**Pavan Kumar**

**Kubernetes Engineer**

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**CAREER OBJECTIVE**

Having 7+ years of experience in Building, Managing, Implementing and administration of Kubernetes, Virtualization like Public cloud Microsoft Azure and Various heterogeneous Windows Operating systems. Have extensive knowledge on multiple flavors of Windows Operating Systems administration and Scripting knowledge. Excellent knowledge In ITIL process.

**SUMMARY**

* Expertise in installing Kubernetes distribution like opensource/OpenShift/Rancher.
* Expertise in deploying applications using helm chart.
* Troubleshooting deployments/pods/containers in error state.
* Managing monitoring and logging using various tools like Prometheus, Grafana, ELK and Splunk.
* Had experience in deploying/configure/manage THANOS For ELK extensive storage.
* Hands on experience in upgrading Kubernetes cluster.
* Expertise in taking backups and restore.
* Very good experience with Azure Services (IAAS, PAAS & SAAS).
* Automating in azure for creation of subscription, Storage Account using Windows Power Shell.
* proficiency with the Go testing package's built-in testing framework for creating unit, benchmark, and integration tests.
* capable of profiling and benchmarking Go code to find performance bottlenecks and improve key areas.
* DevOps and deployment familiarity in implementing Go programs in production settings, including orchestration with Kubernetes and containerization with Docker.
familiarity with Jenkins, GitLab CI/CD, or GitHub Actions tools for continuous integration and deployment (CI/CD) pipelines.
* Hands- on General purpose and BLOB’S Storage and Security, storage a/c and end points.
* Knowledge on TABLES, QUEUES and FILE Storage.
* Hands on Experience in AZ copy using power shell.
* Hands on creating Network Security Groups and Network interface cards.
* Good Experience on Building of Availability Sets and Auto scaling.
* Placing Virtual Machines in VM Scale set for Auto scaling and high Availability.
* Knowledge on creating cross premises connectivity through Express Route.
* Strong experience with Go to write scalable and effective programs.
* knowledge of creating Go-based apps and microservices that use channels and goroutines for concurrency. Thorough knowledge of the standard library in Go as well as recommended procedures for testing, documenting, and addressing errors.
* Having Exp to automate infrastructure using ARM Templates and Terraform
* Good experience in Version controlling System like GIT.
* Deploying infrastructure using ARM templates and deploying them using Azure DevOps Pipelines.
* Creating a website using management portal and from gallery, in portal also.

**CORE SKILLS**

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| --- | --- |
| **DevOps** | Kubernetes, Rancher, RKE, Docker, GIT, Jenkins, helm, GitHub, Gitlab, Bitbucket, Docker HUB, ACR. |
| **Monitoring** | Prometheus, Alert manager, Grafana, ELFK, |
| **Messaging tools** | Kafka with CCC (confluent control center) and RabbitMQ |
| **Logging** | Elasticsearch, file beat, metrics beat and Kibana. |
| **Storage** |  NFS, Longhorn. |
| **Hadoop Admin** |  Ambari, Cloudera Manager |
| **Hadoop Ecosystems** | HDFS, YARN, MapReduce, Hive, HBase, Zookeeper, Ranger,  Oozie, Spark, Sqoop, Flume, Rangers, Knox, Zeppelin Notebook, Kafka, NIFIDruid. |
| **Hadoop Distributions**  |  Hortonworks, Cloudera |
| **Ticketing tools** | JIRA, ITSM, CLICKIT, AZURE DEVOPS, SERVICE NOW. |
| **Web technologies**  |  Html, CSS, JSP, Servlets, JavaScript, JDBC. |
| **Languages** |  C, Java, SQL, Hibernate, Scala |
| **Operating Systems** |  UNIX, Linux, Windows |
| **Web servers**  | Apache Tomcat, Glassfish |
| **IDE /GUI Tools**  | Eclipse, Net Beans. |
| **Security** | Kerberos, Ranger & Knox |

**PROFESSIONAL EXPERIENCE**

**Client: Tracfone Wireless**

**Role:** **Kubernetes Engineer March 2022 - Till date**

* Install, develop, deploy, and maintain various Kubernetes clusters like opensource/ OpenShift/ Rancher and applications.
* Monitor and troubleshoot Kubernetes clusters using K8's UI and OpenShift/rancher and applications monitoring using Prometheus/Grafana
* Automate deployment and scaling of Kubernetes clusters and applications using GitHub action runners and HPA.
* Involved in implementing CI/CD pipelines for Kubernetes applications on k8's platform.
* Implement and maintain RBAC security policies for Kubernetes clusters and applications.
* Develop and maintain Kubernetes-based infrastructure as code.
* Deploy, Develop, and maintain Kubernetes-based monitoring and logging solutions like Prometheus/Grafana and Splunk/ELKF-Elasticsearch, Logstash, Kibana, file beat.
* Deploy, Develop and managing Kubernetes-based backups like (ETCD, PVC) and disaster recovery solutions using ARC.
* Deploying and maintain Kubernetes-based networking solutions using ISTIOS service mesh.
* Deploying, Develop and Maintaining Kubernetes-based storage solutions like NFS, LONGHORN & Filesystem, Thanos.
* Creating and maintain Kubernetes-based autoscaling solutions using Horizontal Pod Autoscaling for deployments.
* Develop and maintain Kubernetes-based service mesh solutions.
* Expertise in deploying database Applications like MySQL, Cassandra, MariaDB, PostgreSQL, Mongo db.
* Expertise in deploying applications like KAFKA, Jenkins, TOMCAT, RabbitMQ, Splunk, ELK.
* Expertise in deploying and managing Data Engineering tools like Hadoop, Spark etc.

**Client: Trinesis Technologies**

**Role: Azure Engineer June 2019 - Nov 2021**

* Using Azure resource Manager features via the Azure portal and Use Azure Power shell to manage Azure services and subscriptions.
* Creating and Configuring Azure virtual network by using a deployment template and by using Power shell.
* Configuring a point-to-site VPN and validating virtual network Connectivity.
* Created Build and Release Definition for Continuous Integration and Continuous Deployment.
* Configure CI/CD pipelines using Azure Dev-ops.
* Creating Azure Boards and Repose.
* Using Visual Studio and Azure Power shell and Azure Resource Manager template to deploy virtual machines.
* Transfer data from one storage A/c to another storage a/c and on premises using cloudberry explorer.
* Implementing desired state configuration and storage space-volumes and Availability of virtual machines.
* Creating End Points and Choosing Protocols & Managing Accesses Control List.
* Creating, Deploying and Managing Web apps and Implementing Traffic Manager.
* Improving web Application performance by Implementing Azure content delivery network.
* Creating and Configuring Azure storage by using File storage and protecting data by Backup and Site Recovery.
* Storage will be accessed using power shell, transferring files &Vhds from one account to another by Az copy, and also by using Azure storage Explorer.
* Deploying and Monitoring Pass cloud services and hosting Web app, Websites by Auto scaling them and having control over them.
* Configuring deployment slots and Remote Desktop Protocol and Creating Web Role and Worker Role.
* Lead in the design and management of Active directory including Organizational Unit (OU), Group, and User related tasks.
* Administrating   Azure AD and Configuring SSO, Multi-factor Authentication and SSO from a Windows 10 based computer that is joined to Azure AD.
* Extending an on- premises Active Directory Domain to Azure   IAAS.
* Perform Security Health Check and ongoing monitoring of Windows servers and other compliance.
* Create CDN & Integrate with Storage Account and Accesses CDN Content.
* Create Replication Policy and manage it & Create Site Recovery Manager Hyper-V to Azure.

**Client: AT & T**

**Role: Azure Engineer April 2015-May 2019**

* Understanding the client requirement and working on the solution in Azure.
* Creating& Connecting VM’s, Installing IIS, building NSG’s.
* Creating a New VM From an Existing OS Disk and Attaching a Data disk to an Existing VM
* Increasing the application uptime by ensuring the cloud infrastructure availability.
* Creation of Storage Account, &Endpoints, Changing and configuring them.
* Creating Azure VMs by Our Customized Images like Generalized and Specialized Images.
* Working on the issues reported in monitoring system Using OMS.
* Cross Premises Connectivity in Azure Resource Manager Model.
* Windows OS and application patching on the on-premises and cloud computer on regular basis with WSUS.
* Service pack upgraded to maintain latest patch level.
* Deploying virtual machines, Virtual networks (V net), storage services base on the requirement.
* Creating Load balancer and Traffic Manager, and Internal Load balancer.
* Managing Azure subscriptions.
* Creating Web App & App Service and Configuring Its Settings and Applications.
* Automating daily roles and responsibilities with Power Shell.
* Monitoring Site-to-Site VPN connectivity between on-premises and cloud.
* Creating Gateway Subnets &Upload Root Certificates, VPN Gateways &VPN Connections.
* Hosting websites and web applications in Azure.
* Providing Application accesses to Users in Azure Active Directory
* Knowledge on Azure Migration with Azure Site Recovery by configuring mobility services.
* Knowledge on various ways of migrating VM from on premises to azure, Azure to Azure