

SANDEEP MENAPATI

Linux System & Hadoop Administrator

BASIC INFORMATION

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PROFESSIONAL SUMMARY

System Administration:

- **Environment:** Red Hat Enterprise Linux, CentOS, Ubuntu, Windows Server
- **Server Maintenance:** Maintained Dell servers using Proxmox GUI and IDRAC.
- **Proxmox Administration:** Upgraded and configured Proxmox on Dell servers with Ceph and pools.
- **Virtualization:** Created templates, virtual machines, performed cloning, and migrations.
- **VPN Management:** Created VPN users in Cisco routers.
- **System Administration:** Planned, installed, configured, maintained, and administered CentOS, Ubuntu, and Windows Server.
- **OS Management:** Installed, configured, and upgraded Linux operating systems and software packages using package managers and source code compilation.
- **User and Group Management:** Administered user accounts, groups, and set file/folder permissions.
- **Volume Management:** Utilized LVM to extend the size of volumes.
- **Networking Protocols:** Knowledgeable in SCP, SFTP, DNS, DHCP, SUDO, HTTP, SMTP, SSH, VPN, TLS/SSL, TCP/IP, and IPv4.
- **Kernel Management:** Managed the updating and patching of kernels.
- **Database:** Basic knowledge of MySQL.
- **System Monitoring:** Monitored system performance and implemented performance tuning strategies using Grafana.
- **Collaboration:** Worked with cross-functional teams to design and deploy infrastructure solutions, including virtualization (VMware ESXi, Oracle VirtualBox, KVM) and cloud platforms (AWS, Azure).
- **VMware Administration:** Experienced with VMware ESXi server, storage, networking, vSphere, vCenter, vMotion, VM creation and management, VM migration, HA clusters, templates, and snapshots.
- **SMTP Configuration:** Configured and maintained SMTP mail servers.

Hadoop Administration:

- **Cluster Management:** Installed, configured, and managed Hadoop clusters using Cloudera and Hortonworks distributions.
- **Cluster Planning:** Experienced in Hadoop cluster capacity planning, performance tuning, monitoring, and troubleshooting.
- **High Availability:** Configured HDFS HA, HA on Resource Manager, and HA mode on Hive.
- **Backup and Recovery:** Configured backups and recovered from NameNode failures.
- **Data Migration:** Copied data between Hadoop clusters.
- **Node Management:** Commissioned and decommissioned nodes in existing clusters.
- **Hadoop Ecosystem:** Installed and managed various Hadoop daemons and ecosystems.
- **Log Analysis:** Analyzed log files for Hadoop and its ecosystem services to find root causes of issues.
- **Trino Cluster:** Installed, configured, and managed Trino clusters, integrating Apache Hive and setting up

Trino password file authentication.

- **Shell Scripting:** Automated logs and backup processes using shell scripting and cron jobs.
- **MinIO Cluster:** Installed, configured, and managed MinIO clusters, migrating HDFS to MinIO S3 object storage.
- **Reporting Tools:** Installed and configured Apache Superset.
- **Apache Ranger:** Installed and configured Apache Ranger, managing access permissions for specific users or groups on selected columns.
- **Clickhouse:** Installed and configured Clickhouse, managing data migration from different databases to Hadoop.
- **AWS Hadoop Management:** Installed and maintained Hadoop clusters on AWS EC2 instances.
- **Hadoop Technologies:** Experienced with Hadoop HDFS, MapReduce, TEZ, YARN, Hive,, Ranger, and NiFi.

TECHNICAL OVERVIEW

- **Virtualization:** Proxmox, VMware ESXi, RedHat Virtualization
- **Networking:** SFTP, SCP, DNS, HTTP, TCP/IP
- **Cloud Platforms:** AWS
- **Big Data Technologies:** Apache Hadoop, HDFS, MapReduce, TEZ, YARN, Zookeeper, Hive, Ranger, NiFi, Zeppelin, HUE, Superset
- **Distributions:** Hortonworks (HDP & HDF), Cloudera (CDH, CDP, CDF)
- **Query Engines:** Trino
- **Object Storage:** MinIO
- **Databases:** MySQL, MariaDB, Clickhouse
- **Scripting:** Shell Scripting

Tools Usage:

- Ansible, GitLab, Grafana, Asana, Slack, MS Teams

Ticketing Systems:

- ServiceNow, Jira, ITSM, Outlook, SharePoint

Operating Systems:

- Windows, Mac, RedHat Linux, CentOS, Ubuntu

WORK EXPERIENCE

InnData Analytics Private Limited, Visakhapatnam.

Jan 2020 - Present

PROFESSIONAL EXPERIENCE

Project-1: Myanmar Posts and Telecommunications (MPT)

- **Client:** Myanmar Golden Rock
- **Role:** Hadoop Administrator
- **Environment:** Hortonworks, RedHat Virtualization, CentOS Linux, RedHat Linux

Responsibilities:

- Involved in the complete setup of the Hadoop cluster including installation, configuration, and monitoring.

- Upgraded Hadoop clusters to stable Hortonworks releases.
- Maintained the cluster by commissioning and decommissioning data nodes, monitoring clusters, troubleshooting issues, and managing backups.
- Designed and implemented Hadoop deployment architecture.
- Transferred data between Hadoop clusters.
- Managed and reviewed Hadoop log files for troubleshooting.
- Installed various Hadoop ecosystem components and daemons.
- Ensured high availability of the cluster by following standard backup policies.
- Collaborated with the systems engineering team to plan and deploy new Hadoop environments and expand existing clusters.
- Addressed daily issues with the data engineering team related to NiFi.
- Participated in hardware server installation and data center operations.

Project-2: Security Systems, USA

- **Client:** Kapalya
- **Role:** System Administrator
- **Environment:** Ubuntu, Windows Server

Responsibilities:

- Deployed and managed Ansible AWX using Docker containers on a Linux server.
- Automated deployment and configuration of applications on Windows servers using Ansible AWX.
- Developed, tested, and maintained Ansible playbooks stored in GitHub for version control and collaboration.
- Used SQLite for lightweight, file-based storage of configuration and state information.
- Automated backups and data replication using Minio and ReplicaDB, ensuring data integrity.
- Integrated Grafana for real-time monitoring and visualization of server performance metrics and alerts.

Project-3: AYA Bank, Myanmar

- **Client:** Myanmar Golden Rock
- **Role:** Hadoop Administrator
- **Environment:** Hortonworks, CentOS Linux

Responsibilities:

- Handled end-to-end Hadoop cluster setup including installation, configuration, and monitoring.
- Installed, configured, and managed MinIO S3 object storage clusters.
- Migrated data from HDFS to MinIO S3 object storage.
- Installed, configured, and managed Trino clusters, including the integration of Apache Hive.
- Configured Apache Ranger for user access permissions on selected columns.
- Installed and configured reporting tools such as Apache Superset.
- Installed, configured, and managed Clickhouse databases.

QUALIFICATION

Bachelor Of Technology

Vignan's Lara Institute Of Technology And Science, Guntur

2012 - 2016