**Karthikeya Devasani**

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**[krishna@adven-it.com](mailto:krishna@adven-it.com)Linux / Systems Administrator**

**Professional Summary:**

* Around 9+ years of strong experience as a LINUX/UNIX System Administrator and Support of various applications on SUN Solaris, Red Hat Linux and Windows environment.
* Expertise in installing, configuring and administering various Linux distributions, including RED HAT Enterprise Linux, Oracle Enterprise Linux, SUSE Enterprise Linux Server, UBUNTU.
* Skilled in the installation and configuration of Web/Apache logic on Linux, Windows and Solaris.
* Installation of SSL certificates Linux servers.
* Monitoring and administering Sun-Solaris servers and Red hat Linux servers.
* Expertise in the set and administration of VERITAS Volume manager and Clusters.
* Configured kickstart servers for complete hands-free installation of workstations, begin/finish scripts and custom package suites/clusters.
* Troubleshooting skills with network protocols such as DNS, TCP/IP, SMTP& SNMP.
* Administration of networking devices such as Routers and Switches.
* Experience in writing Shell scripts using ksh, bash, perl for process automation of databases, back up and scheduling.
* Proficient in configuring logical volume management (LVM), OS native and third party multipathing, NIC bonding, and ensuring the maintenance of logical volumes and file systems.
* Experienced in implementing storage technologies such as DAS, NAS, NFS, SAMBA, and CIFS, ensuring efficient data storage and retrieval.
* Expertise in configuring YUM repositories and patching using RPM, YUM, YAST, APT, and adept at managing open-source applications for optimal performance.
* Skilled in the administration of various network services including FTP, SFTP, HTTP, Telnet, SSH, DNS (bind), DHCP and LDAP, ensuring seamless network operations.
* Utilized HP HPSA tool for server automation software during bulk system implementations, ensuring efficient deployment and management of server infrastructure.
* Expertise in disaster recovery and planning, ensuring robust disaster recovery strategies and business continuity.
* Proficient in Amazon Web Services (AWS) with experience in EC2, ELB and EBS infrastructure setup on the cloud, ensuring efficient cloud infrastructure management.
* Experienced in the creation of private Amazon Machine Images (AMIs), multiple application instances, and load balancers, ensuring efficient deployment and scalability on AWS.
* Skilled in the configuration of CloudWatch and creation of CloudFormation templates, ensuring efficient monitoring and automation of AWS resources.
* Installation of Patches, Hardware, software and Firmware upgrades.
* Strong Knowledge of disk management tools such as Disk suite, VERITAS Volume manager, ZFS and logical volume manager.
* Experience in working with Redhat Satellite server for building and patching servers.
* Working Knowledge of clustering tools such as VERITAS Cluster server and Redhat cluster suite.
* Experience in automation using tools like puppet and also experience in writing scripts to update in crontab. Experienced in Shell Scripting.
* Expertise in PXE, Jumpstart and Kickstart installations for RHEL OE.
* Build, implement and maintain system-level software packages such as OS, Clustering, disk, file management, backup, web applications, DNS, LDAP.
* Good working knowledge of SAN systems.
* Ability to handle multiple tasks and work independently as well as a team member. Provided on-call support and worked with Vendors on system issues and bugs for its resolution.
* Proficient in System administration, System planning, coordination, commissioning, setting up security hierarchy and capacity planning.
* Worked on flexible hours for production, backup and on-call support for 24/7 environments.

**Technical Skills**

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| **Operating Systems** | Linux (RED HAT 5/6), VMWare ESX/ESXI, SUN SOLARIS 8,9,10. HP UNIX, UBUNTU 8, 10,12 |
| **Web/App servers** | Web logic, Web Sphere, Apache Tomcat. |
| **Monitoring Tools** | Nagios and Splunk. |
| **Hardware** | Dell PowerEdge series, HP DL series servers, Sun Fire servers - E25K, 12K, E280R, E480R, V24, 420R, V440, V480, V490 and 4800  Data center Servers – E250, E450 and E3500  Arrays – Sun StorEdge 3130, A1000/D1000 |
| **Networking** | Switches and LAN, DHCP and DNS |
| **Languages** | Shell Script, Batch Script, PowerShell Script. |
| **Backup** | tar, cpio, tape backup, MS Backup, Ufsdump, |
| **Web Technologies** | WebSphere, JBoss, I Planet, Servlets, JDBC, JSP, HTML |

**Professional Experience:**

**Client: Cigna, Bloomfield, CT Jan 2023 to till Date**

**Role: Linux System Administrator**

**Project Description:** Cigna, a global health service company, is dedicated to improving the health, well-being, and peace of mind of those it serves. As part of its commitment to delivering high-quality health services, Cigna relies on a robust and secure IT infrastructure. This project was focused on providing comprehensive system support, ensuring high availability, and optimizing performance across various platforms. The primary objective of this project was to enhance the operational efficiency and reliability of Cigna's IT infrastructure by providing system support for Solaris, CentOS, and Red Hat Linux servers. This involved routine maintenance, patching, system backups and restores, and hardware and software upgrades. Additionally, the project encompassed provisioning and managing servers in AWS environments, establishing and maintaining continuous integration and deployment pipelines, and ensuring network and data security compliance.

**Responsibilities:**

* Provided system support for Solaris, CentOS and Redhat Linux servers including routine maintenance, patching, and system backups and restores, and software and hardware upgrade.
* Provisioning and managing servers in Confidential AWS environments, ensuring smooth operation and high availability.
* Setting up the Chef Workstation and Chef Nodes.
* Worked closely with different teams across the environment.
* Linux Kernel tunable knowledge - security, network (TCP, UDP,), and memory.
* Strong knowledge of design, implementation, and support of networked systems and technologies such routers, switches, file servers, DNS, and LDAP.
* Experience with VMware Virtualization using ESX hypervisor of Vsphere 5.1.
* Expanded the environment from 128 to over 280 systems over the course of 12 months.
* Handling CI/CD pipelines, ensuring efficient deployment and continuous integration.
* Maintained network and data security, maintained security compliance policies on the OS for internal audits.
* Installed, upgraded and configured Ubuntu 14.04/16.04 and Red hat Enterprise Linux 5/6 using kick start.
* Experience in supporting amazon AWS S3 and EC2 instances.
* Installed & configured Guest operating system like Red hat 5.x, 6.x and Sun Solaris on VMware ESX 5.x.
* Installed and configured various middleware packages such as Tomcat, Jboss.
* Network Monitoring Using Nagios tool.
* Network troubleshooting using 'ndd', 'traceroute', 'netstat', 'ifconfig' and 'snoop' etc.
* Developed automated processes that run daily to check disk usage and perform cleanup of file systems on environments using shell scripting.
* Used Fabric, a tool for remote execution and deployment to Automate Administration Tasks and Deployments.
* Delivered OpenStack solutions into customer environments and ensures solutions works as specified.
* Solved complicated defects related to memory leaks, design issues, LDAP protocol issues, etc.
* Installed and maintained WebSphere Application server in Linux Platform.
* Developing comprehensive checklists based on CIS Benchmark to identify and mitigate security vulnerabilities across various platforms.
* Configuring and maintaining Linux (Red Hat) virtual environments, optimizing performance and resource utilization.
* Evaluating and installing recommended patches to keep systems up to date and secure.
* Re-engineered the company’s systems setup, establishing automated server generation routines, optimizing system performance, installing upgrades/patches, establishing system monitoring and maintaining security protocols.

**Environment:** Shell Script, Apache Web Servers, AWS, Red hat, CentOS, Linux, CI/CD, VMWare, NFS Server, Apache Tomcat, CentOS 6.5,7, Red Hat Enterprise Linux 5.0, Solaris 9/10, VERITAS netback up, HP-UX 11.20.

**Client: Verizon, Basking Ridge, NJ July 2020 to Dec 2022**

**Role: Linux Administrator**

**Project Description:** Verizon, a leading global telecommunications company, is committed to delivering innovative communications and technology solutions that improve the way its customers live, work, and play. As part of maintaining its extensive and complex IT infrastructure, this project focused on advanced system administration, optimization, and support across various UNIX and Linux environments to ensure seamless and secure operations. The primary goal of this project was to provide comprehensive installation, configuration, maintenance, and support for multiple operating systems, including Solaris, RedHat Linux, SUSE, HP-UX, and IBM AIX. The project also involved setting up and managing network infrastructure components, ensuring high availability, security, and performance optimization across the board.

**Responsibilities:**

* Installing Configuration and maintenance of Solaris 9/10/11, RedHat Linux 4/5/6, SUSE 10.3, 11.1, HP-UX 11.x and IBM AIX operating systems.
* Configured NIM in AIX 5.x, 6.x, 7.x, Kickstart Server in Linux 4.x, 5.x and JumpStart Server in Solaris 9, 10 u.x and build servers using NIM, Kickstart and JumpStart server.
* Text processing, also in network programming with Perl Scripting.
* Worked with installation, configuration, tuning, security, backup, recovery and upgrades of UNIX and Linux (Red Hat, Ubuntu, and SuSE).
* Creating, cloning Linux Virtual Machines, templates using VMware Virtual Client 3.5 and migrating servers between ESX hosts.
* Installation of OAS (Oracle Application Server) on Solaris 9 and its configuration with oracle database.
* Tuning the kernel parameters based on the application/database requirement.
* Used Veritas File system (VxFS) and Veritas Volume Manager (VxVM) to configure RAID 1 and RAID 5 Storage Systems on Sun Solaris.
* File system tuning, growing, and shrinking with Veritas File system 3.5/4. x.
* Installed and configured GFS cluster for holding databases.
* Manage user accounts for the team access for Redhat Satellite Server.
* Troubleshooting hardware, software and configuration problems for various protocols and topologies.
* Installation, Configuration and Administration of Web Logic, WebSphere and Apache Servers in Linux and Solaris Servers.
* Configured open LDAP Red Hat Linux systems.
* Install and configure DHCP, DNS (BIND, MS), web (Apache, IIS), mail (SMTP IMAP and POP3) and file servers.
* Maintaining Remedy environments used for the ticketing system.
* Created new slices, mounted new file systems and uncounted file systems.
* Expertise in troubleshooting systems and managing LDAP, DNS, DHCP and NIS.
* Worked with different Active directory databases like Microsoft AD, Tivoli Directory server with LDAP.
* Worked on making DNS entries to establish connection from server to DB2 database.
* Performed patching, backups on multiple environments of Solaris, Linux and VMware.
* Involved in preparation of functional and system specifications. Estimated storage requirements for applications.

**Environment:** Red Hat Linux (RHEL 3/4/5), Solaris 10, Logical Volume Manager, Sun & Veritas Cluster Server, VMWare, Global File System, Redhat Cluster Servers.

**Client: Yahoo, Sunnyvale, CA Aug 2018 to Jun 2020**

**Role: Linux Engineer**

**Project Description:** Yahoo, a pioneer in the digital world, continues to provide a vast array of internet services and content to millions of users globally. Maintaining a resilient and efficient IT infrastructure is crucial to Yahoo's operations. This project focused on the installation, configuration, and administration of Linux systems to ensure high availability, performance, and security, supporting Yahoo's extensive business operations. The primary aim of this project was to support and optimize Yahoo's Linux-based infrastructure through expert system administration practices. This included performance monitoring, server configuration, automation of routine tasks, and ensuring robust network and security setups. The project also involved managing virtualization technologies and providing extensive support for Windows applications in enterprise environments.

**Responsibilities:**

* Installing, configuring, and administering Linux to support business operations and ensure system availability.
* Worked on creating and removing files and directories in Linux servers.
* Performance monitoring with Ksar, iostat, vmstat, mpstat and Other Tools.
* Configured and maintained Samba Server, NFS Server, NIS Server and clients, DNS clients and AutoFs File systems.
* Configuring the FTP server to maintain the shared folders in organization.
* Managed RedHat Linux installations, configurations, and application maintenance performed automated OS installations using kickstart.
* Administered the SCCM environment, handled software updates packages, and monitored system logs and activities.
* Resolved system and process issues reported by Nagios, automated daily tasks with Shell and Perl scripts.
* Installed, configured, and supported Apache and Tomcat on Linux production servers, managed routine backups and scheduling jobs.
* Bash shell scripts for automating routine activities, experienced in Red Hat Linux package administration using YUM.
* Creating CRON jobs for file backups to ensure data protection and integrity.
* Installing, configuring, and updating LDAP, DNS, DHCP provide essential network services.
* Setting up and configuring Network, switches, routers, and Firewall to ensure network connectivity and security.
* Assisted in setting up and maintaining DNS and DHCP servers, deployed and managed virtualization technologies like VMware.
* Provided extensive support for Windows applications in enterprise environments.
* Resolved system and process issues reported by Nagios, automated daily tasks with Shell and Perl scripts.
* Performed RPM and YUM package installations, patching, and other server management tasks.

**Environment:** RHEL, Solaris, AIX, Windows, PowerShell, Python, RedHat Linux, Shell, Perl, Cron, Apache, VMware, Oracle 9i,10g, Mail server, Listserv, Veritas volume, Windows servers 2000, 2003, 2008, XP.

**Client: Alight Solutions, Hyderabad, India Jun 2014 to Mar 2018**

**Role: Linux Engineer**

**Project Description:** Alight Solutions, a leading provider of integrated human capital and business solutions, relies on a robust and secure IT infrastructure to deliver its services efficiently. This project focused on the comprehensive management and optimization of UNIX and Linux systems to support Alight Solutions' business operations, ensuring system reliability, performance, and security. The primary objective of this project was to administer and optimize UNIX and Linux systems, ensuring their availability and performance to support Alight Solutions' extensive operations. This involved expanding file systems, managing server services, configuring and maintaining web and network services, and automating routine tasks. The project also included ensuring system security through patch management and network configuration.

**Responsibilities:**

* Expanded file system using Solaris Volume Manager (SVM) on the fly in Solaris boxes.
* Managed and upgraded UNIX's server services such as Bind DNS.
* Configuration and administration of Web (Apache), DHCP and FTP Servers in Linux and Solaris servers.
* Supported the backup environments running VERITAS Net Backup 6.5.
* Managed RedHat Linux installations, configurations, and application maintenance performed automated OS installations using kickstart.
* Administered the SCCM environment, handled software updates packages, and monitored system logs and activities.
* Maintained Red Hat AS and ES, troubleshooted hardware, OS, and application performance issues, deployed latest patches.
* Resolved system and process issues reported by Nagios, automated daily tasks with Shell and Perl scripts.
* Installed, configured, and supported Apache on Linux production servers, managed routine backups and scheduling jobs.
* Creating CRON jobs for file backups to ensure data protection and integrity.
* Installing, configuring, and updating LDAP, DNS, DHCP, NFS, NIS+ to provide essential network services.
* Setting up and configuring Network, switches, routers, WAN, and Firewall to ensure network connectivity and security.
* Patching RHEL5 and Solaris 8, 9, 10 servers for EMC Power path Upgrade

**Environment:** RedHat Linux, Shell, Perl, Cron, RHEL, Solaris, AIX, Windows, PowerShell.