

**VIDYA SAGAR KOYYA**

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## SUMMARY

* Over **Eight years** of experience as **AIX** / **Solaris / Linux/ UNIX/ Windows Administrator with experience in** provisioning, upgrading and configuring and administering AIX 5.3,6.x, 7.x (Power7) Solaris 9&10, Centos 5.0, 6.x, Oracle Linux, Hadoop and Red hat Linux 3.x, 4.x, 5.x, 6.x environments.
* **Installation, Up gradation, configuration and Capacity Planning of** Unix/Linux infrastructure for mid to large data centres.
* **Monitoring** and **administrating** of IBM- AIX, Sun Solaris Servers for operating systems, and Red Hat Linux on Enterprise class servers, patches, packages, hardware, firmware drivers etc.
* Expertise in systems performance monitoring & tuning: CPU, Disk, Memory, Network Utilization.
* Experience in setting up network environment using **UFS, ZFS, NFS, NIS, DNS** and **DHCP**.
* Proficient in Backup utilities, restoring using **Tar, CPIO**, **VERITASNet Backup**
* Experience in migration of **Physical to physical and physical to virtual servers**.
* Experience working on **LAN/WAN** and **TCP/IP Protocols (Telnet, FTP. etc.).**
* Experience in installing and configuration of TCP services as **HTTP, FTP, SSH, DNS, DHCP.**
* **Performance Management & Tuning** of AIX 5.3/6.1/7.x UNIX Kernel.
* Device management, including adding, changing, and configuring physical and logical devices.
* User Management - Creating, maintaining, and removing **users and groups**. Security settings on user accounts and groups.
* Troubleshooting **system/network** related issues within **SLA framework**.
* Upgraded server using **RPM package Manager** and **YUM**
* Experience in writing shell scripting using **ksh, csh, bash, sed, awk**to automate administrative tasks. Using shell scripts I did checking for database locks, log monitors, storing stats, disk usage into the database, killing runaway processes, offsite backups for systems, High frequency monitoring of system on regular bases.
* Experienced in working with different teams such as Network engineering, Database, Storage and application to resolve the issues and provide Customer ERP Installations Satisfaction.
* Experience in providing **24x7 technical support to the environments by being** on-call rotation.
* Experience in using hardware (HP **Smart Agent**) and software **RAID (0/1/5)** installation, configuration of volume management using VERITAS Volume Manager (3.5/4.x/5.0) and Logical Volume Manager.
* Managing and mounting file systems (using NEWFS, FORMAT, FSCK, MOUNT, VOLD) And Installing the Solaris operating system.
* Experienced with installing and upgrading operating system on client using various methods including **NIM installation** using and creating lpp\_source and SPOT.
* Configuration of new devices using cfgmgr – faulty disk Replacement in case of any disaster. Working with mirrored logical volumes. Device management, including adding, changing, and configuring physical and logical devices.
* Installation, configuration and administration of **VIO server**and **VIO client** LPAR’S via HMC and configuration of the virtual devices and adding/removing devices using **DLPAR**.
* Installation of patches, packages and application software on AIX 5.3/6.1/7.1, and (LINUX, Solaris) Servers
* Experience with large scale distributed systems
* Experienced in maintenance and troubleshooting of **HACMP 5.3/5.4**and Performed HACMP Failover and Fall back.
* Having Good experience in GPFSandZFS.
* Configured HACMP 5.3 to monitor, detect and react to failure events, allowing the system to stay available during random, unexpected software problems
* Strong Experience in User Account Administration, adding and creating devices, patching, AIX backup/restore and changing kernel parameters.
* Adept at monitoring and managing file system usage, hardware and system process failures
* Hands on experience with infrastructure automation tools like **Puppet** and **Chef.**
* Day to day administration of the Development, Production Critical and Test environment systems.
* Experience in planning, documenting and supporting high availability, data replication, business persistence**,** fail-over and fail-back processes.
* Experience in using **Blade Logic**, **Site Minder.**
* Having good experience on **ITIL process** (Incident Management, Problem Management, Change Management etc.)
* Highly motivated **Team Player** with **Excellent Communication** skills and P**roblem Solving** abilities. Can work independently or as part of a team

**TECHNICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | AIX (5.3,6.1&7.x),Red hat AS/ES 2/3/4/5/6, Oracle linux, Linux, Solaris 9/10, Windows. |
| **Hardware** | IBM pSeries (**p550, p570, p590, p595, p630, p650, p670, p690, p770,p780 & p880**), SunfireVseries- 240, 440, 480, 880, M 3000,M 5000,E15k, E20k,E25k, Dell Power edge, |
| **Languages** | C, C++, FORTRAN and Pascal |
| **Database** | Oracle 9i, 10g, DB2, MS Access, MYSQL 3.X. |
| **Web Applications** | XML, S0AP, REST, Git, Jenkins |
| **Scripting** | Puppet, Chef, Ansible, Shell Scripting, Perl (KSH & Bash) scripting |
| **Networking** | TCP/IP, NFS, Telnet, FTP, NTP, DNS, DHCP, NAT, ifconfig, route, Netstat, Xinetd, HTTP, SQUID, SAMBA |
| **Web/APP Servers** | Apache Web Server, Tomcat Web Server, Web sphere |
| **Storage** | IBM-XIV, NetApp, EMC. |
| **Tools** | VMWare, PcAnyWhere, HP-ILO, IBM-RSA, Dell –RAC |

**PROFESSIONAL EXPERIENCE:**

**Client: INOVA Health System, Sterling VA**

**March 2016 – Till date**

**Role: AIX/UNIX Consultant**

**Responsibilities:**

* Responsible for all aspects of **System Administration** and support for all  servers such as: OS installation, upgrade, OS problem resolution, application of OS fixes, installation of application software, administration of user accounts, system configuration, troubleshooting, system monitoring, system tuning, security updates, hardware maintenance, disk usage maintenance, etc.
* Perform troubleshooting, performance tuning and capacity planning, and troubleshooting of issues with minimal down time or no outage during working hours and have backup plans for **critical Production Servers.**
* Installation and Configuration of **Network Installation Manager (NIM),** configuring the NIM master and assigning the clients and taking the **mksysb** of the NIM client on the NIM master
* Server OS Installation, ML, TL installation and management. Installing any third party tools as and when required. Using alternate disk installation method for the same for critical servers to reduce down time.
* NFS Administration, exporting files systems, mounting exported file systems, working with nfs daemons and fixing any mounting issues.
* Configuration of new devices using cfgmgr – faulty disk Replacement incase of any disaster. Working with mirrored logical volumes. Device management, including adding, changing, and configuring physical and logical devices.
* New system planning, System related problem determination and resolution.
* Keeping the complete backup of the system and restoring data in the event of disk failure.
* Restoring the server from the mksysb image and bringing up the server.
* Installed and configured Sudo for users to access the root privileges.
* Performing Failovers in HACMP / cluster environment, monitoring servers
* Configuration and administration of **Fiber Adapter’s** and handling **SAN disks on AIX**
* Experience working on **HMC**, installing and configuring **VIO Server, LPARs/DLPARs** and subsequent maintenance and administration
* Create partitions, partition profiles, and system profiles, Activate partitions, and Schedule operations for partitions, dynamic operations for adding, moving, and removing memory, processor resources, and I/O slots.
* Create /Installed/Configured Single **Virtual I/O server** with **MPIO** access to storage.
* Created/Installed/Configured **Dual Virtual I/O servers** with SEA failover.
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using **Logical Volume Manager (LVM**) commands.
* Maintained availability, increased capacity & performance of production machines by upgrading their hardware (disks, CPU, memory, I/O board, power cooling unit, mother board etc.) & firmware.
* Security, users, groups administration and daily backup and restore operations, networking service, performance, and resource monitoring.
* Experienced in monitoring system performance on slow servers and check the **errpt** and also status of the system using utilities such as **TOPAS, SAR, NMON, VMSTAT and IOSTAT.**
* Coordinate and **facilitates problem resolution** by engaging a variety of support teams
* Installed and Administered **Veritas volume manager6.0** on Ultra Sparc E250, E450, Sun E3000 machines and configured **RAID 0, RAID 1, RAID 0+1** and **RAID 5.** Created vmdisks, plexes, and volumes using the volume manager according to the requirements. Replaced failed disks using vxdiskadm
* Gathered performance statistics on the nodes and tuned them to meet the requirements and documented the modified configuration.
* Experience in setting up full networking services and protocols including **NIS/NFS, DNS, SSH, DHCP, TCP/IP, ARP,** applications, and print servers to insure optimal networking, application, and printing functionality.
* Experienced in creating Logical Partitions (LPARs) on Tivoli Storage Manager (TSM), EMC storage, IBM Systems.
* Experience on maintaining and **adding printer queues** to the servers.
* Strong experience in **System Administration, Installation, Upgrading, Patches, Migration**, **Troubleshooting, Backup, Disaster Recovery, Performance Monit**oring and Fine-tuning on UNIX (SUN Solaris, Red Hat Linux)Systems.
* Experience on IBM-XIV LUN Operations. Aggregate & Volume Management in Netapp storage.
* Experience on Trouble shooting servers booting issues by login **ILOs.**
* TCP/IP Configuration like assigning IP addresses, configuring network interfaces, assigning static routes, hostnames etc.

**ENVIRONMENT:** AIX, Red hat, oracle linux, Solaris, Linux, LVM, Lpar, Dlpar, Wpar, NIM, HMC, VIOS, HACMP, TSM, Monitoring, ILOs, Virtualisation, Mksysb, Networking ,NetApp, IBM-XIV, EMC, Big fix patch management, Cron Jobs, NFS, TCP/IP, DNS, DHCP, TIVOLI, Scripting, backup &Restore,..

**Client: Express scripts, Franklin lakes, NJ. April 2015 – March 2016**

**Role: Sr. UNIX/AIX Administrator**

**Responsibilities:**

* Experience in installing, configuring, managing, maintaining and developing AIX Systems, Linux (Red Hat), Windows 2003 and Solaris servers.
* Installation and configuration of **NIM** master server and clients.
* Migration of **AIX** OS from 5.2 to 5.3 and 5.3 to 6.1 and 7.1 on **pSeries servers.**
* Experience in**Planning and Implementation of Virtualization on p770&880.**
* Expertise to server utilization and sharing I/O resources to reduce total cost of ownership and make better use of IT assets using PowerVM (Advanced Power Virtualization).
* Experience in **MICRO-PARTITIONING**on P series servers.
* Experience in Installation, administration and configuration of **VIO Server** and **VIO client LPAR'S through HMC.**
* Experience in performing **DLPAR** on VIO servers.
* Experience in working with **Shared Ethernet Adapter ,Link Aggregation** and **NPIV** concepts associated with VIO server technology
* Experience with **LVM, NIM**, User & System Resource Management, Job Scheduling and Paging Space Management.
* Experience in creating **CRON** jobs to automate various system administration tasks using Crontab Utility
* Experienced with tools **SMIT,**configured public network with**mktcpip**and backup network with**smittychinet**
* Experienced in monitoring system performance and check the status of the system using utilities such as **TOPAS, GLANCE, NMON, VMSTAT, IOSTAT**, etc.
* Peripheral Experience in **EMC Storage Arrays, ADIC tape libraries, VeritasNetbackup**.
* Experienced in configuring **SSH, DNS, NIS, NFS, LDAP, sendmail, ftp.**
* Excellent presentation, analytical, documentation and interpersonal communication skills.
* Worked **24X7**and **on-call** in production support and trouble shooting on AIX pSeries servers.
* Good working knowledge on IBM **HACMP** 5.x and **NIM Master and Clients.**
* Strong scripting knowledge (**Perl, ksh, bash**) to perform administration and automation tasks.
* Experienced in increasing the file system, create Mirroring, striping and parity using VERITAS volume manager (VxVM).
* Experience in connecting to an **EMC disk subsystem** with **PowerPath and MPIO**.

**ENVIRONMENT:** AIX, Red hat, oracle linux, Solaris, Linux, LVM, Lpar, Dlpar, Wpar, NIM, HMC, VIOS, HACMP, TSM, Monitoring,Virtualisation, Mksysb, Networking ,NetApp, IBM-XIV, EMC, Cron Jobs, NFS, TCP/IP, DNS, DHCP, Scripting, backup &Restore,..

**Client: Mercy health, St. Louis, MO. Dec 2013 – March 2015**

**Role: Sr. UNIX/AIX Administrator**

**Responsibilities:**

* Worked as **Unix** **Administrator** in IT infrastructure environment providing server administration, application administration and automation solutions to support business objectives
* Experience with installations, configuration, upgrade and administration of IBM pSeries and P5/P6/p7 servers on various levels of AIX operating system environments
* Experience with **NIM** installation, setting up NIM servers and clients and defining various NIM resources like **lpp\_source, SPOT, mksysb, image.data, bosinst.data.**
* Configured lpp\_source and SPOT in NIM server and installed AIX on NIM clients using NIM master server
* Created and managed users, managed user and file system quotas, set up network printers and installed client server applications
* Created raw volumes and file systems on AIX for Oracle databases, which will be used as raw data file by the Oracle databases
* Administration and troubleshooting of HACMP clusters
* Create standard LPAR, performing DLPAR operations to manage recourses between machines
* Expertise in Logical Volume Management(LVM) and Disk Management
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using Logical Volume Manager (LVM) commands
* Performed administrative tasks such as System Start up/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management.
* Maintained availability, increased capacity & performance of production machines by upgrading their hardware & firmware
* Managing **cron** jobs, batch processing and job scheduling.
* Installation and maintenance of various hardware and software and peripherals
* Security, users and groups administration
* System and backup management using mksysb and daily restore and backup operations
* Performance management and tuning of AIX UNIX kernel
* Other standard system administration tasks performed, such as system monitoring, performance usage, network support, and user support

**ENVIRONMENT:** AIX ( 5.3, 6.1&7.1), Linux(Red hat & Oracle ), Windows, Oracle DB2, pSeries servers, Virtualization, NIM, LPARs, WPARs, DLPARs, Web Sphere, TSM, HACMP,F5 Load balancer.

**Client: Chelsio Communications, Sunnyvale, CA. July 2012 – Nov 2013**

**Role: UNIX Administrator**  
**Responsibilities**:

* Configured IBM RS 6000/p-series,550,570,520,610 machines for production, staging and test environments
* Setup and configured network TCP/IP on AIX including RPC connectivity for NFS. Created mount points for Server directories, and mounted these directories on AIX Servers
* Hardware Maintenance and System Administration of Solaris servers.
* Configured and administrated VIO server and Lpar clients.
* Administration Tasks included User administration, Performance and weekly mksysb
* Daily roles included dealing with LVM extensively. Strong hold of LVM.
* Daily tasks included dealing with AIX side of SAN. Like troubleshooting Fiber card adapter, replacing Fiber card adapters.
* Responsible for Build, Install, load and configure the boxes.
* Installation and troubleshooting on VMware running Linux (RehHat) and Windows.
* Experience in NetApp storage devices, setup, configuration, operations and connecting to pSeries hardware.
* Setup of full networking services and protocols on AIX, including NIS/NFS, DNS, SSH, DHCP, NIDS, TCP/IP, ARP, applications, and print servers to insure optimal networking, application, and printing functionality.
* Dealing with user id deletion with removing entries from CRONTAB.
* Backup and Recovery using Sysback.
* Experience in connecting to an EMC disk subsystem with Powerpath.
* Installed and configured AIX 5.3 and 6.1 on RS-6000\'s, creating the root volume group application/backup volume groups, logical volumes, and file systems (JFS & JFS2) on RAID Level 5 with appropriate data stripping for protection, and for the optimal performance of the RS-6000 Servers within a High Availability system using DASD, DCE and DFS services.
* Setup of full networking services and protocols on UNIX, including NIS/NFS, DNS, SSH, DHCP, NIDS, TCP/IP, ARP, applications, and print servers to insure optimal networking, application, and printing functionality.
* Responsible for installing configuring and maintenance of GPFS version 2.1
* Experience in working with IBM DS8000, FAStT/DS4800, DS4500 (FAStT 900), USP600, AMS500 and IBM nSeries storage hardware.
* Perform UNIX administrator duties supporting production servers running ERP (SAP) and database (Oracle, data guard, Sybase, PeopleSoft, and DB2).
* Installation and configuration of HTTP Web Server, Apache and WebSphere Application Server.
* Installed application connectivity software to enable IBM print services. Configured and administered firewall rules, including the use of SNORT, NMAP to effectively monitor system files, port security, and network traffic activity coming through the firewall.

**Environment**: AIX 5.3/6.1, Linux(Redhat), Solaris 9/10, Sysback, Mksysb, TCP/IP, NFS, DNS,DHCP, HTTP, Web Sphere Server, Satellite, NetApp storage, DS8000, DS4500, RS/6000 IBM Servers, LVM, LPAR.

**Client: Wright Express, Portland, ME. Oct 2011 – June 2012 Role: UNIX SYSTEM ENGINEER**

**Responsibilities:**

* Administered UNIX servers for several functions including managing Sendmail, Apache/Tomcat server, mail server, MySQL database, and firewalls in both development and production
* Installation, configuration and administration of Red Hat Linux servers and support for Servers.
* Installation, maintenance and regular upgrades of Red Hat Linux Servers using kickstart based network installation
* Provided 24x7 System Administration support for Red Hat Linux 3.x, 4.xservers and resolved trouble tickets on shift rotation basis.
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting.
* Managing Compaq and Linux workstations and servers.
* Installation of patches and other software packages
* Disk and File system management through Solstice Disk Suite on Solaris and other logical volume manager for other flavour of UNIX.
* Monitoring system performance, tune-up kernel parameter, adding /removing /administering hosts, users, disks on DNS
* Configuration of Hardware and Software RAID on Digital & Sun Servers
* Installation of Oracle Patches and Troubleshooting, Creating and modifying application related objects, Creating Profiles, Users, Roles and maintaining system security.
* Administrative tasks such as System Start up/shutdown, Backup strategy, Printing, Documentation, User Management, Security, Network management, dumb terminals and devices carried out.
* Installation and configuration of Oracle 7.x/8.x.
* Implemented NFS, DNS and NIS under SUN.
* Performed the administration of the Domain Name Server and configuration of the Database Files.
* Wrote bash shell scripts for getting information about various Linux servers
* Troubleshooting Backup and Restore problems Creation of LVMs on SAN using Linux utilities
* Monitored overall system performance, performed user management, system updates and disk & storage management
* Performed OS upgrades and Patch loading as and when required.
* Backing up and restoring files across the network
* Wrote Technical documentation for various projects and worked with Technical writer to finalize the documents.

**Environment:** Red Hat Linux 4.1,4.2,4.3,4.4, Solaris 9/10,SVM, NFS, FTP, Samba, Apache Cassandra, Vxvm, KVM, RHEV, VCS, LVM, RAID, SunFire 4500/ V880 / V480/ E420R/ E450/ E250, SunStorEdge L280, Sun StorEdge A1000, D1000, A5000, JBODs Compaq servers, Solstice Disk Suite, Oracle 9i/10g

**Client: HONDA, April’ 2009 – Sep’ 2011**

**Project**: **HONDA R&D**

**Technical Platform**: **AIX, Linux, Solaris, TSM, NetApp, XIV.**

**Role: Module leader.**

* **Responsibilities:**
* User administration and management like add/change/delete Maintaining users level security.
* File System Changes ( size and permissions)
* L1 and L2 AIX Hardware Support and communicate changes for Fabric and Storage Changes.
* Expertise on installation of AIX, LVM operations, VG & LV Creation, extension, mirroring.
* Configuring NIM server. Backup of MkSysb, TL up gradations, NIM Migration.
* Monitoring notifications and alerts / Respond and address alerts / Work with users to determine best course of action.
* LPAR operations including: scheduling operations, troubleshooting activation errors, configuring and using system profiles, and activating and shutting down partitions, Power on/off partitions.
* Configuration and administration of Logical volume manager.
* Working on HMC, administering, resource allocation, moving resources as when required dynamically, performing DLPAR operations on DLPAR nodes, installing OS on LPAR using NIM etc.
* Security / Permissions setup for NFS (File access using NFS).
* Experience in writing shell scripts for Automating manual tasks
* Monitor space ( Storage Provisioning and Disk space management )
* Experience on IBM-XIV LUN Operations.
* Monitor space (Storage Provisioning and Disk Space Management)
* Aggregate & Volume Management in Net app storage.
* Monitor system performance on a daily basis to ensure proper working of applications and provide reliable backup services.
* Perform research and development on new products, technologies, and operating systems as required
* Configuring New Disks, Creating, Monitoring and Troubleshooting File Systems.
* Performance/Utilization Reporting (create reports, analyse, summarize and distribute).
* Support case management (includes weekly support meeting).
* Exposure to ITIL processes.
* Manage ISD requests and c. Support.
* **Environment**: AIX 5.3/6.1, Linux, Solaris, NIM, LPAR, LVM, DLPAR, HMC, VIOS, Mksysb, HACMP, Tivoli Storage Manager, ITIL, Netapp, Hitachi , IBM- XIV storage

**Client: ADP Dec’ 2008 – March’ 2009**

**Project**: **iProducts**

**Technical Platform**: AIX, Solaris, Linux, Windows, Blade Logic, Oracle Database

**Role: Build Release Engineer**

**Responsibilities:**

* Installing and Administering AIX and Linux Production servers in 24x7 environments.
* Monitoring and performing server’s activities by using Nagios/Zabbix. (File System usage, CPU utilization, Process monitoring, System Performance and Network Status).
* Maintenance and Troubleshooting server and client systems enabled with NFS.
* Creating swap memory
* Experience in services like SSH, Telnet, ftp.
* Using Cron tab for automating various Administrative tasks.
* Troubleshooting issues in User Login Problems
* Experience on File system and Disk management.
* Package and Patch Management. Adding and Deleting Packages and patches according to the requirement.
* Knowledge on are Java Server Faces, Struts, J2EE, Oracle, PL/SQL, Shell scripting and IBM MQ Series.
* Administering (Creating, Mount/Unmount, File System Integrity, Backup/Restore) the File Systems (UFS, NFS).
* Backup of SUN and other utilities like Ufs dump, dd, tar, and cpio.
* Monitoring system by errpt and troubleshooting system problems.
* Performing Backup Activity on Development, QA and Performance server.
* Experience in implementation of RAID levels (0, 1& 5).
* Good Knowledge in Oracle database Administration.
* Knowledge in VERITAS Volume Manager and VERITAS Cluster.
* **Environment:** AIX (5.1, 5.2, 5.3), Linux, Solaris(9/10) Windows ,pSeries servers, Blade Logic, Oracle database , VIOS, Dual VIOS, LPARs, DLPARs, NIM, HMC, Korn Shells, RAID,VERITAS, IBM HTTP server, WebSphere, HACMP. J2EE, Oracle, PL/SQL, Shell scripting and IBM MQ Series.

**EDUCATION:**

* Bachelor of Technology majoring in Computer Science, India.