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| **Experience** |

Having **7+ years** of IT experience in the field of **Linux** Servers Administration, **HPC (High Performance Computing), VMware** ESXi 5.x, 6.x and vSphere 5.x, 6.x, **SAN&NAS** Storage and **Backup** Administration where installing, configuring, administering, and troubleshooting are involved in an Enterprise level.

Hands on experience in implementing Disaster Recovery on **Storage** and **Replication** implementation in virtualization platform **Hyper-V, VMware**

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| **Synopsis** |

* Installation & Configuration of Red Hat Enterprise Linux 6 Server.
* Installation of VMware ESXi5.5, 6.x and vSphere 5.x, 6.x
* Creating and Managing Virtual Machines and Templates
* Creating Clusters for High Availability (HA) and Distributive Resource Scheduling (DRS)
* Package Management using RPM & YUM.
* Disk Management: Partitioning tool like fdisk, parted
* File System Management: ext2, ext3, ext4,xfs,Lustre
* Managing NFS Servers.
* Configuration of NFS for file sharing.
* Configuration of different RAID levels on Linux (RAID0, RAID1, RAID5, RAID6).
* Configuration of LVM and managing the volumes.
* Diagnosing user related issues and provide solutions.
* Diagnosing and monitoring performance issues using ps, top and vmstat.
* Responsible for adding, creating new users, groups and setup home directories and appropriate access restrictions to software and directories & files using access modes.
* Maintaining Linux Quota System.
* **DR implementations on Storage level and Sever level**

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| **Technical Skills** |

**Virtualization** : KVM, VMware, Hyper-V Failover Cluster

**Cluster Infra** : HPC (High Performance Computing)

**SAN Storage** : HP 3PAR, MSA 2050, NetApp,

**SAN Fabric Switch** :HP Brocade (300 B-Series)

**Backup Technologies** :NetVault-v11.2.0.15/v11.1.0.28

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| **Professional Experience** |

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| Employer | Designation | Duration |
| Primus Global Technologies Pvt. Ltd. | Linux Migration SA | Sept 2018 to Feb 2019 |
| Tarant Software Pvt Ltd. | Sr. Linux Administrator | Oct 2013 to Sept 2018 |
| Altivo Information Technologies Pvt. Ltd. | Virtualization Engineer | April 2011 to Sept 2013 |

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| **Educational Qualifications** |

* MSc ComputerScience.

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| **Project Summary** |

**Roles & Responsibilities:**

**Linux Administration**

**Activities performed in Linux Server**

* Installing and configuring Server OS RHEL 5.2/5.8/6.0, CentOS 6.7 Final
* Disk Management: Partitioning tool fdisk, parted
* Package management using RPM & YUM
* File system Management: ext2, ext3, ext4, xfs
* Add, Modify and Delete users/groups accounts
* Applying Password polices to users
* Responsible for user and group administration
* Managing disks and Quotas implementations (quotacheck, quotaon, quotaoff, edquota)
* Configure ACL level security on files (using setfacl , getfacl) can be applied for users and groups
* Advanced file permissions using SID,SGID,Sticky bit
* Installing and configuring NFS/SAMBA to simulate NAS Storage
* Installing and configuring FTP Server
* Installing and configuring NIS Server
* Monitoring System performance of Virtual memory, system events, swapping , disk Utilization, CPU utilization
* Expert in setting up SSH, SCP, connectivity between Linux hosts.
* Performance monitoring, resolving network issues using tools such as top, iostat, vmstat, netstat, sar commands.

**Activities performed in HPC (High Performance Computing)**

* Hardware model HP Apollo 2000 chassis computing nodes
* Totally 26 compute nodes in 7 chassis. Each 2U chassis have 4 compute blades which shares the PSU’s.
* Installed OS CentOS 6.7 Final
* Managing Master, MDS(Meta Data Server), OSS(Object Storage Server) Nodes
* Managing MDT(Meta Data Target),OST(Object Storage Target) Targets
* Monitoring computing Nodes using Insight CMU
* Using Pdsh is a high-performance, parallel remote shell utility. It uses a sliding window of threads to execute remote commands, conserving socket resources while allowing some connections to timeout if needed Pdsh is a an efficient, multithreaded remote shell client which executes commands on multiple remote hosts in parallel. Pdsh implements dynamically loadable modules for extended functionality such as new remote shell services and remote host selection.
* Experience in configuring NIS Server
* Add, Modify and Delete users/groups accounts
* Applying Password polices to users
* Managing disks and Quotas implementations (lfs quota, lfs setquota -u user1 -b 0 -B 1024000 -i 0 -I 10000)
* Experience in installing and configuring Monitoring tool Insight CMU 8.0
* Hosted applications NASTRAN,ANSYS,Altair CFD++
* Maintain shutdown procedure for the clusters

1. Plan the Shutdown activity and inform the Cluster Users of the Schedule for the shutdown.
2. Verify if any jobs are running and kill all the running jobs(login to Gangila ganana portal)
3. Unmount the Lustre Filesystem from all the compute nodes. #pdsh “umount /home”
4. Unload the lustre modules #pdsh “lustre\_rmmod”
5. Power off all the compute nodes. #pdsh “poweroff”
6. Unmount the lustre filesystem and unload the lustre modules from the master node

#umount /home;lustre\_rmmod

1. poweroff the OSS & MDS Server
2. #ssh oss #/etc/init.d/heartbeat stop;lustre\_rmmod;poweroff
3. #ssh mds # etc/init.d/heartbeat stop;lustre\_rmmod;poweroff
4. #poweroff
5. Power off the Master node #poweroff

* Maintain power on procedure for the clusters

1. Power on the Ehternet and the Infiniband Switches and wait for 15 minutes
2. Power on the master node and wait until it boots up.
3. After the master node is completely booted, power on the OSS & MDS Server together and wait for 15 minutes.
4. Mount the Luster Filesystem on the master node.
5. Power on the compute nodes one by one using the HP CMU Utility.
6. Verify that the lustre file system is mounted on all the compute nodes and mount if not mounted, then mount it manually
7. #pdsh “mount|grep –i lustre”

**VMware Administration**

**Activities performed in VMware vSphere 5.5**

* Hands on Experience on vCenter 5.5 & 5.1, ESXi 5.1
* Installing, configuring and managing ESX/ESXi 4.X, ESXi Server 5.0/5.5, vCenter Server 4.X/5.5, vShpere client
* Creating vCenter, ESX/ESXi Hosts and creating virtual machines
* Creating virtual machines and installing VMware tools on them and troubleshooting Virtual Machine related issues
* Performance V-motion and troubleshooting V-motion related issues
* Creating port groups and troubleshooting network related issues
* Performing V-motion and troubleshooting V-motion related issues
* Troubleshooting SAN and NAS related issues with Host ESX/ESXi
* Troubleshooting Host Management agents related issues and virtual machines related issues
* Configuring High availability and Distributed Resource scheduler and troubleshooting related issues
* Configuring port groups and troubleshooting network related issues
* Connecting to ESXi server by using vSphere client, and Web access, Direct Console User Interface (DCUI) and vCenter server
* Creation of NIC teaming, VLANs and Switch and port group polices
* Configure Data store for the ESX Servers
* Configure HA and DRS Clusters
* Setting up and troubleshooting feature like HA/FT/DRS with EVC for the Virtual Machines for business continuity
* Creation of templates from VMs and creation of VMs from templates
* Converting physical machines to virtual machines (P2V) and workstation VMs to ESX VMs (V2V) using VMware converter
* Effectively managing the resource using vMotion and SvMotion
* Install, configure and managing vSphere Data Protection (VDP) with Deploy OVF Template

**Hyper-V Administration**

**Activities performed in Hyper-V**

* Installing and configuring windows based roles Hyper-V and Failover Cluster Manager
* Installing and configuring Failover Cluster in Windows Server 2008/2012/R2 Standard and Datacenter
* Configuring Roles Hyper-V Replica Broker, File Server on non-clustered hosts for HA
* Configuring Cluster for multiple nodes
* Configuring Hyper-V Virtual Switch manager and Network Teaming
* Creating Network Heart Beat and Disk Witness in Quorum in Failover Cluster
* Managing multiple Failover Clusters and Cluster nodes in Production and DR site
* Managing mapped LUNs, convert GPT and create CSVFS
* Adding LUNs into Cluster Disks for HA
* Managing ClusterShared Volumes for VMs
* Managing and maintaining Production Servers in windows based Failover Cluster
* Monitoring the Production Servers in Cluster the LUN disk utilization
* Managing Storage Pools
* Managing and maintaining Disk Quotas

**SAN Storage Administration (HP 3PAR)**

**Activities performed in SAN Storage HP 3PAR StorServ 7200**

* Experience in implementation and administering 3PAR StoreServ 7200 Unified SAN Storage Administration
* Configuring Management IP Address
* Installing and configuring SSMC
* Creating CPGs, Virtual Volumes by using SSMC
* Export VV to Host and Host Sets
* Quorum Disk creation for the Host and Host Sets for the Hyper-V Failover Cluster Environment
* Remote copy group 1-1 implementation in Production and DR site
* Creating Remote Copy Group
* Managing VV replication at DR site
* Managing and Maintain the InServ Processor
* Collecting logs from SPOCC
* Monitoring the disk usability in command line