Management, Application Gateway, Key Vault, VM Scale Sets, DNS, Application Insights, DNS, Storage Accounts, Log Analytics Workspace, Azure Alerts, Azure Kubernetes Clusters, Containers Registry, Databases, Computing services, AAD, RABC, IAM).
* Experience on setting the best practices for code management, build, deploy and release across multiple teams/products in CI /CD model on Azure DevOps.
* Extensive experience in migrating on-premises applications to Azure as per the project requirement and Deployments into AKS clusters.
* Hands on experience in writing Terraform to deploy, update and delete multiple resources in Azure and migrating the on-premises resources to Azure with Azure Site recovery (ASR) and Azure backups.
* Configure helm charts to deploy the microservices to all environments.
* Experience as a DevOps Engineer overseeing deployments in Azure Continuous Integration, Continuous Deployment, performing Release Management and Change Management activities.
* Experienced in utilizing Azure Stack (Compute, Web, Resource Groups, Storage Accounts, ACR, Azure Data Factory, Azure SQL, Cloud Services, and ARM) and services for configuring and deploying Azure Automation Scripts for multiple applications.
* Hands-on experience with scaling technologies and solutions.
* Strong Scripting skills in YAML, JSON and Bash scripts to automate the deployments and for environmental changes.
* Experience in Azure infrastructure with automation and configuration management.
* Proficiency on Azure and related services like build automation, scripting for Docker/non-Docker Micro services.
* Expertise in using Terraform key features such as Infrastructure as a code (IAC), Execution plans, Resource Graphs, Change Automation. Experience in writing new plugins to support new functionality in Terraform.
* Experience on writing JSON and YAML scripts to deploy AZURE Services using Cloud Formation.
* Configured monitoring tools like Splunk, Application Insights and Prometheus and Grafana to monitor live web applications, Kubernetes clusters.
* Experience with Azure Resource Manager, Resource Groups, Virtual Networks, Azure Virtual Machines, Azure Blob Storage, Azure Automation, Azure Active Directory, and Azure Site Recovery.
* Manage 50+ total Azure accounts to control access more effectively to resources and increase security.
* Experience using Application Performance Management (APM) tool Log Analytics and Application Insights.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Core Technical:** | AZURE DevOps Cloud**,** CI/CD, Jenkins |
| **Containerization Tools**: | Kubernetes, AKS, Docker, HELM, Rafay |
| **Infrastructure as a code (IAC)** | Terraform, Ansible, ARM Templates |
| **Azure Services:** | Azure Services (AAD, RABC, APIM, VM’s, VMSS, Key Vaults, App Service, ACR, Data Factory, Storage Accounts, Application Gateway, Azure SQL, DNS, Load Balancer, Virtual Networks, NSG, Cloud Shell, Redis Cache, Logic App) |
| **Languages/Scripting:** | PowerShell, C#, JSON, HTML, Shell, Java, Bash, SQL, KQL |
| **VCS :** | Git, GitHub, Jira, VSTS/TFS. |
| **Databases:** | MS SQL 2014/2012/2008 R2/2008, Azure SQL, Oracle, MS-Access. |
| **Operating System**: | Red Hat, Ubuntu, Windows, CentOS |
| **Monitoring Tools**: | AppInsights, Prometheus and Grafana, Splunk, Log Analytics |
| **Other Tools:** | RabbitMQ, Confluence, SonarQube, JFrog |

**EDUCATION:**

* Bachelor of Science: Mathematics, Aditya Women’s Degree College, Andhra University, India, 2008
* Master of Science: Computer Science, GIET, Jawaharlal Nehru Technological University, India, 2011

**PROFESSIONAL EXPERIENCE**

**PwC (PricewaterhouseCoopers), Houston, TX Nov 21 – Till Date**

**Sr. Azure DevOps Engineer**

**Project description:** BAO-Tx-Assurance

**Responsibilities:**

* Worked on Microservices for Continuous Delivery environment using Azure, Docker. Involved in setting up a Microservice architecture for application development and implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Working knowledge in deploying CI/CD system using Azure DevOps on Kubernetes container environment, and for the runtime environment of CI/CD system to build, test and Deployment we have utilized Kubernetes and Docker.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, Config Maps, and deployments. Development of automation of Kubernetes clusters with Ansible, writing playbooks.
* Experience in creating the Helm Charts and by using this deploy the Kubernetes components into Clusters in different environments.
* Experience in Setting up Continuous Integration (CI) by configuring Build, Code, Deploy and test automation Jobs in Jenkins for different applications.
* Configure helm charts to deploy the microservices to all environments.
* Hands on experience with scripting languages to automate the functionality in Azure DevOps YAML pipelines.
* Worked with Version Control, Build & Release Management and Deployments of the Solutions to the DEV, QA & PROD Environments leveraging Azure DevOps/VSTS principles/process (CI/CD) and toolsets of Visual Studio, AKS (Azure Kubernetes Service), Application Insights, Log Analytics.
* Experience with Terraform to Design and automate the AZURE Infrastructure as a Service (IaaS) and Platform as a Service (PaaS), SaaS capabilities which includes virtual machine, container services, virtual network and cloud services.
* Developed and maintained Continuous Integration (CI) using tools in Azure DevOps (VSTS) spanning multiple environments, enabling teams to safely deploy code in Rafay clusters using YAML scripts.
* Debugged and resolved development/Performance/Production critical Application/ Web Server issues using logs and monitoring tools.
* Developed and designed Azure DevOps pipeline to manage the resources across multiple subscription in Azure.
* Integrating the PODs with Azure Key Vault to fetch the sensitive information (Username, Password, and connection strings) and removing them from the code.
* Setting up and maintaining Azure container registries and integrate with AKS and Azure DevOps pipelines.
* Ability to communicate effectively with all levels of management and the technical community.
* Worked closely with various teams like project management, development, Automation testing and production team to align project deliverables, dates, and report issues/concerns.
* Worked with Azure Monitoring tools such as Azure Log Analytics, Application Insights and Azure Service Health to diagnose and minimize service degradation.
* Load Balanced by writing Service Configuration Files using YAML scripting and stored files in GIT.
* Creating knowledge base articles for the new/existing issues and work around for the known issues.
* Experience in writing the KQL queries for setup alerts in Log Analytics workspace.
* Capacity analysis, Building and maintaining application servers, (Virtual servers and Containers) for Frontline applications.
* Experience in JIRA for ticketing and as well as defect tracking system and configure various workflows, customizations and plug-ins for JIRA bug/issue tracker, integrated ADO with JIRA.
* Support day-to-day activities such as helping application teams in platform related build issues, keeping healthy state of all tools and platforms.

**Environment**: Azure DevOps, Rafay, JFrog Artifactory, Kubernetes Services, HELM charts, GIT, Bash, Prometheus, Grafana, Terraform, Git, Azure Boards, Quick Base, KQL, SonarQube, RabbitMQ, PowerShell, VSTS, Visual Studio Code, Nginx, Linux, Windows servers.

**Halliburton Inc., Houston, TX June 20 – Oct 21**

**Azure DevOps Engineer**

**Project description:** Wireline

**Responsibilities:**

* Setting up Azure Kubernetes service (AKS) cluster for all the environments.
* Setting up Application Gateway and integrate with AKS Cluster utilizing Application Gateway Ingress controller (AGIC) for load balancing.
* Setting up, maintaining SQL Managed instances in Azure, and creating Databases.
* Setting up and maintaining API management services (APIM) to manage all APIs across all the environments.
* Implemented Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker Container registry and then deployed to Kubernetes, Created Pods and managed using AKS.
* Working with Terraform to manage Azure Applications, maintaining the State files to see the status of every running infrastructure.
* Developed Terraform scripts and custom modules in ADO and encrypted the data using Vault and maintained role-based access control by using Terraform and implemented IT orchestration to run tasks in a sequence which can work on different servers.
* Managed Azure Container Registry to store private Docker images, which are deployed and Azure pipelines to build, test, and deployments. Azure Monitor to collect metrics and logs. Configured Monitor to track performance and maintain security, and used Splunk tool to collect metrics, queries.
* Configure helm charts to deploy the microservices to all environments.
* Involved in JIRA as defect tracking system and configure various workflows, customizations, and plugins for Jira bug/issue tracker integrated Jenkins with Jira, Azure Repos GIT.
* Developed Build and Deployment Scripts using build tools MS Build, Maven in Jenkins to migrate from one environment to another environment and utilized Nexus, Maven, SonarQube.
* Onboarding new Azure CI/CD pipelines, creating helm charts and deploying into all environments.
* Define and set best practices for code management, build, deploy and release across multiple teams/products in CI /CD model on Azure DevOps.
* Setting up build and deploy pipeline (CI/CD) failure alerts and fixing the pipelines upon failure.
* Worked with container orchestration tools and concepts like Docker Engine and Kubernetes.
* Configured applications that run multi-container Docker applications by utilizing the Docker-Compose tool, which uses a file, configured in YAML format.
* Utilizing Terraform to automate spinning up various Azure services (Infrastructure as code).
* Deployed an Azure Databricks workspace to an existing virtual network that has private subnets and properly configured network security groups.
* Deployed the Azure Data Factory pipelines in all the environments using the ARM templates.
* Setting up Key Cloak for authenticating the users to access the applications.
* Setting up corn jobs as PODs in AKS clusters.
* Automated Installation and configuration of servers and supported implementations of RabbitMQ message servers running Linux and Windows server.
* Experience on writing JSON and YAML scripts to deploy AZURE Services using Cloud Formation
* Experience using and implementing Application Performance Management Tool Log Analytics.
* Setting up AppInsights and integrating with various microservices for the Logs monitoring.
* Setting up VNET peering, private IPs, VPN set up for securing microservices and various Azure services.

**Environment**: Azure DevOps, AKS, Kubernetes, HELM, GIT, Bash, Prometheus, Grafana, Log Analytics Workspace, Terraform, ADF, Azure Databricks, Git, JIRA, SonarQube, RabbitMQ, PowerShell, VSTS, Visual Studio Code, Tomcat, Nginx, Linux, Windows servers.

**T-Mobile US Inc. Bothell, WA Oct 18 - May 20**

**Azure DevOps Engineer**

**Project description:** Frontline- Retail stores

**Responsibilities:**

* Plan, support, deploy code deployment/fixes, database and configuration changes to production and dev and QA environments using Azure pipelines.
* Configuring, managing, and administrating the Azure Kubernetes cluster (AKS) running on Linux worker nodes.
* Administrating and troubleshooting the Kubernetes cluster, pod failures and analyzing the logs and come up with solutions.
* Configuring Continuous Integration (CI) pipelines to create and push the docker images to antifactory.
* Enhance the architecture of current CI/CD pipeline to support robust parallel deployment of Applications and Database scripts.
* Enhance the legacy CI/CD architecture to reduce the deployment time for applications and databases.
* Working with Development teams to move applications from monolithic architecture to micro services architecture and run them on Kubernetes cluster.
* Troubleshooting and triaging the production incidents and coming up with the fixes for the business continuity.
* Working with Ansible to manage Web Applications, Config Files for running playbooks stream in real-time and amazed to see the status of every running job without any further reloads.
* Developed Ansible playbooks, inventories, and custom playbooks in YAML, and encrypted the data using Ansible Vault and maintained role-based access control by using Ansible and implemented IT orchestration to run tasks in a sequence which can work on different servers.
* Collaborating with compliance teams to make sure all the applications are SOX and PCI\_DSS compliant.
* Implemented CI /CD pipeline using Azure Data Factory with ARM templates and integrated VSTS with GIT.
* Collaborated closely with product development teams and other stakeholders for production incidents and coming up with solutions.
* Working closely with various stakeholders to document the new solutions and enhancements.
* Provided continued maintenance and development of bug fixes and patch sets for existing web applications.
* Impact analysis and working with various stakeholders for future avoidance.
* Automating the repetitive tasks to minimize the manual effort.
* Perform analysis of the Supported Applications for performance bottlenecks and security vulnerabilities with server patches/upgrades.
* Supported in planning and deploying business critical projects and device launches.
* Providing 24\*7 on call support.
* Creating production incidents, open issues reports.

**Environment**: Azure DevOps, ARM Templets, AKS, Kubernetes, YAML, HELM, Ubuntu, Microsoft SQL Server, Microsoft Visual Studio Code, IAM, JSON, Shell, Azure AD, Azure Data Factory, Kubernetes, Python, Ruby, XML, Shell Scripting, PowerShell, Git, Jira, GitHub, Ansible, Docker, Windows Server, Nagios.

**Microsoft Corp, Redmond, WA April 17 - Sept 18**

**DevOps Engineer**

**Project description:** Order Management

**Responsibilities:**

* Working on Configuration change requests from Business and Solution Delivery teams like on boarding new Countries, SKUs, Stores, Promo codes, Vouchers, VAT rates in UAT environments, validating and pushing to production.
* Working with Solution Managers to gather the requirements of the change requests and do the feasibility analysis.
* Supporting Production releases, Sprints in Production and Production on-boarding Environments.
* Troubleshoot and fixing the production issues and deploying the fixes to production.
* Supporting UAT and Production on-boarding environment testing.
* Working with Tier 2 teams on Certificate and Service Account Password renewals.
* Acting as an offshore SME for various web applications and helping team in configuration requests.
* Creating knowledge base articles and transitioning to fellow team members.
* Providing reports on Demand.

**Environment**: Power Shell, Java Script, SVN, GIT, ANT, SVN, ALM, Artifactory, RHEL, Solaris, Tomcat, Unix/Linux, Shell scripting, SQL, LDAP, TFS, Rally, Agile.

**CIGNA, India Mar 13 – July 15**

**DevOps Engineer**

**Project description:** Online Experience Programming & Incentives

**Responsibilities:**

* Troubleshooting and triaging the production incidents, impact analysis and performing code and data fixes.
* Creating Build and Deploy pipelines and maintaining the logs.
* Plan, support, deploy code deployment/fixes, database and configuration changes to production and dev and QA environments using TFS pipeline On-premises.
* Supported highly impacted incidents, which involved in millions of dollars and delivered successfully.
* Applied working knowledge of incident management process to collate and analyze incident details, check in Known Error Database/Knowledge Base for workaround/ solution / status / ops-service manual and assess impact of incident and take steps in order to close the incident as per SLA's.
* Collaborated closely with product development teams and other stakeholders for production incidents, tool enhancements for better customer experience.
* Automating the repetitive tasks to minimize the manual effort.
* Working with Solution Managers to gather the requirements of the change requests and do the feasibility analysis.
* Supporting UAT and Production on-boarding environment testing.
* Maintenance activities such as database backups, replication, mirroring, monitoring of servers and all its services, monitoring jobs, and troubleshooting job failures.
* Creating knowledge base articles for the new/existing issues and work around for the known issues.
* Build reports for business users by developing relevant complex SQL queries.
* Maintenance activities such as database backups, replication, mirroring, monitoring of servers and all its services, monitoring jobs, and troubleshooting job failures.

**Environment:** Power Shell, Java Script, SVN, GIT, ANT, SVN, ALM, Artifactory, RHEL, Solaris, Tomcat, Unix/Linux, Shell scripting, SQL, LDAP, TFS, Rally, Agile.

**UnitedHealth Group, India May 12 - Feb 13**

**Automation Engineer**

**Project description:** Optum Health Reporting & Insights

**Responsibilities:**

* Analyzing business requirement in order to determine the test strategy covered by automation testing.
* Created Load Runner scenarios or Vugen test scripts and Customized, correlated, parameterized the scripts for load test.
* Developing new test scripts are roles and responsibilities of selenium automation test engineer.
* Maintaining existing tests scripts/regression suites and Updating Framework functions when needed.
* Attending Agile meetings (Daily scrum meeting/Sprint planning/Backlog refinement) on assigned projects.
* Created Functional, Integration and Performance Test scripts using JMeter HTTP Requests and REST Samplers for Redbox Instant proxy, which extensively use HTTP (GET, POST) methods.
* Performed integration testing for web services, check the back-end logs to find issues in integrated web service calls and report the issues to develop team.
* Monitored Different kinds of Graphs like Throughput, Hits/Sec, Transaction Response time, Windows Resources Memory Utilization, CPU Utilization, Threads while executing the scripts from LoadRunner Controller.
* Analyzed the results of load testing and Performance Testing by using Analysis tool and identified the Server issues/bottlenecks in the system.
* Performed Baseline, load, Stress and Endurance (Soak) Testing by simulating multiple users using Load Runner.

**Environment:** HP Load Runner, Performance Center, Quality Center, ALM, LDAP, SoapUI, Rest API, Rally, Agile, C#, MS Excel, Web service, HTTP/XML, Linux, Java.