**Sammath Loka**

DevOps / Cloud engineer

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**Summary**

* Managing Large Scale Enterprise Datacenters with core Skills revolving around Complete Linux (CentOS, RHEL, SUSE, Ubuntu) Installation, Configuration & Troubleshooting for more than 11 years. 3+ years in Amazon Web Services, Openstack, Azure, GCP.
* Experience in Openstack, cloud computing, Virtualization, Linux System Administration and Configuration Management.
* Experience in managing multiple private clouds for enterprises on Bare metal, Virtual Machines and Containers to address different project needs.
* Experience in Openstack components Neutron, Nova, Cinder, Horizon, Ceilometer, Heat, Glance and Swift.
* Expertise in upgrading Openstack releases from Kilo/Juno to Liberty and Mitaka releases.
* Experience in deploying Cloud both automatically using Fuel, Openstack Ansible and manual deployment.
* Experience in verifying Openstack environment in Docker Containers for Sanity tests before upgrading production environment.
* Experience in DevOps process using Jenkins, Ansible for On Demand Openstack deployment.
* Experience in creating/managing multiple tenants in a cloud, creating quotas, triggering alarms when certain thresholds are reached, creating network and creating/customizing heat templates.
* Expertise in troubleshooting Openstack issues from fault detection, fault isolation and resolving many key issues.
* Experienced in supporting large - scale multi-tenant infrastructure level services.
* Experience in supporting private cloud environments housing multiple tenants in multiple networks.
* Experience in managing cloud software deployments, with a focus on continuous integration and deployment using GitHub, Jenkins, and Maven.
* Setup and managed light weight Kubernetes K3s for self-healing and high availability.
* Created docker image for microservices files to orchestrate applications using Kubernetes.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers.
* Experience in developing Docker file to containerized applications to deploy on managed Kubernetes service EKS and AKS.
* Managed deployments in EKS managed Kubernetes, setup multi nodes cluster and deployed containerized applications.
* Administration of Production, Development and Test environment's carrying Windows, Ubuntu, RedHat Linux and Centos
* Experience installing, configuring, and managing Linux based systems and applications via automation and configuration management tools such as Chef and familiar with Puppet.
* Experience in professional system support and solution-based IT services for Linux OS (RHEL, Ubuntu, and CentOS), Amazon Web Services and OpenStack.
* Worked in infrastructure team on installation, configuration, and administration of RHEL 5.x/6.x/7.x/8, CentOS 5.x/6.x/7, Windows Server and SUSE Linux 10.x/11.
* Experience in Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on UNIX Red Hat Linux Systems.
* Experience in Installing Firmware Upgrades, kernel patches, systems configuration on Unix/Linux systems.
* Involved in Capacity Planning, Performance Analysts, Uptime and Response time analyst.
* Worked on Oracle Real Application Cluster (RAC)database, which provides high availability Database Solutions
* Good understanding on TCP/IP protocols and providing all Levels of systems support.
* Experience with F5 Load Balancing.
* Experience in Configuring Kick start servers to install Red Hat Linux and VMWare ESX on multiple machines.
* Worked in Production Support environment and resolution of complicated issues that arise during the process.
* Excellent understanding of Agile software development methodologies.
* Installed, configured, and administered Continuous Integration tools such as Docker and Puppet for automated builds.
* Worked on Puppet manifests files for all applications to manage the configuration files and to manage them as services.
* Integrated SVN into Ansible / Jenkins to automate the code check-out process.
* Implemented AWS Cloud platform and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation AWS Config, Autos calling, Cloud Front, IAM, S3, R53.
* Wrote Ansible Playbooks with PythonSSH as the Wrapper to Manage Configurations of Openstack Nodes and Test Playbooks on AWS instances using Python.
* Experienced in Automating, Configuring, and deploying instances on AWS, Azure and Rackspace cloud environments and Data centers, also familiar with EC2, Cloud watch, Elastic Search and managing security groups on AWS.
* Experience writing data APIs and multi-server applications to meet product needs using Golang.
* Experience in writing the HTTP RESTful Web services and SOAP API's in Golang.
* Used SVN and GIT as source code repository and involved in migrating from SVN to GIT
* Created release branches in GIT by GIT Administration including branching, reporting and assisting with project and end user support.
* Managed the GIT using Nexus tool to automate the build process and used the same to share the snapshots and releases of internal projects.
* Configured Git with Jenkins and schedule jobs using POLL SCM option.
* Involved in creating modules, manifests in Puppet using Ruby and automated various administrative tasks by creating modules and manifests on multiple servers using Puppet.
* Worked in an environment majorly involved in Infrastructure as a code (IaaC), execution plans, resource graph and change automation using Terraform. Managed GCP infrastructure as code using Terraform.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Experience in Microsoft technology development tools like Visual Studio, TFS.
* Designed and created multiple deployment strategies using Continuous Integration and Continuous Deployment Pipelines using Jenkins and Bamboo.
* Experience in deploying application using Jenkins server and Troubleshoot build and release job failures, resolve, work with engineers on resolution.
* Working experience on User management, disk quota and Job Scheduling using Crontab, at jobs.
* Proficient in hardware and software troubleshooting and problem determination/resolution.
* Experience with monitoring Splunk environment and performing health checks.
* Troubleshooting of day-to-day system and user problems including resolving issue tickets and documentation of the issues and their fixes.
* Team player with excellent interpersonal skills, self-motivated, dedicated and understanding the demands of 24/7 system maintenance and has good customer support experience.

**TECHNICAL SKILLS:**

* **Cloud Computing:** Openstack, VMWare, AWS, Containers (Docker).
* **Operating systems:** UNIX, Redhat Enterprise Linux, CentOS, Solaris, Ubuntu, Fedora, Windows.
* **Databases:** Oracle, MYSQL, MangoDB and SQL Server.
* **Server hardware:** HP DL- 360G6, HP DL -380G6, T-Series M-Series, Cisco UCS Blades B200, B250 and B440 – M1/M2/M3/M4/M5
* **CI Tools:** Jenkins Monitoring & Automation
* **Tools:** Nagios, Puppet, Chef, Ansible, Splunk, Grafana
* **Virtualization:** VMWare ESXi, KVM
* **Cluster Solutions:** Oracle RAC, VCS 4.0 & 5.0, Redhat Cluster Suite
* **Scripting language:** Bash, PowerCLI, Python
* **Networking Services:** NIS, NFS, DNS, SSH and Sendmail.
* **Ticketing Tools:** Remedy, Service Now, Trace and Jira

**EDUCATION:**

* Master’s in information system, VA, USA

**PROJECTS AND EXPERIENCE**

**Sr. Systems Engineer / DevOps & Openstack engineer March 2016 - Till Date**

**Cisco Systems Inc. RTP, NC**

**Responsibilities:**

* Experience as an Openstack administrator in creating, managing users, roles, groups, domains, services, endpoints; managing quotas, instances, snapshots, metadata, creating new images; managing and creating networks, routers, subnets, allocation pools; managing swift objects, time stamps, cinder volumes; using heat templates and troubleshooting.
* Experience in using latest Openstack versions that includes Kilo, Liberty, and testing Mitaka version to check its stability.
* Upgrading Openstack requirements from Juno, Kilo to Liberty and Liberty to Mitaka versions.
* Experience in managing multiple private clouds for Enterprises on Bare metal, Virtual Machines, Containers to address various project needs.
* Creating, managing deployment guides; Creating network connectivity and service interface for Non-Openstack components to access cloud network and creating scripts to customize flavors and quotas.
* Creating, managing multiple tenants in a cloud, creating quotas, triggering alarms when certain thresholds are reached, creating network, customizing heat templates.
* Verifying Openstack environment in Docker Containers for Sanity tests before upgrading production environment.
* Hands on experience in Openstack deployment both manual and automation installations.
* Deployed Openstack Mitaka, Liberty, Kilo, Juno releases in a multi-node environment manually.
* Deploying the Openstack components on multi-node with High availability environment.
* Provisioning and optimizing of compute, network, and storage services with Openstack through dashboard, command-line and API utilities.
* Deployed Cloud both automatically using Fuel, Openstack Ansible and manual deployment.
* Configuring the Openstack components keystone, glance, neutron, cinder, swift, Heat and ceilometer.
* Creating and managing cinder volumes.
* Worked with Client’s private cloud, created instances nova client, setting security and deploy applications and brought them into production.
* Providing customization to clients (adding metadata to tenant or a project in Keystone).
* Deployed neutron configured and managed neutron services.
* Deployed compute nova and configured nova services.
* Disabling meters that are not required to save Space by changing Ceilometer.
* Creating VM, snapshot, template and use them as the base images depending on the requirement.
* Debugging logs for understanding component failures, Identify the bugs and reporting to concerned team.
* Attending daily standup meeting, updating the status, and trying to resolve the issues faced by the team.
* Used SVN and GIT as source code repository and involved in migrating from SVN to GIT
* Created release branches in GIT by GIT Administration including branching, reporting and assisting with project and end user support.
* Managed the GIT using Nexus tool to automate the build process and used the same to share the snapshots and releases of internal projects.
* Configured Git with Jenkins and schedule jobs using POLL SCM option.
* Writing Chef cookbooks/Ansible playbooks for hot fixes.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Create, maintain Jenkins jobs, used Jenkins for continuous integration and deployment into Apache Tomcat Application Server/JBoss.
* Experience in migrating physical Linux/Windows servers to cloud (AWS).
* Created Cloud Formation templates for deploying AWS resources though Jenkins.
* Leveraged cloud services such as EC2, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
* Implemented automated local user provisioning instances created in AWS cloud.
* Maintaining the user accounts (IAM), RDS, Route 53, SES and SNS services in AWS cloud.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMI s for mission critical production servers for backup.
* Setup and managed light weight Kubernetes K3s for self-healing and high availability.
* Created docker image for microservices files to orchestrate applications using Kubernetes.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers.
* Experience in developing Docker file to containerized applications to deploy on managed Kubernetes service EKS and AKS.
* Managed deployments in EKS managed Kubernetes, setup multi nodes cluster and deployed containerized applications
* Developed Shell/Python Scripts for automation purpose.
* Experience in Microsoft technology development tools like Visual Studio, TFS.
* Used Puppet to automate Configuration management and to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points and Packages.
* Installing, configuring and administering Jenkins CI tool on Linux machines. Developed build and deployment processes for Pre-production environments.
* Installation & Configuration Jenkins, Dockers, Openshift as per the client request.
* Experience writing data APIs and multi-server applications to meet product needs using Golang.
* Experience in writing the HTTP RESTful Web services and SOAP API's in Golang.
* Installation, Maintenance, Administration and troubleshooting of Red Hat Enterprise Linux 5/6/7/8 and Solaris 9/10 systems.
* Installation, Configuration and Administration of High Availability Veritas Cluster Servers.
* Working Knowledge of Cisco UCS (Unified Computing System). Creating a Service Profile on UCS Blade and use it to Kickstart the Server and adding VLAN to UCS Cluster for Static IP Configuration.
* Worked closely with Database Administrators on troubleshooting Oracle CRS and RAC related issues.
* Actively participated and supported in the migration production servers from old data center to New Data Center
* Managed 40 + UCS Domains equaling around 3000 servers which includes ESXI and Linux/Windows OS serving BM through UCS central.
* Installing and Upgrading Cisco Hyperflex and Hyperflex edge Systems.
* Deployed OVF templates for VMware ESXI and Cloned Virtual Machines.

**Environment:** Openstack, AWS, EKS, Ansible, Python, Golang, chef, Jenkins, Nagios, KVM, VMware, Redhat, web services, Shell scripting, Mongodb, Oracle DB, MySQL.

**EForce Technologies INC. July 2015 – March 2016**

**Sr. Linux Administrator**

**Responsibilities:**

* Installation, Configuration and Upgrade of Red Hat Linux 4/5/6 operating systems.
* Created logical volumes, extending the file systems using LVM.
* Install the packages on servers using the repository servers.
* Implementation and administration of VMware ESXi 4.x, 5.x, vCenter for running Redhat Linux, windows servers on Production and Development.
* Installation through SATELLITE Server.
* Experience in installing, configuring and implementing the RAID technologies using various tools like VxVM and volume manager.
* Performed upgrades of Packages and Patches in Linux.
* Mentor others with various build issues.
* Responsible for daily tasks such as user setup, group setup, install and upgrading new machines on RHEL.
* Configured LVM (Logical Volume Manager) on various Linux servers.
* Maintained and monitored user accounts, file security, file access, permissions, passwords, provided special privileges to selected users, thus controlling the system and its access.

**Environment:**

**OPERATING SYSTEMS:** Red Hat Enterprise Server (RHEL 4,5 and RHEL 6), Solaris 8,9 and 10

**HARDWARE:** HP Blade servers, SUN Fire, V480, V440, V240, SUN M4000/3000, HPDL-380 and DL-360, EMC. Cisco Routers.

**Master’s in Information system, VA, USA from Jan 2014 to July 2015.**

**Cadsci Technologies Pvt. Ltd**

**June 2010 to Jan 2014**

**System Administrator**

• System administration support involving server build, installation, configuration and implementation on Linux (Red Hat & SUSE)

• Allocating necessary space requirements for oracle database.

• Server Virtualization using VMware for Red Hat Linux.

• Installing, configuring, and administering DNS, DHCP, TCP/IP, FTP, SFTP, VPN and NIS.

• Installing and supporting SQL server and Oracle database.

• Worked with Logical Volume Manager (LVM) to create file systems, volumes in efficient manner and troubleshoot.

• Providing day-to-day user administration like adding or deleting users, password aging.

• Regular disk management like adding/replacing hot swappable drives on existing servers/workstations, partitioning according to requirements, creating new file systems or growing existing one over the hard drives and managing file systems in SAN switch.

• Creating and resolving user’s access issues (Role access, FTP etc.). Creating Oracle case and coordinating with hardware & application team to resolve the system hardware issues and break-fix.

• Monitoring the ticket queue all the time, working on the tickets and resolving them within the time frame.

• Handling system dependencies and binary file management.

• Creating maintlog and inform the higher management to inform the unplanned server outages and planned change activities.