**PHANI CHANDRA RAVULAPATI**

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| **Title:** | Technical Lead |
| **Present Company:** | Wipro Technologies |
| **Company Location:** | Bangalore, India |
| **Languages:** | English (fluent), Hindi, Telugu |
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A LITTLE ABOUT ME!

A Confident, Creative and Qualified IT professional with distinguished experience in Software Quality Assurance/Quality Control into storage domain having exposure to complete Infrastructure, Networking, Virtualization in VMware, Hyper-V and Storage Appliances. A creative thinker who seeks better ways to plan and manage testing efforts. Experienced in handling multiple clients / projects simultaneously most of which require cross country and organization proficiency.

CAREER GOAL

Seeking challenging leadership position in Software Quality Testing that enables me to contribute my best to the Organizational growth and provides me to move ahead in my career.

# Summary Capsule

* 10+ years of total I.T experience with more than 9+ years of hands on experience in Storage Area Network (SAN).
* Experience on QA and testing of Storage based products and Virtualization based VMware products, effective use of QA and Testing practice. Strong knowledge of all phases of SDLC and Strong working knowledge of Software testing (Functional, Integration, Performance, Quality Metrics).
* Experienced in configuring, managing and troubleshooting of VMs using Microsoft SQL server 2019, Microsoft SQL Server 2016 and Microsoft SQL Server 2019 Standalone, Cluster and AAG setups.
* Testing the various features developed on HPE OneView software appliance testing integrates HPE 3PAR, HPE Primera and HPE Nimble Storage arrays, with HPE DL and Blade servers and, deploying VMs and managing using VMware and Microsoft Hyper-V Hypervisors.
* Experienced in Testing the features using the REST API.
* Experienced in configuring, managing and troubleshooting of SAP HANA Standalone, System Replication and Service Guard Cluster setups
* Experienced in configuring and administering HPE Recovery Manager Software which integrates SAP HANA and Microsoft Exchange databases with HPE 3PAR StoreServ, HPE Nimble Storage and HPE StoreOnce backup devices.
* Experienced in configuring, managing and troubleshooting of VMs using Microsoft Exchange server 2008, Microsoft Exchange Server 2012 and Microsoft Exchange Server 2016 Standalone and DAG Cluster setups
* Experienced in defining Testing Methodologies, Designing Test Plans and Test Cases, Verifying and Validating and Documentation based on standards for Software Development and effective QA implementation in all phases of Software Development Life Cycle (SDLC).
* Expertise in Manual/Functional Testing, Storage Testing.
* Experience in SAN technologies like clustering, zoning, masking, Storage provisioning LUN creation, and Mapping.
* Experienced in configuring, managing and troubleshooting of VMs using Microsoft Hyper-V 2008, Microsoft Hyper-V 2012 and Microsoft Hyper-V 2016 Standalone and Cluster setups.
* Experienced in configuring, managing and troubleshooting of Active Directory and Domain Controller on windows 2008 R2, Windows 2012 R2 Datacenter, Windows 2016 Datacenter and, Windows 2019 Servers.
* Ability to handle multiple tasks and work independently as well as a team member.
* Experience on VMware vCenter 7.0, 6.7, 6.5, and 6.0 administering and maintenance of VMs.
* Was a part of recruitment as technical panel and also involved into various trainings for new joiners.
* Setting up infrastructure right from scratch including mounting of hardware like server and storage appliances onto racks, cabling from server to storage as per Admin Guide, Power supply and booting up the system to setup a desired platform for testing.
* Received awards, appreciation and recognition from Clients for plethora of projects.

**KEY SKILLS:**

* **Functional:** Analyze and document the customer’s requirements, get it reviewed, create test plan based on analysis document, create test cases and get the same reviewed, bug verification, setup and troubleshoot environment required for testing, identify bottlenecks, gap analysis, prepare status reports (daily, weekly and monthly), list retrospective etc.
* **Technical:** Client server and web technologies, Manual QA Testing, Storage Testing, Functional Testing.
* **Cloud computing**: OpenStack's Nova and Cinder components
* **Storage Hardware**: HPE 3PAR StoreSev, Nimble storage, HPE StoreOnce, EMC Storage.
* **Operating Systems:** CentOS 7, RHEL 7.x, SLES 12.x platforms, Windows 2008 and above.
* **Hypervisor’s:** VMware ESXi 7.0, 6.7,6.5 and Microsoft Hyper-V 2012 and above
* **Internet Tools:** HPE ALM, BugZilla, vCloud.
* **Databases:** Microsoft SQL servers 2008 and above, SAP HANA 1.x and 2.x, Microsoft Exchange servers2008 and above.

# Higher Education

* **2009** Master of Science in Computer Science from Western Illinois University, Macomb, Illinois, USA.
* **2006** Bachelor of Technology (Information Technology) from Vaagdevi College of Engineering, Warangal, Telangana, INDIA.

# Experience

**01Type of Industry:** Enterprise Storage

**Client Name:** Hewlett Packard Enterprise

**Organization: Wipro Technologies**

**Project Description:**

**Recovery Manager Central:**

**Hewlett Packard Enterprise** - Manual testing of ongoing enhancements and bug verification of Recovery Manager Central Modules for SAP HANA (RMC-SH), Microsoft Exchange (RMC-E) on HPE 3PAR Products.

**Role:**

Technical Lead

**Project Duration:**

May 2018 – Till Date

**Responsibilities:**

* Experienced in configuring, managing and troubleshooting of VMs using Microsoft SQL server 2019, Microsoft SQL Server 2016 and Microsoft SQL Server 2019 Standalone, Cluster and AAG setups.
* To Test HPE Recovery Manager Software which integrates Microsoft SQL server with HPE 3PAR Store SERV, HPE Nimble Storage and HPE StoreOnce backup devices.
* Participate and represent team in technical discussions with stakeholders for better coordination and successful completion of activities on-time.
* Architecture design, Product Development for HPE Recovery Manager Central for SAP HANA, as per OpenStack's Nova and Cinder components, Implementation of features for HPE's RMC-SH.
* To make RMC-SH an enterprise SAP HANA database application for data protection and also to ensure data moves seamlessly between Primary Storage, Secondary Storage and Cloud.
* To Test HPE Recovery Manager Software which integrates SAP HANA with HPE 3PAR Store SERV, HPE Nimble Storage and HPE StoreOnce backup devices.
* System development, development and testing in different areas of Storage product (e.g. Configuration, installation Firmware and deployment)
* Understanding of Functional requirements
* Creating Test Plan and providing Test Estimates
* Designing, reviewing and executing Test Cases
* Functional, Regression, Performance and Compatibility testing
* Defect Logging in QC, tracking and debugging
* Experienced in configuring, managing and troubleshooting of SAP HANA Standalone, System Replication and Service Guard Cluster setups.
* Experienced in configuring, managing and troubleshooting of Microsoft Exchange 2008 servers, Microsoft Exchange 2012 and Microsoft Exchange 2016 servers on Standalone and DAG Cluster setups.
* Performed manual Test cases related functional and regression testing on RMC-SAP HANA and RMC-Exchange modules as part of RMC releases.
* Created new test cases and modified tests as per the modification done by development for the module.
* Extensively worked on Nimble Storage replication, Remote copy sync, periodic and SLD scenarios on SAP HANA Standalone, System Replication and Service Guard Cluster setups and Exchange DAG setups and logged Red Zone defects.
* Performed various black box testing Methodologies Like functional testing and Regression Testing.
* Used HP ALM effectively for Defect Tracking and Reporting and updated test results on daily basis.
* Observations during testing was shared with the RMC-Exchange developer for the resolutions and logged defects using Bugzilla portal.
* Configured Microsoft Exchange DAG and Standalone setups.
* Configured ISV backup server (Data Protector, Veritas NetBackup) setups.
* Configured peer persistence setups and executed peer remote copy scenarios.
* Experienced in configuring, managing and troubleshooting of Active Directory and Domain Controller on windows 2008 R2, Windows 2012 R2 DataCenter and, Windows 2016 servers.
* Experienced in configuring, managing and troubleshooting of HA Failover cluster setups on windows 2008 R2, Windows 2012 R2 DataCenter and, Windows 2016 servers.
* Conducted internal trainings and assist team members.
* Worked on Adhoc and functional testing of Recovery Manager Central for Exchange on HPE 3PAR products.
* Prepared DSR, WSR and monthly reports and lead four-member team from client work location.
* Worked and successfully delivered on critical Customer Escalations Requests (CERs) on time.
* Prepared testing metrics, prepared retrospective, and efforts estimation.

**Software / Hardware:**

Windows 7, Windows 10, WINDOWS SERVER 2008 R2, WINDOWS 2012 R2 SERVER, Windows Server 2016, VMware ESXi 6.5,VMware ESXi 6.0, VMware ESXi 5.5, VMware ESXi 5.1,HPE 3PAR arrays 7400 series, HPE 3PAR arrays 10000 series, HPE 3PAR arrays 20000 series, Microfocus Data Protector 10.10, Veritas NetBackup 8.1.

**Databases:** SAP HANA 1.x and 2.x, Microsoft EXCHANGE Server 2008 and above.

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| **02** | **Type of Industry:** | Virtualization |
|  | **Client Name** | VMware |
|  | **Organization Name** | Capgemini India |
|  | **Project Description:** | **VMware Network functions virtualization (NFV):**  **VMware** - Working as a VMware Solution consultant for VMware NFV project of VMware products – VMware vSphere Suite, VMware ESXi, VMware vCloud Director, VMware NSX, VMware vSAN, VMware Site Recovery Manager, vSphere Replication Manager, vRealize Operations Manager, vRealize Loginsight, VMware vCloud NFV, VMware Infrastructure, and physical servers - Dell PowerEdge and HP Servers. |
|  | **Role:** | Consultant |
|  | **Project Duration:** | Nov 2017 – May 2018 |
|  | **Responsibilities:** | * Analysis, documentation and review of the customer’s requirements. * Involved in implementation and validation of VMware NFV architecture for Telco customers. * Build, Deploy and Configure VMware vCloud environment with different VMware products. * Performing interop testing with different VMware products. * Involved in Upgrade testing of different VMware NFV Products * Experience in installing, configuring, managing and troubleshooting of VMs using VMware vCenter 6.5,6.0, 5.5, and 5.1, VMware ESXi 6.5,6.0, 5.5, and 5.1. * Experience in P2V and V2V conversions by using VMware Converter. * Creating Clusters for High Availability (HA) and Distributive Resource Scheduling (DRS). * Experience in performing snapshots on VM’s, cloning, vMotion, creating templates from VM’s and deploy VM’s from templates. * Analysis, documentation and review of the customer’s requirements. * Create and review test plans, test cases, and requirement analysis documents for VMware vCenter server and VMware vSphere. * Configure, troubleshoot test bed and prepare lab test setups for VMware vCenter server and VMware vSphere. * Find discrepancies in the product under test and report bugs in Bugzilla * Experienced in configuring, managing and troubleshooting of HA Failover cluster setups on VMware vCenter 6.5,6.0, 5.5, and 5.1, VMware ESXi 6.5,6.0, 5.5, and 5.1. * Worked on Adhoc and functional testing of VMware products. |
|  | **Software / Hardware:** | Windows 7, Windows 10, RHEL 6.4, WINDOWS SERVER 2008 R2, WINDOWS 2012 R2 SERVER, VMware ESXi 6.5, VMware ESXi 6.0, VMware ESXi 5.5. |
|  | **Special Tools:** | Bugzilla, QC ALM, Failover Cluster Manager, Hyper-V Manager, vSphere web client 6.5, vSphere Client 6.0, vSphere Client 5.5, vSphere Client 5.1 |

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| **02** | **Type of Industry:** | Enterprise Storage |
|  | **Client Name** | Hewlett Packard Enterprise |
|  | **Organization Name** | Capgemini India (Earliest IGATE Global Solutions Ltd) |
|  | **Project Description:** | **Recovery Manager:**  **Hewlett Packard Enterprise** - Manual testing of ongoing enhancements and bug verification of Recovery Manager Modules for Hyper-V, Exchange, VMware and SQL on HPE 3PAR Products |
|  | **Role:** | Consultant |
|  | **Project Duration:** | Jan 2015 – Oct 2017 |
|  | **Responsibilities:** | * Analysis, documentation and review of the customer’s requirements. * Create and review test plans, test cases, and analysis of documents. * Experienced in configuring, managing and troubleshooting of Microsoft Hyper-V 2008 servers, Microsoft Hyper-V 2012 and Microsoft Hyper-V 2016 servers on Standalone and Cluster setups. * File problems reported on defects found in the bug tracking database (QC ALM) to enable SW engineers to debug and resolve problems and improve product quality. * Experienced in configuring, managing and troubleshooting of VMware vCenter Server, ESXi 6.0,5.5,5.1 servers, Microsoft SQL server 2008 and Microsoft SQL server 2012 Standalone and Cluster setups for Recovery Manager modules for VMware, and SQL respectively. * Experienced in configuring, managing and troubleshooting of Active Directory and Domain Controller on windows 2008 R2, Windows 2012 R2 DataCenter and, Windows 2016 servers. * Experienced in configuring, managing and troubleshooting of HA Failover cluster setups on windows 2008 R2, Windows 2012 R2 DataCenter and, Windows 2016 servers. * Conducted internal trainings and assist team members. * Worked on Adhoc and functional testing of Recovery Manager Modules for Hyper-V, VMware and SQL on HPE 3PAR products. * Prepared DSR, WSR and monthly reports. * Worked and successfully delivered on critical Customer Escalations Requests (CERs) on time. * Prepared testing metrics, prepared retrospective, and efforts estimation. |
|  | **Software / Hardware:** | Windows 7, Windows 10, RHEL 6.4, WINDOWS SERVER 2008 R2, WINDOWS 2012 R2 SERVER, Windows Server 2016, VMware ESXi 6.0, VMware ESXi 5.5, VMware ESXi 5.1,HPE 3PAR arrays 7400 series, HPE 3PAR arrays 10000 series, HPE 3PAR arrays 20000 series |
|  | **Special Tools:** | HPE Recovery Manager for Hyper-V, HP Recovery Manager for VMware, HP Recovery Manager for SQL, Bugzilla, QC ALM, Failover Cluster Manager, Hyper-V Manager, vSphere Client 6.0, vSphere Client 5.5, vSphere Client 5.1 |

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| **03** | **Type of Industry:** | | Enterprise Storage | |
|  | **Client Name** | | Hewlett Packard | |
|  | **Organization Name** | | IGATE Global Solutions Ltd | |
|  | **Project Description:** | | **SSMC GUI Manageability:**  **Hewlett Packard** - Manual testing of ongoing enhancements and bug verification of SSMC GUI on HPE 3PAR Products | |
|  | **Role:** | | Senior Engineer – V & V | |
|  | **Project Duration:** | | Aug 2014 to Jan 2015 | |
|  | **Responsibilities:** | | * Analysis, documentation and review of the customer’s requirements. * Create and review test plan, test cases, and analysis of documents. * Configure, troubleshoot test bed and prepare test setup/framework. * Find discrepancies in the product under test and report bugs in Bugzilla and QC ALM. * Upgradation with latest Inform OS of HPE 3par live array on weekly basis. * Conduct internal trainings and assist team members. * Work on Adhoc and functional testing of SSMC GUI on HPE 3PAR products. * Prepare DSR, WSR and monthly reports. * Prepare testing metrics, Prepare retrospective. * Prepare efforts estimation. * Daily status Reporting and interaction with client. | |
|  | **Software / Hardware:** | | Windows 7, RHEL 6.4, WINDOWS SERVER 2008, HPE 3PAR array 7200c | |
|  | **Special Tools:** | | HP SSMC GUI, QC ALM, Bugzilla, VMware vCloud | |
| **04** | **Type of Industry:** | Enterprise Storage | |
|  | **Client Name** | Hewlett Packard | |
|  | **Organization Name** | IGATE Global Solutions Ltd | |
|  | **Project Description:** | **Platform Manageability - StoreOnce:**  **Hewlett Packard** - Manual testing of ongoing enhancements and bug verification of Platform GUI and Tools Testing on HPE StoreOnce Products | |
|  | **Role:** | Senior Engineer – V & V | |
|  | **Project Duration:** | Aug 2013 to Aug 2014 | |
|  | **Responsibilities:** | * Analysis, documentation and review of the customer’s requirements. * Create and review test plan, test cases, and analysis of documents. * Configure, troubleshoot test bed and prepare test setup/framework. * Find discrepancies in the product under test and report bugs in Bugzilla and QC ALM. * Verify the logged bugs in the product. * Conduct internal trainings and assist team members. * Work on Adhoc and functional testing of platform tools on HPE StoreOnce backup systems. * Work on Cabling and troubleshooting of StoreOnce Products. * Prepare DSR, WSR and monthly reports. * Prepare testing metrics, Prepare retrospective. * Prepare efforts estimation. | |
|  | **Software / Hardware:** | WINDOWS SERVER 2008, VMware ESXi 5.5, HP StoreOnce 2700, HP Store Once 4500, HP StoreOnce 4700, HP StoreOnce 4900, HP StoreOnce 6500 | |
|  | **Special Tools:** | HP StoreOnce GUI, QC ALM, Bugzilla | |

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| **05** | **Type of Industry:** | Enterprise Storage |
|  | **Client Name** | Hewlett Packard |
|  | **Organization Name** | IGATE Global Solutions Ltd |
|  | **Project Description:** | **Platform Manageability - StoreAll:**  **Hewlett Packard** - Manual testing of ongoing enhancements and bug verification of Platform GUI and Tools Testing |
|  | **Role:** | Storage Specialist |
|  | **Project Duration:** | Feb 2013 to Aug 2013 |
|  | **Responsibilities:** | * Analysis, documentation and review of the customer’s requirements. * Create and review test plan, test cases, and analysis of documents. * Configure, troubleshoot test bed and prepare test setup/framework. * Find discrepancies in the product under test and report bugs in Bugzilla and QC ALM. * Work on Cabling and troubleshooting of StoreAll arrays. * Work on Adhoc and functional testing of platform tools and StoreAll GUI on HPE StoreAll systems. * Verify the logged bugs in the product. * Conduct internal trainings and assist team members. * Prepare DSR, WSR and monthly reports. * Prepare testing metrics, prepare retrospective and prepare effort estimation. |
|  | **Software / Hardware:** | WINDOWS SERVER 2008, VMware ESXi 5.5, HP GEN7 9320, 9730, GEN8 8800 |
|  | **Special Tools:** | HPE StoreOnce GUI, QC ALM, Bugzilla |

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| **06** | **Type of Industry:** | Enterprise Storage |
|  | **Client Name** | Hewlett Packard, IGATE Global Solutions Ltd |
|  | **Organization Name** | Bartronics Global Solutions LTD |
|  | **Project Description:** | **Platform Manageability - StoreAll:**  **Hewlett Packard** - Manual testing of ongoing enhancements and bug verification of Platform GUI and Tools Testing |
|  | **Role:** | Storage Specialist |
|  | **Project Duration:** | Feb 2013 to Aug 2013 |
|  | **Responsibilities:** | * Analysis, documentation and review of the customer’s requirements. * Create and review test plan, test cases, and analysis of documents. * Configure, troubleshoot test bed and prepare test setup/framework. * Find discrepancies in the product under test and report bugs in Bugzilla and QC ALM. * Work on Cabling and troubleshooting of StoreAll arrays. * Work on Adhoc and functional testing of platform tools and StoreAll GUI on HPE StoreAll systems. * Verify the logged bugs in the product. * Conduct internal trainings and assist team members. * Prepare DSR, WSR and monthly reports. * Prepare testing metrics, prepare retrospective and efforts estimation. |
|  | **Software / Hardware:** | WINDOWS SERVER 2008, VMware ESXi 5.5, HP GEN7 9320, 9730, GEN8 8800 |
|  | **Special Tools:** | HPE StoreOnce GUI, QC ALM, Bugzilla |

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| **07** | **Type of Industry:** | Enterprise Storage |
|  | **Client Name** | Hewlett Packard |
|  | **Organization Name** | WIPRO LTD |
|  | **Project Description:** | **Hewlett Packard** - Remote support for US Customers on HP EVA Arrays and Performing Log Analysis and resolution for issues related to HP EVA |
|  | **Role:** | Technical Consultant |
|  | **Project Duration:** | Oct 2012 to Jan 2013 |
|  | **Responsibilities:** | * Remote support for US Customers on HPE EVA Arrays. * Performing Log Analysis and resolution for issues related to HPE EVA. * Troubleshooting the issues related to HP EVA using P6000 command View EVA. * Troubleshooting on HPE EVA Products like EVA 4000/6000/8000, EVA 4400/6400/8400. * Attended Training conducted by HPE Team on HP EVA products. * Attended Training conducted by HPE Team on HP Storage Work on Cabling and troubleshooting of StoreAll arrays. |
|  | **Software / Hardware:** | WIN7, LINUX (RHEL, UBUNTU), WINDOWS SERVER 2008 R2, HP EVA 4000/6000/8000, HP EVA 4400/6400/8400 |
|  | **Special Tools:** | HP StoreOnce GUI, QC ALM, Bugzilla |

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| **08** | **Type of Industry:** | EMC Storage |
|  | **Client Name** | EMC Corporation, Compunnel Software Group, Inc. |
|  | **Organization Name** | Covant Sol |
|  | **Project Description:** | **New Product Readiness:**  **EMC** - Installation, configuration and supporting EMC Avamar, EMC Networker, EMC Data Domain and, Brocade Labs for delivering training and assessments for EMC Global Services, their partners and, customers. |
|  | **Role:** | Technical Education Specialist |
|  | **Project Duration:** | Sep 2010 to Dec 2011 |
|  | **Responsibilities:** | * Creating and configuring RAID groups, storage groups, binding LUN’s, Naming, Resizing, Lun migrations and Unbinding LUN’s through NaviSphere manager and NaviCli. * Installing and troubleshooting Qlogic and Emulex HBA’s to provide SAN access for Host integration. * Administered user and group permissions in Windows 2003 and Windows 2008 Active Directory using Group Policy. * Worked on VMware vSphere 4.1 to partition physical servers in multiple virtual machines for sharing of physical resources. * Created File systems on the newly allocated disks and configured them using EMC Networker 7.6.2. * Worked with backup team in scheduling and performing regular backups using EMC NetWorker 7.6.2. * Worked on EMC NetWorker 7.6.2 to configure, backup, restore and maintain backup policies. * Monitored EMC NetWorker 7.6.2 backup’s status and escalated the backup issues. * Installation, configuration and supporting Avamar, EMC Networker, EMC Data Domain and, Brocade Labs for delivering training and assessments for EMC Global Services, their partners and, customers. * Performed restoring the lost files on to the storage arrays, Windows and UNIX hosts using EMC Networker 7.6.2. |
|  | **Software / Hardware:** | Windows 2003 / Windows 2008 R2, RHEL 5, EMC Symmetrix Dmx4/DMX3, Cisco 9518, 9513, 9216 directors, EMC CLARiiON CX 700, Brocade Switches, Navisphere 6.X, NaviCLI, EMC Networker 7.6.2, Snapview, Mirrorview, EMC powerpath, SRDF, Brocade 5000 and 4900, McData 3232, vCenter Server 4.1, vCenter Server 5.0. |
|  | **Special Tools:** | NA |

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| **09** | **Type of Industry:** | IT Consulting |
|  | **Client Name** | Covant Sol |
|  | **Organization Name** | Covant Sol |
|  | **Project Description:** | **Covant Sol** - Designed procedures, setting up Daily Checklist procedures, and Administration duties and Installation, Upgradation, Troubleshooting of Sun Solaris 8,9,10. |
|  | **Role:** | Unix Administrator |
|  | **Project Duration:** | Jul 2009 to Sep 2010 |
|  | **Responsibilities:** | * Installation, Upgradation, Troubleshooting of Sun Solaris 8,9,10. * Sun Cluster Administration with VxVM and SVM. * Legato backup tool administration with performing backup and recovery operations. * Managing users accounts on the servers and monitoring, administering the performance on the servers. * Administering software packages and patches. * Configuring NFS, NIS server and client. * Designed procedures, Setting up Daily Checklist procedures, and Administration duties. * Support for licensing, privilege classes, and registration. * Managing the network across SAN devices like Net appliance, brocade switches. * Installed and configured VERITAS volume manager, VERITAS cluster server. |
|  | **Software / Hardware:** | RHEL 5, Sun Solaris 8,9,10, VERITAS volume manager |
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# Training, Certifications & Affiliations

* EMC 20-001, EMC Information Storage Management, EMCPA in 2009.
* NetApp NSO-153, NetApp Storage Networking, NCDA in 2009.
* NetApp NS0-163, NetApp Data Protection Solutions, NCDA in 2010.
* VCP 4.1, VMware Certified Professional, VCP in 2011.
* VCP 6.5, VMware vSphere 6.5 Foundations in 2018.
* Completed 5 Day Training on VMware vSphere: Install, Configure, Manage [v6.5] in 2017.
* Completed 5 Day Training on EMC Avamar Administration, Installation and Configuration in 2011.
* Completed 5 Day Training on CCNA Boot Camp in 2011.
* Completed 5 Day Training on VMware vSphere: Install, Configure, Manage [V41] in 2011.
* Completed 5 Day Training on EMC Data Domain Administration, Installation and Configuration in 2011.