**SANDEEP**

**SUMMARY**

* Over 7+ Years of Experience in complex technology integration projects with prominence on Cloud, VMware virtualization and Linux.
* Excellent in deploying, configuring and managing OpenStack projects like Keystone, Nova, Swift, Cinder, Neutron, Ceilometer, etc.
* Knowledge on HP Hellion and Red Hat OpenStack.
* Deployed OpenStack on integrated private cloud.
* Created Custom images for OpenStack and writing Post Instance creation scripts using Cloud- Init.
* Integrated OpenStack with OpenDaylight to create software defined networking tenant and routers.
* Experience in Neutron router create/gateway-set/ interface-add to manage L3 public facing routers/firewalls.
* Experience in Open vSwitch for implementing distributed multi-layer networking.
* Automated infrastructure and Deployed applications using tools like Puppet, Chef and Ansible.
* Expertise with Infrastructure as a service architecture design and implementations.
* Experience in designing and deploying AWS services like EC2, S3, RDS, EBS, ELB and auto-scaling groups.
* Created monitors, alarms and notifications for EC2 hosts using Cloud watch.
* Configured Elastic load balancers with EC2 auto-scaling groups.
* Strong customer-facing skills coupled with technical expertise of cloud, VMware and Linux administrator.
* Experience in installing and configuring of virtualization using VMware and Red Hat KVM.
* Designed, installed and configured Red Hat enterprise Linux, VMware ESXi within vSphere 4.X, 5.X and 6.X environments with virtual Center management.
* Configured VMware HA, VMware DRS, and fault tolerance in acquiring higher efficiency for VMware infrastructure.
* Experience in creating virtual machines, snapshots, templates and migrating them between the servers.
* Experience in installing, upgrading, patching, migration, configuration, troubleshooting, security, backup, disaster recovery, performance monitoring and fine-tuning on Linux (RHEL) systems.
* Strong experience in Linux/Unix administration, expertise in Red hat enterprise Linux 4/5/6 and familiar with Solaris 9 and 10.
* Configured Kick start Server in Linux Servers.
* Solid understanding of software Development Life Cycle, Agile Development Methodology, Test Driven Development, Continuous Integration and Continuous delivery.
* Good team player, strong interpersonal and communication skills combined with self-motivation, initiative and the ability to think outside the box. Excellent documentation skills.

**TECHNICAL SKILLS**

**Operating Systems:** Redhat Linux, Ubuntu Linux, CentOS, Solaris and Windows XP /Vista/7/8 , Windows server.

**Cloud platform:** Vmware vCloud director, Amazon AWS, Openstack.

**Virtualization:** Vmware, KVM.

**Devops tools:** Ansible, Chef, Puppet.

**Other tools:** OpenDaylight, Ceph, HAProxy, vSphere Web Client, Splunk, Kanban, Nexus, Jira, Remedy, ClearQuest, Nagios, LDAP, Nginx, Apache Tomcat, Vagrant, Hudson, Jenkins, ALM.

**PROFESSIONAL EXPERIENCE**

**SpartanNash Byron center, Michigan Feb ‘14 – till date**

**OpenStack Cloud Engineer**

**About Client:** SpartanNash (SPTN) is a Fortune 400 company and the largest food distributor serving US military commissaries and exchanges in the world, in terms of revenue. The Company’s core businesses include distributing food to military commissaries and exchanges and independent and corporate-owned retail stores located in 46 states and the District of Columbia, Europe, Cuba, Puerto Rico, Bahrain and Egypt. SpartanNash currently operates 165 supermarkets, primarily under the banners of Family Fare Supermarkets, No Frills, Bag ‘n Save, Econofoods, and Dan’s Supermarket**.**

**Responsibilities:**

* Experience with OpenStack services such as Nova, Neutron, Swift, Ceilometer, Horizon, Glance, Keystone, Orchestration and Cinder.
* Deploying the OpenStack components on multimode with High availability environment.
* Manage and troubleshoot the Nova Compute and Controller Services.
* Integrated Puppet, Chef with Jenkins.
* Integrated OpenDaylight as SDN controller in OpenStack environment.
* Used Fuel to create a test environment.
* Involved in the redistribution into OSPF on the core ASA firewall.
* Managed L3 public facing routers and firewalls.
* Deployed multiple VMs to distribute workloads using Load Balance as a Service.
* Responsible for layer 2 securities which was implemented using a dedicated VLAN ID for all trunk ports, setting the user ports to non-trunking, deployed port security when possible for user ports.
* Installed and configured Chef and developed recipes for automated infrastructure deployment of applications.
* Create and maintain distributed virtual switches and port groups for networking.
* Comprehensive understanding of networking concepts pertaining to LAN and WAN, Information security, IT communication and maintenance in multi-platform environments.
* Expertise in integrating KVM with OpenStack and deploying VM on top of it.
* Worked across Cookbooks for OS and Applications – explored community cookbooks and extended/modified for specific needs.
* Manage and troubleshoot the Neutron Networking service.
* Experimented with neutron Open vSwitching networking.
* Creating bridge networks for internal and external access.
* Manage and troubleshoot Ceilometer Telemetry service.
* Configuration of Virtual Network and Storage.
* Creation of Instances, snapshots, templates and use them based on the requirement.
* Manage and troubleshot the Heat Orchestration Service.
* Involved with the Dev team in modifying Keystone assignment, core and controller packages.
* Working with Heat configuring Heat for newer version and creating stack, launching the stack, create the instance, verifying the creation of instance and delete it.
* Experience in using OpenStack Command line Interface to create and configure instances, networks, images, flavors, containers, volumes, accounts and tenants.
* Creating and managing Meters, Alarms using Ceilometer for checking the Health of Resources.
* Configuring and manage the users and services with the Keystone Identity service.
* Configure and manage the Swift Object Storage Service and Glance Image service.
* Implemented automation and integration for cloud and system infrastructure solutions using Python.
* Configure and manage Ceph and Gluster as a Back End for Cinder.
* Implemented and automated local user provisioning in instances created in OpenStack cloud.
* Used Ansible as DevOps tools and Git as SCM tool to automate the deployment of infrastructure.
* Familiarity on integrating Pacemaker with OpenStack and upgrading OpenStack to Newer versions.

**Environment:** OpenStack, Nova, Horizon, Neutron, Keystone, Glance, Cinder, Heat, Swift, Ceilometer, Ceph, HAProxy, OpenDaylight, Ansible, Hypervisors (KVM, ESXi), Operating Systems (Linux, Windows), Vagrant, Virtual box, Open vSwitch, Git, Ansible Tower, YAML, Python, Shell Scripting, Cloud-Init.

**Statefarm Dallas, TX Mar ‘13 – Jan ‘14**

**AWS Consultant**

**About Client:** It is an American group of insurance and financial services companies, the group’s main business is Mutual automobile insurance company.

**Responsibilities:**

* Automated build and deployment process for application, re-engineered setup for better user experience and leading to building a continuous integrations system for all products.
* Designed and Deployed AWS services.
* Responsible for design of different release environments for new projects and monitoring.
* Implementing a continuous delivery framework using Jenkins, Chef, Maven and Nexus in Linux environment.
* Managed Chef Cookbooks to automate system operations.
* Utilize Puppet and Chef for configuring management of hosted instances within AWS.
* Integration of Maven/Nexus, Jenkins, and Urban code deploy with patterns/Release, Git, Confluence, JIRA and Cloud foundry.
* Responsible for code build, release and configuration on Amazon EC2.
* Optimized volumes and EC2 instances and also created multi AZ VPC instances.
* Used IAM to create new accounts, roles and groups.
* Automating backups by shell for Linux to transfer data in S3 buckets.
* Configured Elastic load balancing to distribute incoming traffic across multiple EC2 instances.
* Migrated applications to AWS cloud and worked with different team members for automation of release components.
* Experience in using Amazon CloudFront and CloudFormation.
* Used Cloudwatch to monitor AWS resources.
* Used Jenkins and Hudson for Continuous integration and Continuous deployment.

**Environment:** EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling, Jenkins, Chef, Maven, Nexus, JIRA, Cloud Foundry, VPC instances, IAM, Batch, Shell scripting in LINUX.

**Bank of America Charlotte, NC Sep ‘11 – Feb ‘13**

**VMware Engineer**

**About Client:** It is an American group of insurance and financial services companies, the group’s main business is Mutual automobile insurance company.

**Responsibilities:**

* Planning and Installing VMware ESXI 4.0 Server installation.
* Installing and configuring vCenter 4.0 Server and Update Manager. Installing ESXI servers & Virtual center. Adding the ESX to the VC/ Virtual machines to an ESXI sever / P2V to an ESXI server.
* Migrating and Importing Virtual Machines P2V, V2V.
* Managing VMware ESX 3.5 upgrade 4, Win 2003 R2 Ent edition servers.
* Adding processors, RAM, NIC, disks to the VM.
* Monitoring application log, security log and system log using Splunk.
* Creating and deploying a VM in Virtual center / Deploying a Bare metal server for SQL databases through HP Rack, Building Virtual Machines, and Cloning& Migrating.
* Configuring vMotion / Creating resource pools and configuring the VM’s based on priority.
* Upgrading the ESXi servers using update manager/ command line/ copying on a DVD from the VMware portal and going through the BIOS configuration.
* Installing and troubleshooting VMware Workstation &VMware fusion.
* Configuring HA & DRS clusters and setting the priority levels.
* Configuring VMware HA, VMware DRS Clusters for vMotion migrations between ESX Servers.
* Good experience in configuring, optimizing and troubleshooting of Windows 2003 and higher versions of OS servers and the Networking setups.
* Experience in managing a team and the resources during Server Infrastructure migrations and platform upgrades.
* Experience on Host Profiles, Distributed vSwitch, DRS, Patches, Snapshots, Disk expansions, Templates.
* Performed Storage vMotion and vMotion.
* Patching the servers through Altiris/ manually, Setting alerts and alarms in the Virtual center.
* Daily Routine health check of critical VM’s and bare metal DB servers.
* Adding processors, memory and extra disks/ expanding disks for a Virtual machine.
* Creating users, groups and configuring the Group Policies.
* Worked on Bug tracking and reporting using Alm/Quality center.
* Working on Remedy tickets and prioritizing the work as per the SLAs.

**Environment:** ESX 5.1/5/0/4.0, vSphere 4.0, 5.0 vCenter 4.0, Windows Server, Exchange Server 2003, 2008 R2/2003, Windows 7/XP, Active Directory, HP Proliant DL and Blade Servers, VCOPS, SRM.

**Tata consultancy services Hyderabad, India May ‘09 – Aug ‘11**

**Linux Administrator**

**About Client:** It is an Indian multinational information technology (IT) service, consulting and business solutions company.

**Responsibilities:**

* Installed, configured and administered of all Linux servers.
* Have managed the Chef Client nodes and upload cookbooks to chef-server from workstation.
* Used Agile**/**scrum environment.
* Extensive use of Jenkins and GitHub for continuous integration and deployment.
* Used pearl, python and ruby as scripting language to automate the tasks.
* Used Chef to configure/install web servers, database server.
* Configured Red hat cluster nodes for any legacy applications and verified the daily health check on the cluster nodes.
* Installing and updating packages using YUM.
* Configured and administered Apache Tomcat and MySQL services.
* Implemented rapid provisioning and life cycle management for Redhat Linux using kick start.
* Experience in security hardening (iptables/selinux) major production servers.
* Experience in compiling, building and installed web server based Linux tools.
* Implemented and maintained internal systems key to DevOps operations such as database servers, continuous integration and QA/test servers.
* Provided support for the deployed Red hat enterprise Linux and Sun Solaris servers for both operating system level and application level.
* Configured red hat cluster nodes for applications and verified the regular health check on the cluster nodes.
* Created VM templates, cloning and managing snapshots.
* Troubleshoot performance or configuration issues with MySQL and Oracle.
* Monitored and troubleshoot backups and scheduled cron jobs.
* Expert in scripting using Bash and Perl for mail servers, samba servers and apache servers.
* Configured NIS, NFS, DNS, DHCP, FTP, FSTP, Telnet and Raid levels.
* Replicated oracle 10g and 11g databases using OCFS2.
* Deployed several Linux guest builds from VMware templates using powerCLI as well as Red hat servers.
* Patch management of servers and maintain server’s environment in deployment, OA, Staging and production.
* Co-ordinated with 24x7 on-call support for Linux.

**Environment:** Red Hat Linux (RHEL 4/5/6), Solaris (9/10/11),CentOS, Logical Volume Manager, Global File System, Red Hat Cluster Servers, Oracle, MySQL, DNS, NIS, NFS, Apache, Tomcat, Maven, Red Hat cluster, NFS, DNS, SAN/NAS, puppet and chef.

**EDUCATION**

**Bachelors in Computer Science Engineering**

**GITAM University, INDIA**