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Professional Summary:

Senior DevOps and Automate Cloud Engineer with 6 year 8 months of work experience on Deployment, Administering and Supporting the OpenShift & Kubernetes Container Platform ecosystem in cloud and baremetal Infrastructure. I've work directly with infrastructure as configuration-based automation to manage overall platform.

I've a strong background in Linux, virtualization(VMware), Networking and VAPT security and ORAN technology application development lifecycles and practical experience on continuous integration and deployment. I'm quick and self-learner; I have a slight inclination towards following the current and emerging trends in technology in the IT industry.

Professional Experience:

Organization	Role	Industry-Type	Duration
Plexus Networks	Linux Administrator	IT-Server Maintenance	01-05-2016 - 17-03-2020
Oasys.co	Sr-Linux Administrator	IT-Infra (Production)	17-03-2020 - 30-08-2021.
Infinite	Sr-System Administrator (Cloud Engineer)	NFVI (E2E)	23-09-2021 - Ongoing

- Areas of Expertise -

- ★ Openshift and Kubernetes, Tanzu Kubernetes, Docker, Docker-compose, Docker-swarm
- ★ Automate Deployment for DevOps Integration and configuration management like Ansible and Jenkins, Git, Gitlab
- ★ VMWare Telco Cloud Platform
- ★ Red Hat Virtualization, Vagrant
- ★ Application Server JBOSS, Apache Tomcat (Standalone and cluster)
- ★ Security and penetration testing with various Open Source and Enterprise Software's
- ★ Automate with BASH Shell Script to day to date activities
- ★ Storage (GFS), ISCSI, NFS, CIFS, Ceph , LocalStorage
- ★ Centralized Server Management tools
- ★ Very good experience on Linux/Unix administration and moderate to significant experience administering relational databases such as MySQL, PostgreSQL, etc.

Roles & Responsibilities:

- Deployment, Optimize, Secure, Administration, Technical and Operational support for all Datacenter and cloud environment
- Strong Openshift/Kubernetes deployment working knowledge
- Strong background on VMware TCP and TKG Cluster

- Build tools and automation to manage the clusters and components
- Implementing and managing systems to proactively monitor infrastructure.
- Measure and optimize platform performance and resource utilization, and plan for future capacity
- Building dashboards and visualizations to graph for platform health statistics
- Define system alerts and triggers automate responses wherever possible in cluster level
- Gather and analyze metrics from cluster components and services to assist in performance tuning and fault tolerance
- Perform ROOT Cause Analysis(RCA) of Issues in a complex technical environment that includes external Endpoint, Databases and Technical guidance to developer and support team.
- Research and integrate solutions using new trending technology
- proactive approach to spotting problems, areas for improvement, and performance bottlenecks
- Perform Security level activities including creating logins/users, assigning roles-permissions etc.
- Monitoring and clear System Resource Utilization Such as “CPU, Memory, Hard Disk, Network etc.” Using Management tools like Nagios, Wireshark and Native Linux Commands to improve system performance.
- Assign and monitor the priority level to the aspect process.
- Managing jobs and troubleshooting issues in centralized job scheduler
- Running the cron jobs for daily basis Incremental backup using rsync
- Creating and Managing file systems
- Performing administrative tasks remotely by SSH, telnet.
- Good Experience working on ansible, shell to manage day to date activities
- Using configuration Management to achieve production activities
- Handling MySQL database & caching software Redis
- Handling Nginx for reverse proxy, static caching, rate limiting, queueing, security enhancement etc.
- Troubleshooting system level issues in enterprise applications hosted in Application servers
- Implement processes/scripts to monitor Disk/file system size, health checks, etc.
- Create Linux partitions and assign local file systems with various method
- Installing and Configuring Logical Volume Manager (LVM)
- Accessing the Local File system using Mount Operation
- Installing and configuring Enterprise Based on Linux Servers for as per customer requirements
- Maintaining TCP/IP Related Issues for Network (IPv4)
- Installing, Updating, Querying and Removing the packages using (RPM, YUM , APT-GET,DPKG and DNF).
- Familiar with user addition, removing the Local users, migrating users and assigning permissions as per the requirement
- Backup & Restore utility handled by ln, tar, gzip, xz and bzip2 commands
- Explain technical issues to other teams to provide solution
- Research and write technical documents to improve the performance and uptime of current system

Technical Skills

Openshift and Kubernetes, Docker:

- Deploy OCP cluster (3.5-4.10) with various installation method
- Configure (adding, Remove) cluster nodes
- Create user's, groups and roles allowed to perform restricted resources
- Create, Edit and Manage OpenShift/Kubernetes resources and Objects
- Install and Managing CRD on OCP
- Create and Manage multiple network policy (ipvlan, macvlan, sriov) for Pass-through mechanisms
- Configure CPU Pinning, NUMA and performance add-on depends upon the application high performance
- Deploying Kubernetes HA Cluster on various platform (Cloud, Datacenter, VMWare)
- Create pods and scale their applications using Kubernetes cluster resources
- Apply services, deployments and pods to manage cluster resources
- Auto-scaling and resource optimization
- Good experience on Internal/External load balancers to achieve external communication
- Strong experience in distributed storage NFS, iscsi, S3, Cluster Storage, OCS .ODF
- Creating and managing Image registries and pull secret (Private and Public)
- Restricted resources by project level
- Experience with high availability, disaster recovery, and load balancer
- Configuring dashboard UI to easy way accessing for Kubernetes and Openshift Cluster components
- Continuous Integration and Delivery, Configuration/Change Management.
- Install and Configure Container platform (Docker, Docker-compose, Docker-swarm)
- Managing the life cycle of Docker container from creation to deletion
- Manage the container app data store persistently use shared and local Storage
- Managing Containerized images to remote registry and Docker-hub(Import and Export)
- Creating Custom Container images using multiple way approaches
- Defining and running multi-container application with help of Docker-compose
- Configured cluster orchestration by Docker-swarm

Automation with Ansible, Jenkins, Git, Gitlab :

- Experience with supporting and automating infrastructure with configuration Management
- Install and configure a Control node and Manage nodes
- Writing infrastructure Roles and writing Dynamic host inventories to avoid the overhead of repeated tasks
- Running ad-hoc commands to quickly finish the day by day jobs
- Manage and Running different tasks through playbook use selected Inventory nodes
- Basic working knowledge on Ansible Tower for easy management
- Build and test software application project continuously make it easier for developers to integrate

VMWare Telco Cloud Platform:

- Install and setup the VMware Esxi on Various method
- Deploy vCenter Server appliance on an ESXi host

- Connect and Manage to vCenter Server from the vSphere Client
- Create and manage VSAN and VMotion
- Create DVS and DVPG for managing the Network
- Configure Harbor for offline image artifactory
- Create and manage Logging and security
- Configure virtual environment for various platform integration
- Configure Air Gap server for offline deployment
- Deploy and manage CaaS infrastructure for different work locations
- Create and manage catalog function
- Integrate multiple cloud platform into TCP platform
- Onboard CNF network function with help of various partner system
- Good exposure with working VMware Powercli and preparing scripts

Application Server with JBOSS and TOMCAT:

- Installing and configuring of EAP server and Apache Tomcat on Operating Systems
- Configure and manage EAP different operating modes (Standalone, Domain or Parent)
- Controlling and Deploy EAP server by web management console (REST API), Command Line Interface (CLI), customize configuration files in EAP7,8 Version
- Create and Configure JMS, HA CLUSTER, DATA SOURCES for two operating modes
- Troubleshooting system level issues in enterprise applications hosted in Application servers

Virtualization with RedHat, Ovirt, VmWare :

- Install and use Virtualization Manager (Engine) use Self-Hosted and Standalone Mode
- Set up Bare Metal Hypervisor and Host Hypervisor (Thin and Thick)
- Create and store virtual machine required disk images and Meta Files to Network Shared storage servers(NFS,iSCSI,GFS)
- Create and Commit Snapshot and Template from Base Virtual machine creation and create auto Customize Identical Value on VM (Sealing).
- Migration can Auto (live) and Manually (Infrastructure Level HA)
- Share the VM instance Disk Images to across datacenters
- Create and manage VM-pools and assigned to a set of users to access
- Management for VM Role based authentication.
- Configure Fencing for auto recovery node on faulty state

Server Management:

- Configuring Apache Web Server, NGINX, Apache HTTPD
- Configure the file transfer(share) services like NFS Server (with KERBEROS), FTP Server, Samba Server
- Configure and share the Block Storage server to Initiator (ISCSI) use Local Area Network
- Create and configure redis use as a database, cache, message broker
- Configure and manage messaging Queue
- Create and configure MySQL, PostgreSQL, Maria DB
- Monitoring file system Operations using aide and audit
- Tracking Security Updates of server patching
- Configure the client machines required DHCP Server

- Configuring the Domain Name Service. And managing the DNS Resource Records
- Configuring secure cache-only DNS to avoid (cache-poisoning)
- Security maintenance using the software level firewall Packet filtering (iptables, firewallld)
- Configuring forward-port and Masquerading using software firewalld
- Configuring port labeling using SELinux.
- Configuring ssh Key-based Authentication
- Configure Local Services Auto mount, NTP and crony

User Management:

- Administering user accounts, Groups and Permissions FILE, DATABASE and Application level
- Configuring administrator access to users and groups with sudo
- Product the File System Structure by ACL, Special Permission, Extended attribute
- Configuring External Network User servers such as OpenLDAP, Free IPA

Network & Troubleshooting and Monitoring:

- Knowledge of networking to trace and capture with TCP/UDP and ICMP
- Good experience on L1/L2 Network configuration
- Working knowledge on Switch, Router and Firewall
- Configuring advanced network configuration like NIC Bonding, Software Bridges and Teaming.
- OS installation from Local Media, Kick start and PXE
- Troubleshooting with File Systems Problems, booting issues, TCP/IP issues.
- Troubleshooting with SELinux policies
- Configure and setup syslog and graylog server to centralized log Management
- Using Template to monitor to all configuration from ZABBIXs
- Visualize performance statistics by Grafana with Prometheus

Centralized Server Management:

- ❖ Upgrade and Manage the multiple physical servers using centralized management tool

Education:

- Under Graduate Diploma - Computer Science in GPTC Trichy.
- BCA in Madras University - Ongoing

Personal Details:

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| Father's Name: Anandaraj P |
| Gender: Male |
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| Mobile No: +91-8870817992 |
| Date of Birth: 06-06-1996 |
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