**Vinay Kumar**

**Employer Details : raju.kaguturi@mitresource.com/203-567-0145**

**PROFESSIONAL SUMMARY:**

* 9 years of experience in IT working on DevOps, CI/CD, configuration management, IT Infrastructure management, deployment and release management, AWS cloud and systems administration.
* Experience in designing and deploying AWS solutions using EC2, S3, VPC, RDS, EBS, ELB, Cloud Front, Cloud Watch and auto scaling.
* Experience in administration of source control and version control tools like SVN, GIT, GITHUB, Bit Bucket and Gitlab.
* Experience in writing Ansible YAML scripts, Chef Ruby scripts and configuring Chef infrastructure from scratch.
* Experience in automating Windows environment using PowerShell and Linux environment using Bash.
* Experience in writing automation scripts using Bash, PowerShell, Python to support IaaS and continuous deployment.
* Experience in ANT and Maven to build Artifacts from Source code and in managing the Nexus repository.
* Experience in DevOps tools like Jenkins, Bamboo, Jira, Docker, Ansible, Puppet, Ansible and Chef.
* Experience in deploying cloud services including Jenkins and Nexus on Docker using Terraform.
* Experience in building DevOps Pipelines and extensively involved in Continuous Integration and end-to-end automation for build deployments.
* Hands on experience in Docker Engine, Docker HUB and Docker Swarm and creating docker images and composing Docker Registry for middleware installations and domain configurations.
* Experience in the administration of Linux/AIX/Windows/Solaris systems.
* Experience in the administration of VMware vCenter 5.0, 5.5, 6.0, ESXi 6.0, 6.5, 7.0 and 8.0 and supporting Hyper-V systems.
* Experience in installations and maintenance of Middleware applications like WebSphere, Apache, JBoss, Tomcat.
* Experience in Dell EMC storage arrays (VNX, VMAX, ECS, XtremIO) and the NetApp FAS series administration.
* Hands on experience in Cisco Fex and 5K series switches and zoning on FC fabrics.
* Experience in the virtualization of IBM power systems environment (P7, P8, P9) and IBM HMC.

**TECHNICAL SKILLS:**

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| Operating Systems | RHEL, CentOS, SUSE, AIX5, Ubuntu, AWS Linux, Windows server 2022/2018/2016/2012 |
| Configuration management Tools | Ansible, Chef, Puppet |
| Built tools | ANT, Maven, Gradle |
| Cloud Technologies | AWS, Azure |
| Containerization | Docker, Kubernetes |
| Scripting | PowerShell, Ruby, YAML, Python and Bash |
| Monitoring tools | Nagios, Prometheus, Cloud Watch, Splunk, Solar Winds |
| Versioning tools | Bit bucket, GIT, GIT Hub. |
| Orchestration | VMware vRealize orchestrator, Kubernetes, Terraform, Cloud formation |
| CI/CD tools | Jenkins, Bamboo, SVN, GIT, uDeploy |
| Enterprise storage | Dell EMC Unity, ECS, PowerStore, VMAX, VNX, XtremIO, NetApp |
| Server Hardware | Dell R730, R740, R750, HP ProLiant Gen9, Gen10, IBM P7/P8/P9, Lenovo Thinkservers, Cisco UCS C-Series |
| Virtualization | VMware, AWS, OpenStack, IBM VIO, HMC |

**PROFESSIONAL EXPERIENCE:**

**DELL EMC June 2017 - Present**

**Durham, NC**

**Title: Senior DevOps Engineer**

* Administered/managed AWS cloud services like EC2, S3, RDS, ELB, EBS, VPC, Route 53, Auto scaling groups, Cloud Watch and Cloud Front.
* Installed applications on AWS EC2 instances, configured the storage on S3 buckets, backed up and archived files in Glacier.
* Configured and managed AWS Elastic Load Balancing (ELB) to provide fault-tolerant infrastructure avoiding single point failures of applications, thus increasing infrastructure’s availability and performance optimize throughput and response time.
* Created snapshots and Amazon machine images (AMI) of the instances for backup and created Identity Access Management (IAM) policies for delegated administration within AWS.
* Used AWS Route53, to route the traffic between different availability zones. Deployed and supported Mem-cache/AWS Elastic Cache and then configured Elastic Load Balancing (ELB) for routing traffic between zones.
* Created python scripts to automate provisioning AWS services such as ELB, CloudFront distribution, EC2, S3 bucket configuration. This script creates stacks, single servers or joins web servers to stacks.
* Created custom AWS Cloud Watch dashboards for monitoring CPU utilization, Network In-Out, Packet In-Out and other parameters of the instances also administered Nagios to proactively monitor environment.
* Used Terraform scripts to spin up EC2, RDS, S3 services.
* Worked on AWS Code Deploy and Auto Scaling Groups to implement Blue Green Deployments for the various releases with Groovy.
* Worked on creating a Continuous Delivery CI pipeline with AWS Code Pipeline to automate builds with AWS Code Build.
* Worked closely with developers to merge child branches to master branch on every sprint and automated pushing code to Git central repository to build/test/delivery/deploy applications rapidly with Jenkins using Ant, Maven, Junit, JFROG, Docker plugins and deployed to Docker containers.
* Extensively integrated Git for automating builds with Jenkins.
* Worked on Git versioning control system to add/commit/merge code in local repository and push/pull to/from Git central repository.
* Create, maintain and administer GitHub and Subversion repositories as source code management.
* Experience in connecting Amazon EKS worker nodes on AWS to cluster’s control plane using Kubernetes API.
* Created end to end automation of Continuous Deployment and Configuration Management in Udeploy.
* Developed build and deployment scripts using ANT and MAVEN as build tools to build JAVA/J2EE applications in Jenkins to move from one environment to other environments.
* Automated provisioning and repetitive tasks using Terraform, Docker container service, service orchestration. Created Terraform scripts for AWS CloudWatch alerts. Created development, staging, production environment from scratch using Terraform scripts.
* Successfully installed/configured Docker, Docker images, Docker Hub registers, Containers on top of Redhat Linux instances and installed/managed monitoring tools such as, Splunk for resource monitoring/network monitoring/log trace monitoring.
* Worked/involved in creating Git workflows for version control (source code management) and continuous delivery framework using Jenkins, Ansible in Red hat Linux 6.x, 7.x environment for scrum/Agile projects.
* Responsible for nightly and weekly builds to perform deployment of release to various QA & UAT in Linux environments.
* Involved with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Used AWS CloudWatch and CloudTrail for monitoring ELB and EC2 applications.
* Experience in automating CI/CD pipelines in Gitlab using gitlab-runner.
* Worked on creating Kafka and Cassandra clusters and maintaining them.
* Experience in connecting Amazon EKS worker nodes on AWS to cluster’s control plane using Kubernetes API.
* Wrote yaml scripts for GitLab CI/CD pipelines to automate the build process.
* Worked on writing Terraform scripts for building infrastructure using Infrastructure as Code (IaC).
* Managed, deployed and tested multiple Microservices containers using Jenkins and OpenShift for test, development and production environments along with many other underlying environments for error free deployments at production level.
* Continuously monitored and configured alerts and managed dashboard for various servers using Prometheus and Grafana for promising minimal downtime.
* Configured Splunk in Microservices for continuously logging for further investigation if any errors in any of the Microservices and closely worked with developers for debugging and resolving the issues.
* Supported the installations and troubleshoot various DDR models like DD4500/DD6300/DD6900/DD9400/DD9500/DD9800.
* Other primary duties include configuring the HP servers and NetApp filers, allocating Petabytes of storage spread across dozens of servers and providing the best practices and implementing configurations on the storage devices like VNX, VMAX and NetApp.

**Environment:** GitLab, Ansible, cloud watch, AWS (EC2, VPC, ELB, S3, ECS, EKS, RDS, Cloud Trail and Route 53, ELB, IAM), Shell Scripting, Packer, Kubernetes, Kafka and Zookeeper.

**Only IT Consulting LLC Nov 2015 - June 2017**

**Hoffman Estates, IL**

**Title: Linux Systems Administrator**

* Hands on experience in Jenkins, Chef, Ansible as a Configuration Management tool.
* Handled the production environment with more than 400 servers which have both windows and Linux machines.
* Worked on writing PowerShell scripts for VSA production deployment on production servers.
* Highly experienced in writing shell scripts, PowerShell scripts, yaml script and python scripts.
* Highly experienced in working with Azure and AWS, spinning up new instances and controlling access through IAM.
* Experienced in creating Jenkins CI pipelines which will have several stages which perform Git Checkout, Unit tests, SonarQube Analysis, Building Artifacts, Publishing artifacts to artifactory.
* Worked on writing Chef cookbooks for deploying applications and installing Dynatrace agent on new Tomcat servers.
* Highly experienced in deploying EAR file applications on Tomcat using Chef automation by writing chef recipes.
* Worked closely with Web admin team to get servers ready to working stage and to write chef objects which have server SSL configurations, port offset values, and key certs information.
* Created Jenkins pipelines to build and upload artifacts to artifactory.
* Hands on experience in writing Shared Libraries which can be used for multiple applications for creating CI Pipelines which has multiple stages like Git Checkout, Unit tests, SonarQube Analysis, Building Artifacts, Publishing artifacts to artifactory and sending the build status to developers.
* Hands-on experience in diagnosing, troubleshooting various networking, hardware & Linux/ UNIX server's services issues and performing preventive maintenance.
* Setup of full networking services and protocols on UNIX, including NIS/NFS, DNS, SSH, DHCP, NIDS, TCP/IP, ARP, applications, and print servers to ensure optimal networking, application, and printing functionality.
* Configured load Balancers, kickstart server and updating/applying patches to the servers using Red Hat Satellite server.
* Configured and deployed patches, upgrades, bug fixes on both physical and virtual Redhat Linux servers using satellite servers.
* Worked on Grub, PXE boot, Kickstart, Packages, Yum, RPMs, LVM, Boot from SAN, file system configuration.
* Installation, maintenance, administration and troubleshooting of Linux and Windows Operating Systems.
* Performed automated installations of Operating System using kickstart for Linux.
* Performed Linux OS management tasks which include installing packages using rpm and zypper, creating soft and hard links, YaST for installing and configuration on SuSE operating systems.
* Extensively worked on hard disk mirroring and stripe with parity using RAID controllers.
* Installation and configuration of Veritas Volume Manager, LVM, Veritas File System and Veritas Cluster Server.
* Installed the Operating System on Solaris and Linux servers and blades over the network.
* Built virtualized Linux servers on ESX and blade servers to host multiple applications on same chassis across different server hosts.
* Created and maintained design standards for the AIX/Linux/ operating systems and Power VM virtualization.
* Configured the IBM physical frames P795, P770, P750, P720 and P570 and logical servers across multiple availability tiers.
* Installed and configured VIO servers, built LPAR clients and shared the I/O among them.
* Configured IBM NIM master and NIM resources and performed installations on the clients.
* Worked on the IBM mksysb, alternate disk installation, upgrading and installing the various TL levels on the AIX systems.
* Performed Avamar installations and supported further configuration/compatibility issues.
* Setup the CIMC for Cisco UCS servers, iDRAC for Dell servers and Lenovo TSM and managing those servers and identifying issues through the GUI management console.
* Provided the workflow to manage the Data Domain Management Center (DDMC) and monitored the alerts and failures on critical Data Domain systems.
* Supported the ESX installations and all the issues encountered between the hosts and the VM’s.
* Performed zoning on the Brocade (Webtools & CLI) to provision storage from VNX to the hosts and provided the documentation with all the steps.

**Environment:** Bitbucket, Jenkins, Chef, Ansible, AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53, ELB, IAM), Shell Scripting, PCF, Python, Ruby script, Azure (Virtual Machine, Subscriptions, IAM, Azure Monitoring), VSA, BMS, UTMSP, Unitrends

**Centraprise Corp Mar 2015 - Oct 2015**

**Edison, NJ**

**Title: Systems Administrator**

* Worked on the APC and Schneider PDU’s, configure the network and upgrade the firmware as well when needed.
* Worked on the HMC and IBM Power 8 systems compatibility issues, creating LPARs, installing VIOS and AIX on the LPARs by distributing the virtual resources among multiple LPARs.
* Reviewed user requirements and performing designs, installation and implementation related to the new software.
* Hands on experience on Pure Storage and Cohesity.
* Configured and allocated storage on EMC Symmetrix VMAX 40k,20K,10K, DMX-4, VNX 7500,5700,5500,5300 and CLARiiON CX4 arrays using SYMCLI, Unisphere for VNX and VMAX.
* Actively participated in Tech Refresh Projects and performed Array based, Host Based storage migrations using Open Replicator Hot-Pull, San Copy, SRDF-DM, Open Migrator and Powerpath Migrations Enabler.
* Installed and configured VPLEX Metro with VMAX-20K, VMAX-40K and VNX-5700 systems.
* Used Unisphere performance analyzer and ECC to monitor the VMAX environment.
* Responsible for the administration of NetApp FAS 3270, 3240, 2240, 2040 filers.
* Managed the Ontap 7-mode 8.1.2 versions on all the NetApp.
* Coordinated with the systems, network and the applications team in performing the scheduled maintenance, shutting down the NetApp and bringing them on after the maintenance following all the best practices.
* Upgraded the Data Ontap from 8.0.5 to 8.1.2 and documented it for the entire team.
* Upgraded the NetApp disk and the disk shelves firmware as per the business needs.
* Enabled the NetApp HA pair configuration.

**Environment:** IBM P7/P8, Ontap 7.x, 8.x, VMAX, VNX, VPLEX, VIOS, RHEL, CentOS, APC.

**Datamine Infotech May 2012 - July 2013**

**Hyderabad, India**

**Title: Systems Engineer**

* Configured the NIM master and NIM clients and performed the OS installations on the clients.
* Managed all the Logical volumes, performed SEA failover as part of server build activity.
* Set up the downtime for the systems which required any kind of hardware upgrades or replacements.
* Performed regular system backups using mksysb and volume group backups.
* Configured Business Continuity, Disaster Recovery and Restoration technologies.
* Worked with the snapshots, snapmirror, qtree snapmirror and snapvault for the NetApp filers.
* Created documentation on how to perform the replications using the snapmirror.
* Recovered data from the volume snapshots, creating CIFS and NFS shares and providing access to the business users to use the shares accordingly.

**EDUCATION:**

Master’s in Electrical and Computer Engineering Aug 2013 - Dec 2014

Southern Illinois University Carbondale, IL, USA

Bachelor’s in Electronics and Communications Engineering Sep 2008 - Apr 2012

Jawaharlal Nehru Technological University, Hyderabad India