PARTHASARATHI THK

AZURE DEVOPS ENGINEER

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PROFILE

I am a strong, skillful, and self-organized DevOps engineer with 3 years experience of developing infrastructure-related components platform, optimizing the existing environments. Have strong scripting knowledge. Good understanding of Infrastructure-as-a-Code concepts.

SKILLS

- Azure Cloud administration
- Azure DevOps
- Docker
- Kubernetes
- Terraform
- Ansible
- Shell scripting
- Linux , Windows Platforms

STRENGTHS AND EXPERTISE

- Having 12 years of professional IT experience in analysis, design, implementation, and support
- Having 3+ years of experience as a Azure DevOps Engineer.
- Proficient in Administrating **Azure IaaS/PaaS** services like compute **Azure Virtual Machines,** Web and Worker roles**, VNET, Network services, Azure DevOps, Storages, Azure Active Directory, Monitoring, Autoscaling, DNS and VPN.**
- Creating and managing users with restricted permissions using **Azure AD** at **Resource group, Subscription** and **Resource** levels.
- Experience in **Azure IaaS - Virtual machines, VM Scale Sets, Load Balancer, Traffic Manager, Virtual Networks, SQL, Resource Groups** and **Cloud Services**.
- Extensive involvement in **Azure Backup, Azure Policies, Azure Key Vault** and **Tagging.**
- Designing and implementing Azure Solutions across a range of cloud models like **SaaS, PaaS, IaaS** and integrated on-premises and on-demand workloads with the **Azure public cloud**
- Worked with **Version Control, Build & Release Management** and **Deployments** of the Solutions to the DEV, QA & PROD Developed and designed **Azure DevOps** pipeline to manage the resources across multiple subscription in Azure.
- Worked on **Terraform** templates also for provisioning **virtual networks, subnets, VM Scale sets, Load balancers,** and **NAT** rules and used terraform graph to visualize execution plan using the graph command.
- Integrated **Ansible** with **Azure release pipelines** to provide automation, continuous integration & Continuous Deployment and wrote Playbooks to automate Ansible servers using **YAML** scripting.
- Integrated **Docker container** orchestration framework using **Kubernetes** by creating pods, Config Maps, and deployments. Development of automation of Kubernetes clusters with **Ansible.**
- Deployed Kubernetes Clusters on cloud/on-premises environments with master/minion architecture and wrote many YAML files to create many services like **pods, deployments, auto scaling, load balancers, labels, health checks** etc.
- Developed **GIT** hooks for the local repository, code commit and remote repository, code push functionality and on **GitHub** and **Azure Artifactory.**

- 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.
- Used Azure DevOps services such as **Azure Repos, Azure Boards** and **Azure Test Plans** to plan work and collaborate on code development, built and deployed application.
- General Administration of Linux installation, Users Creation, Group Creation, Permissions and package management using **YUM** and **RPM**.

PROFESSIONAL EXPERIENCE

Azure DevOps Engineer   **August 2022 - Present**

Cognizant

Project Name : Centene health care support
Client : Centene, USA

Accomplishments:

- Creating and managing users with restricted permissions using **Azure AD at resource group, subscription** and **resource** levels.
- Involved in creating **Virtual machines, VM Scale Sets, Load Balancer, Traffic Manager, Virtual Networks, SQL, Resource Groups** and **Cloud Services** using **Terraform** modules.
- Involved in building **azure release** and **build pipelines** to provide automation, continuous integration & Continuous Deployment and wrote Playbooks to automate Ansible servers using **YAML** scripting.
- Involved in creating infrastructure for DEV and UAT environments using terraform modules.
- Involved in **Docker** container framework using **Kubernetes** by creating **pods, deployments, services, namespaces, network management** and **storage management** as per the requirement.
- Troubleshooting day to day application performance and connection issues.
- Supported **Linux monthly patching activities** in all the Prod, UAT and DEV environments.
- Experience in **service now** ticketing tool to handle client requests.
- Experience in configuring Azure pipelines in **Azure devOps** using **sonarcloud** and **White Source Bolt(Mend Bolt)** scan validations.
- Involved in building Docker files for various applications and monitoring the docker clusters.
- Created **Multistage Docker files**, building **custom images** based on the requirements.
- Collaborated with development teams to implement professional DevOps practices such as source control management, build processes, and continuous integration and delivery.

Azure DevOps Engineer   **July 2020 - June 2022**

Cognizant

Project Name : Anthem health care support
Client   : Anthem, USA

Accomplishments:

- creating Azure devops pipelines for **.Net/Java applications** and **Azure Data Lake**.
- Managing day to day activity of the cloud environment, supporting development teams with their requirements.
- Troubleshooting Azure related issues and engage internal teams and vendor for issue resolutions.
- Creating and managing **networking** and **storage concepts** on Azure
- Handling day to day service deployments

- Taking **backups of Azure disks, file level** and **folder level**.
- Creating and managing availability **scale sets, auto scaling, load balancer** as per the project requirement.
- Created infrastructure as a code environment using **terraform** modules.
- Developed and maintained Continuous Integration (CI) using tools in **Azure DevOps (VSTS)** spanning multiple environments, enabling teams to safely deploy code in **Azure Kubernetes Services (AKS)** using **YAML** scripts.
- Involved in building **Docker files** for various applications and monitoring the docker clusters.

Hadoop Administrator   **July 2018 - July 2020**

Genisys

Project Name : IACS support
Client   : Truata -Ireland, Ascena Retail, Marriott international- USA

Accomplishments:

- Involved in user creation in HDFS and provide permissions using Ranger
- Involved in managing the encryption zones and permissions using Ranger KMS.
- Involved in cross realm setup between two kerberized clusters.
- Upgraded HDP clusters from the version 2.5.3 to 2.6.5.
- Kerberos administration to the Users.
- Troubleshooting day to day performance and connection issues.
- Involved space related issues in the unix servers.
- Installed and reconfigured Zeppelin services in the clusters.
- Experience in Sales force ticketing tool and monitoring tools like Pager Duty and New Relic.

Hadoop Administrator   **March 2015 - Feb 2018**

DXC technology

Project Name : Daimler AG
Client   : Daimler, Germany

Accomplishments:

- Involved in ambari cluster installation and configuration.
- Installed and configured hadoop ecosystem tools Sqoop, Hive, Pig, HBase, Zookeeper, oozie andSpark.
- Installed and configured Kerberos secutiry authentication.
- Configured various property files like core¬site.xml, hdfs¬site.xml, mapred¬site.xml based upon the job requirement.
- Installed and configured RANGER security authentication for users to Hadoop components.
- Installed and configured Apache KAFKA messaging cluster.
- Handling YARN, hive, Hbase, Sqoop, pig and oozie and Spark jobs, Mongo DB monitoring and performance tuning.
- Monitoring Ambari cluster health and HDFS space for better performance
- Handling Ganglia & Nagios alerts to handle CPU, Memory, Storage and Network
- Install Hadoop patches and version upgrades when required.
- Importing and exporting data into HDFS using Sqoop.
- Involving in Analyzing system failures, identifying root causes, and recommended course of actions. Documented the systems processes and procedures for future references.
- Taking backup of HDFS data using snapshots and Distcp.
- Working together with infrastructure, network and application teams to guarantee high data quality and availability.
- Decommissioning and commissioning the data nodes on running hadoop cluster.

Tibco Administrator   **July 2011 - Feb 2015**

Hewlett Packard Enterprise

Project Name : Conway Middleware Suport
Client   : Conway, USA

Accomplishments:

- Creation of domain, Installation of Tibco softwares
- Implemented business logic by using different types of steps in BE
- Designed and developed various Business Works processes to implement SOA service.
- Configuration of topics and queues, routes, bridges.
- Checking the logs for audits, errors.
- Deployed business processes in Tibco Administrator.
- Deployed the applications in Unix environment using scripting.
- Monitor the Logs in Server, bounce the Applications in Unix Environment
- Involved in prepare health check reports for all the environments of applications from all the servers.
- Monitor the alerts of hawk and work upon the issues.
- Involved in writing hawk rules for Production Applications and for EMS queues.
- Involved in Development. Pre-production and Production application Priority issues and provide solutions
- Having good experience on ticketing tool BMC Remedy incident Management, change management and problem management.

EDUCATION

Master of Science from SVU University