

**GANESH VEMPATI**

Sr. System Specialist

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Overall 14+ years of experience in the Information Technology industry consultant, Linux System Administrator on AWS cloud computing, Linux System Administration, Windows Administration, Virtualization platform, and automation expertise to engineer and deliver best-fit products catering to client requirements and to main sustainable environments in the cloud computing space

### Highlights

- AWS, Linux, VMware and Windows
- Networking, Firewall management and network security
- Hands on experience in DevOps tools like Git, Jenkins, redmine, Zabbix and K8s

### Certifications

- AWS Certified SysOps Administrator: AWS-ASOA- 6947
- Red Hat certified System Administrator: 110-484-961
- VMware certified professional in data center virtualization (VCP-DCV): 15475385
- Red Hat certified engineer (RHCE) ID: 805010659655153

### Technical Skills

#### Cloud and DevOps:

- Hands on experience in Amazon EC2, ELB, IAM, S3, EFS, CDN and other cloud services.
- Configuring ELB based upon network traffic and performing Auto scaling based on available instances load based on customer requirement.
- Managing Users, Groups using the Identity and Access Management service (IAM). Strong knowledge on policies and roles.
- Deploying and configuring EC2 instances and Restricting access to instances using Security Groups.
- Creating Snapshots and Amazon Machine Image (AMIs) of the instance for Backup.
- Automating EBS and RDS disk snapshots.
- Installing and Setting up Web Servers according to customer requirement
- Create/Managing buckets on S3 and defining life cycle policies.
- Beanstalk creation for web applications.
- Inbound and outbound mail box setting with help of Amazon SES service.
- WAF installations on Load balancer and instances.
- Monitoring servers through Amazon Cloud Watch and Zabbix , SNS and maintaining logs by using Cloud Trail
- Customize Cloud Watch monitoring as per customer requirement.
- Strong knowledge on configuring Private network and Public networks, Gateway and Routing tables using VIRTUAL PRIVATE CLOUD (VPC).
- Managing Linode, Volumes, Longview, StackScripts, and Images services in Linode cloud.
- Collecting the Consolidated billing and creating the billing triggers for prior intimation to the clients.

### **Virtualization: VMware**

- Working experience on various virtualization platforms like VMware, Microsoft Hyper-v and XEN.
- Installation, Implementation and upgrading of VMware vSphere vCenter 6.5 and ESXi 6.5. Creating HA cluster and fault tolerance, DRS rules, VM networking rules.
- Cold and Hot migration of the virtual machines, P2V, V2V conversion
- Troubleshooting VM and Data Center Level Issues.
- Configuring Hardware and software RAID and integrating with ESXi servers.
- Implemented SRM (site recovery manager) between Prod and DR sites.
- Installing and configuring the Veeam backup and recovery solutions

### **Linux:**

- Hands on experience on different Linux distros like Redhat & Cent and Ubuntu.
- Managing file systems and increasing volumes up on request (change activity).
- Changing permissions and ownership of a file or directory.
- Monitoring tickets on severity basis and managing the system performance.
- Performing patching, firmware upgrades or application changes (support).
- Installing, removing and upgrading the packages by using rpm and yum.
- Configuring FTPS server on Ubuntu and Linux machines.
- Installing SSL certificate on Linux servers.
- Installing, configuring and managing of open sources tools LAMP, redmine, etc
- Monitoring Linux servers using Nagios and Nginx amplify, Zabbix and OpenNMS.
- Root password recovery in Centos and RHEL servers.
- Implementing different types of chatting tools (Mattermost and Pidgin) to meet the client requirement.
- Managing different email servers/services like Zimbra and Office 365.

### **Network:**

- Installation, configuration, and Managing Proprietary and Open Source firewalls
- Assigning the Http and Https rules and report generation.
- Configuring Site-to-site and client VPN.
- Configuring port forwarding and multiple ISP's to the firewall.
- Monitoring the firewall logs using with WatchGuard dimension and Forti Analyzer.
- Experience on Websense Content Gateway, creating and deploying web security policies
- Generating reports and patch management.

### **Present Experience**

#### **Melvault Software Solutions Pvt Ltd, Senior Systems Specialist (Oct, 2021 to till date)**

- Installed and configured Jenkins for purpose of continuous integration for automation for all build and deployments and creating Jenkins CI pipelines.
- Worked on AWS, configuration of EC2 instances to configure Elastic IPs, worked on Security groups to resolve firewall issues.
- Created S3 buckets and configured them with lifecycle policies to archive the infrequently accessed data to storage classes based on environment.
- Created Ansible Playbooks to provision Tomcat server, Jenkins, GIT.
- Worked in GIT hub to manage Source code repository.
- Hands on experience on JIRA Ticketing Tool for creating incidents tickets.
- Experience in implementing and managing Docker-based infrastructure using

Kubernetes.

- Experience in setting up Prometheus and Grafana Dashboards.
- Created Infra By using Terraform with Jenkins P Implemented infrastructure as code using Terraform to achieve scalable and automated provisioning of AWS resources
- Creating servers, AMIs, and storage blocks in S3 taking snapshots, VPCs, subnets, load balancing, and Auto-scaling in AWS.
- Administering users, groups, and roles & setting up policies by using IAM and also Creation of VPCs, S3 buckets, and Ec2 Instances automating them through Terraform
- Experienced in AWS cloud services, including IAM, S3, VPC, EC2, CloudWatch, CloudFormation, ELB, Auto Scaling, EBS, EFS, SES, RDS. Security Groups, and Route53.
- Created and configured Elastic Load Balancers (ELB) and Auto Scaling Groups to efficiently distribute traffic.
- Configured custom metrics in Zabbix and installed agent for detailed monitoring.
- Initiated alarms in CloudWatch to monitor server performance, CPU utilization, disk usage, etc., and take necessary actions for optimization

## Previous Experience

### **Vedic Systems Pvt Ltd, Linux System Administrator (July, 2016 to September 2021)**

- Working experience on agile methodology.
- Building and managing GIT server, create projects and assign them to users and groups.
- Creating and configuring the builds in Jenkins server, User creation and installing the required plugins and writing the scripts to automate the builds in Test, Dev and Prod servers (Local DC/Cloud-AWS EC2 and S3).
- Daily, Weekly and emergency patch deployments as manually and automated the process with Jenkins.
- Configured CloudFront for CDN services as well as enabling SSL security for the S3 buckets.
- Managing own Email server (Zimbra & Office 365) for our organization as well as multiple clients and integrated with third party Anti-Spam solution.
- Hands on experience on P2V, V2V migrations for multiple clients.
- Hands on experience on designing infrastructure for a new and existing companies and implementing industry best practices to secure them.
- Handling Dev and SysAdmin team to implement DevOps process.
- Implemented Redmine Project Management tool for ticketing, issue tracking, Kanban boards and documentation with version control and given access to the Client projects.
- Setup Amazon Web Services EC2 Instance and Vmware VMs with Apache/Nginx PHP, MySQL, NodeJS and AngularJS.
- Creating a VPC, Subnets, and Security Groups.
- Interacted with the engineering teams for product support, improved and automated deployment and release processes.
- Generating new or updating the Webserver SSL certificates in apache, Nginx, HAproxy.
- Implemented CIS standards of Linux O.S Hardening.
- AWS pricing and quotations preparation to meet customer requirements.
- Training people on AWS and Linux for better coordination within the team.
- Preparing AWS documentation on various solutions & tasks which are useful for future reference.
- Generating various Non-Compliance reports and distributing to support team to work on it

**ExterNetworks Pvt Ltd, Linux System Administrator (Feb 2016 to June 2016)**

- Working experience along with NOC team
- Working experience on rpm build with Koji and analyzing the server logs from Logstash.
- Worked on Puppet and Ansible (Infrastructure configuration management tool).
- Diagnosing and monitoring performance issues using Zabbix and Jira ticketing tool, Pager Duty SMS and voice alerts.
- Installing MySQL on Linux servers and looking after CM (configuration management) related issues.
- Having hands on experience on detecting the LUNs from the storage Team and resolving the issues related to the LUNs.

**Covantech Pvt Ltd, System Administrator (Aug 2012 to Feb 2016)**

- Build the Gitlab server and created the repositories as per the project requirements.
- Build Jenkins server and created jobs in Jenkins for Dev, Staging and Prod servers.
- Integrated Gitlab and Jenkin servers and automate the CI / CD tasks.
- Adding the User workstation SSH authentication with Gitlab.
- Creating Virtual Machines in vCenter.
- Creating Templates and Snapshots of the Virtual Machines as per requirement.
- P2V and V2V conversion from vCenter/VMware converter.
- Cold and hot migration of the virtual machines.
- Implemented Mail server in the split-domain environment, that is Windows exchange server 2010 and Zimbra complete suite mail server. And created mail flow rules in Zimbra.
- Configured and tested on 40 concurrent login sessions with thin clients or PXE boot enabled computers.

**Velocity IT Solutions, System Administrator (Sep2009 to Aug 2012)**

- Worked on Automated and Manual Tickets.
- Tuning kernel and other OS components for specific applications.
- Managing servers remotely using SSH console and Scheduling jobs in Cron for taking recurring tasks and backup.
- Performing administration tasks like users' creation group policy management, file and folder permissions in windows server 2012r2 servers
- Vendor management and Asset management.
- Responsible for LAN Network & system problems.
- Installing antivirus for better security of the servers.
- Updating firewall and blocking/opening the ports on the server.
- Monitoring the server's disk and memory utilization by installing CW Agent.