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**Summary**:

* Experience on storage Administration and troubleshooting NetApp FAS Filers and enterprise storage arrays including EMC, Hitachi storage arrays.
* Ability to Handle around **10PB** of data across several data centers.
* Extensive hands-on experience with maintaining and troubleshooting **EMC** storage arrays such as **VMAX-20K**, **Xtreme-IO**,**ISILON**, VNX-5700, Clarrion series.
* Extensive hands-on experience in administering NetApp FAS 6240, 3270, 3250, 3220, 3210, 2240-2, 2040, IBM N series N7900, N7950 filers.
* SAN Switch administration using CLI, Brocade Web tools and Cisco Fabric manager and Cisco Device Manager.
* Experience with creating VSAN using GUI and CLI.
* Troubleshooting Brocade 48000 director, DCX -8510 class fiber channel switch, Cisco director fiber channel switches, Net app filers and EMC arrays.
* Working experience on Data ONTAP 8.1.2, 8.0.x, 7.3.x and CDOT 8.2, 8.1.3.
* Over a year of experience using CDOT – Clustered data ontap 8.2 and 8.1.3.
* Configured VSM and Logical Interfaces (LIF’s) on CDOT 8.2.
* Expertise in administering **VMAX-20K** using UNISPHERE and Symcli.
* Experience in administering EMC-**ISILON**, **VNX**, **X-treme IO, Clarrion** arrays.
* Experience in configuring **EMC FAST policy** on Storage tiers.
* Hands on Experience in configuring **Time finder Mirror, SNAP** sessions on VMAX.
* Experience in creating checkpoints and check point schedule for **SNAPSHOTS** on VNX.
* Involved in daily tasks like Storage provisioning and SAN monitoring.
* Working Knowledge of VMware V-Sphere 4.1,5.1,5.5.
* Expertise in HP storage arrays such as HP P9500 XP 24000, XP12000 and XP 1024.
* Expertise in Cisco Director switches including MDS 9500 and 9100 series, and Brocade DCX & 48000.
* Installation, configuration and maintenance of Storage Area Networks in a heterogeneous environment using Hitachi VSP, USPV and HUS-VM.
* Experience on working with System Manager, OnCommand Core Package, OnCommand Unified Manager 6.x and Filer View.
* Hands on experience with NetApp data ontap 8.X, 7.X and SNAP manager products.
* Experience in implementing Snap Mirror, Snap Vault.
* Working Knowledge of VMware V-Sphere.
* Experience in UNIX, LINUX, SOLARIS and WINDOWS servers using SAN and NAS.
* Excellent customer management/resolution, problem solving and debugging skills with good verbal/written communications and presentation skills.
* Problem solving, task prioritization, communication and organization skills.
* Able to work in a deadline environment. Can work efficiently in a team and also on individual tasks.

**Technical Skills**

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| --- | --- |
| Storage Array | NetApp: FAS 6280, 6240, 3270, 3240, 3220, 3140, 2240-2, 2040.EMC VMAX,VNX, ISILON,,Xtreme IO, ClarrionHP XP24000, HP XP12000, HP XP1024. |
| SAN Switches | Cisco MDS 9513, 9509, 9506, 9124, 9148 and Brocade 48000, 5100, 5300,8510 |
| Storage Management Software | NetApp 7-mode,CDOT, FAS filers, OnCommand Core Package 5.2, OnCommand System Manager (3.0 and 2.0), Snap Mirror, Site Recovery Manager, SRA, Flex Clone.Unisphere, Navisphere, EMC Time finder products, ,Brocade CLI, Brocade Fabric Manager, Brocade web tools, Cisco CLI, Cisco Fabric Manager, Cisco Device Manager. |
| Protocols | TCP/IP, LAN, WAN and Fiber Channel |
| Operating Systems | Sun Solaris 8/9/10, IBM AIX 5.1/5.2/5.3, Windows 2k/2k3/2k8/XP, HP-UX 10.x/11.x, UNIX |

**Professional Experience**

**Client: Client: Chase bank, Wilmington DE Jan’16 - Till Date**

**Storage Consultant**

Responsibilities:

* Responsible for 10PB of storage covering seven datacenters in different states in South-west.
* Involved in planning, Design, Implementation of Storage Infrastructure.
* Deployed and configured EMC XTreme IO(ALL Flash array) with multi brick for enterprise VDI Environment.
* Administration of Brocade DCX-8510, M5424 FC switches.
* Managed and administered EMC VMAX 20K, VNX, Isilon, Xtreme-IO, CX-700,CX4-240,CX3-80,CX4-480.
* Managed storage virtualization EMC VPLEX platform with the XtremIO for storage.
* Managed and administered EMC Isilon for PACS application.
* Managed and administered NetApp FAS 6070,3140,3040,2040 and V3220 filers.
* Managed 46 filers and 18 vfilers with Total date over 1TB.
* Extensive experience in administering and managing both 7-mode and CDOT filers.
* Extensive experience with the build of NetApp CDOT filers with Data Ontap 8.2
* Configured Virtual Storage Machines and Logical Interfaces on the filers.
* Configured Snap mirror and Snap Vault relationships among the different filers.
* Performed Data Migrations and Restorations using Snap Mirror and Snap Vault technologies.
* Hands on experience with installation of NetApp Snap Manager products and performed backup and restore using them.
* Implemented the NetApp Site Recovery Manager and setup the DR for the VMware ESX hosts.
* Upgraded the Data ONTAP from 7.3.x to 8.0.x.
* Upgraded ONTAP form 8.0.x to 8.1.2 and SP firmware, Disk and Disk shelf Firmware.
* Performed the Data Migrations from 32 bit to 64 bit aggregates using VSM, QSM, SnapValult and NDMPcopy.
* Implemented Snapmirror, Snapvault and Deduplication on the Flexible volumes.
* Supported NetApp implementations and configurations including Windows/NTFS.
* Involved in changing folder security of AD and NTFS folders.
* Scripting Active Directory changes.
* Creating batch files for setting up new folder structures, applying security etc.
* NAS administration & Delivery focusing on assurance initiatives such as multistore technology.
* Troubleshooting and resolving oplock issues.
* Creation and modification of aggregate/Volume/Q tree.
* Setting up Volume and Q tree Security settings.
* Setup and manage single and multimode VIF’s, ip spaces, etc.
* Troubleshoot connectivity issues for CIFS/NFS connections.
* torage provisioning on VMAX-20K using UNISPHERE and SYMCLI.
* Experience in Managing **VNX-5700**, in creating file system, CIFS shares,NFS Exports and related activities using **Unisphere**.
* Created check points and check point schedules for **SNAPSHOTS** on **VNX**.
* Experience in **VNX** replication technologies like **SAN COPY, Replicator.**
* Experience in migrating data between Legacy Clarrion and VNX.
* Performed LUN Expansions on VMAX-20K for striped and Meta configurations.
* Configured FAST-Policy on VMAX-20K for auto-teiring.
* Responsible for setting up Time finder Mirror copies for ISB’s.
* Responsible for setting up Time finder SNAP sessions for IDR’S.
* Involved In planning phase of VMAX expansion.
* Experience in taking Heat Map reports for performance analysis.
* Experience in backing up data using **Netback up** , **commvault** on to data domain.
* Experience in implementing and trouble shooting data backup solutions for customers using symmantec netbackup 7.6.0.1.
* Daily checking the backup status of the clients and troubleshooting the errors for next backup cycle.
* Performed the Soft Zoning on the Brocade Switches and monitored the flow of traffic through these switches.
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these switches.

**Client: BOK, Tulsa OK Sep’14–Nov’15**

**Storage Engineer**

Responsibilities:

* Develop the SAN configurations and designs.
* Provision power, space and cables for **FAS 3270** and **FAS 3240**.
* Complete site readiness check.
* Managed and Administered NetApp FAS 3270 and FAS 3240 filers.
* Managed and administered EMC **VMAX.**
* Complete new filer installation - confirm network and ASUP successful.
* Develop the Network Attached Storage configurations and designs.
* Upgraded **Data ONTAP** from v**7.2.3** to v**8.0.3**
* Provide validated production filer name(s) and vfiler name(s)
* Provide new volume names, sizing & profile to NetApp.
* Complete **Configuration Workbook** for Netapp.
* Execute **volume, qtree, volume de-dupe** creation scripts per controller.
* Perform **vfiler** creates.
* Run **cifs setup** on each vfiler.
* Create **SnapMirro**r and **Snap Vault** destination aggregate/volume scripts.
* Monitor schedules for successful backups.
* Identify **Ops Manager** process for importing SV schedule and restore process.
* Performed Storage provisioning on VMAX using **Unisphere** and SYMCLI.
* Performed internal replication on VMAX using **Time finder.**
* Perform daily management activities of **Storage Provisioning**, performance monitoring and reporting of both storage and SAN environments.
* Install and configure **EMC powerpath** software on identified hosts.
* Restored single files, directories, LUNs an
* Update Data Domain asset information and documentation, and create Data Domain support accounts.
* Verify hosts have necessary disk space, pre-requisite software installed, network access and communication between hosts works as required, applications and services are stopped or disabled and user accounts are set up as required in the Installation Guide.
* Prepared **Operational and Architectural Runbook**.

 **Client: Toyota, Saline MI Jan’14-Sep’14**

**SAN consultant**

**Roles & Responsibilities**:

* Implementation, administration and maintenance of high end storage arrays like **EMC Clariion** CX 600, 700, CX3-40, 3-80, Symmetrix DMX 2000, DMX- 3, Celerra NS120/480/960 and **NetApp** FAS 6040, 3070, Nearstore R200 in SAN and NAS Environments
* Working on configuration of new switches (**Cisco** MDS 9124, 9513, IBM Blades) including licensing, bringing the switches into fabric, VSAN/ LSAN configuration
* Worked on Snapmirrors, Snapshots, OnTap upgrades, firmware upgrades, and regular storage provisioning (NAS - NFS/CIFS) on **NetApp** Filers
* Worked on updating **OnTap OS** from 7.3 to 8.1 (7-mode)
* Install, configure, test and implement software, components, patches from **EMC**
* Working with **SnapMirror to replicate** data from the primary data center to a DR data center
* Configuration of **vfilers, qtrees, quotas, volumes, aggregates**/ spare disks
* Performing **Snapshot** restore for business critical applications as and when required.
* Develop computer information resources (providing data security and control, strategic computing, and disaster recovery)
* Performed code upgrades (microcode for DMX and OE for Cx) in conjunction with EMC
* Configuration and management of FAST VP Policies on EMC VNX/VNXe and **VMAX** Systems
* Provision storage to different hardware platforms including **Cisco** UCS, **HP** Bladecenters etc
* Responsible for content management of the **Alumni** website and its maintenance
* Creating reports by gathering and analyzing data from the **R-BASE** database using queries
* Generated donor specific data for customization for affiliations and internal procurement
* Maintained presorted remittance for Image processing, research and/or direct distribution to the client;
* Systematically review existing processes with the view to introducing new or improved processes that lead to increased efficiency and accuracy in reporting and data analysis
* Monitor **Netapp** Systems, configure thresholds, capacity management, using Ops Manager(DFM) software
* Worked on Snapmirrors, Snapshots, OnTap upgrades, firmware upgrades, and regular storage provisioning (NAS - NFS/CIFS) on **NetApp** Filers.
* Performed migration of 50 TB of data from CX-3/DMX to **VMAX** using Powerpath Migration Enabler (PPME), Open Replicator (Hot pull/push). Migrated around 20TB of data on 45 Windows/Linux servers using Open Migrator
* Performed data migration of Microsoft Windows, UNIX volumes VMAX, DMX 4/3/, Clariion CX 3-80 using Open Migrator
* Installed, configured and documented SAN copy procedure to migrate data from **Clariion** CX 700 to DMX 2000 for Windows/Solaris/IBM AIX operating systems.
* Performed Migration copy tuning by customizing the Pace and ceiling during Migration. Troubleshoot and resolve various migration issues during and after the migration
* Performed storage migration from **DMX 3000 to DMX 4** storage array using Open Replicator Hot/Cold Pull sessions in a Windows Cluster Environment
* Used Open Replicator software to execute data migration from existing CX-700/DMX to new VMAX storage arrays and Clariion to VMAX arrays
* Decommissioned old CX-700/DMX-2 storage arrays once hosts are migrated to new DMX-4/VMAX arrays.
* Used SPA to investigate and analyze performance issues on **VMAX**.
* Using TimeFinder configured point-in-time **BCV mirror** copies/clones of production data, provisioned them to backup hosts and provided concurrent access local storage replication solutions.
* Design and develop the migration plans for migrating data from various platforms storage arrays and documenting the process. Provide day to day operational and migration support for the customer on **VMAX, CLARiiON** storage arrays.
* Involve in technical discussion and conduct knowledge transfer sessions periodically.
* Setting up a conference or Bridge call with the related technician and resolving the issue with the given SLA
* Created and Configured RAID Groups, Storage Groups, Binding Luns, Naming, Resizing, Unbinding Luns through **Navisphere Manager** and **NaviCLI**.
* Configured the replications using snapmirror on **NetApp** and **Celerra** on EMC Celerra and VNX.
* Administer NAS Environment using DataFabric Operations Manager.
* Configured the replications using snapmirror on NetApp and Celerra on EMC Celerra and VNX.
* Fixing storage administration issues related to **VMAX, DMX, Clariion, Celerra and VNX** configuration in production environment.
* Collected and analyzed performance data using perf advisor from VMWare supported storage systems.
* Performed upgrades on clariion to FLARE 30.
* Configured **EMC ControlCenter** for end to end Administration and Management of Storage environment.
* Monitored, analyzed and fine-tuned the performance issues in **Clariion/Celerra** using **EMC Navisphere** Analyzer and **EMC Unisphere.**
* Project managed the consolidation of data from old **EMC Cellera** and Windows based fileservers onto **NetApp** filers.create, configure, and manage CIFS & NFS shares, quotas, groups, and permissions.
* Configured and created **SnapMirror**, **SnapReserve**, allocating &deallocating shares to UNIX and Windows Clients from the **Netapp** FAS-3070 filers.(NAS Filers)
* Administered Open System **SnapVault** and **SnapRestore** for backup and restore operation in **Netapp** NAS Environment.
* Administer NAS Environment using **DataFabric Operations Manager**.
* Review and identify potential performance issues by anlyzing storage system statistics.

**Client:Boston Scientific, St Paul, MN Sep’12– Dec’13**

**SAN Admin**

**Roles & Responsibilities:**

* Installation, Configuration and Integration of **NetApp filers** with the Windows and UNIX domains.
* Configured Aggregates, Volumes, Qtrees, Snap mirror, Snapshots & Snap Vault.
* Configured volumes for CIFS / NFS. Upgraded **Data ONTAP** v6.1 to v7.2.3 via NFS
* Creating volumes and allocating size to file systems using quotas.
* Successfully allocated Storage for open systems storage environment from **Clariion, Symmetrix** to Windows, Solaris, Linux, IBM-AIX and HP-UX servers.
* Installation and Configuration of Raid groups, storage groups and disk mirroring.
* Storage provisioning on Clariion and **Symmetrix** Systems for Windows, Solaris and AIX hosts.
* Proposed LUN, RAID Group and Storage Group configuration after evaluating company’s present and anticipated growth.
* Actively participate in the planning and implementation of storage and backup solutions.
* Storage Provisioning using zoning, LUN masking, mapping and reclamation, Capacity planning, disk layout planning.
* Replacing the failed disks on **Netapp** Filer
* Worked on Designing and implementing bunker and remote replication using **NetApp** SnapMirror and SnapVault technologies.

**Client: Great Florida Bank, Miami, FL Mar’11-Sep’12**

SAN Administrator

Responsibilities:

* Managed and administrated Hitachi USP 1100, 9980v, 9970 models.
* Managed and administrated Hitachi AMS 1000 & AMS 500.
* Install and configure Brocade San Switches at both Primary & DR site
* Administration and Configuration of Brocade Director switches using Brocade Web Tools.
* Administration and Configuration of Brocade Director switches using Brocade CLI
* Establishing SAN Security using Zoning & Masking.
* Storage Provisioning using Hitachi Storage Navigator
* Installation and configuration of Hitachi Shadow Image
* Configure Shadow Image using Storage Navigator
* Configure Shadow Image using Hitachi HORCM & CCI.
* Installation and configuration of Hitachi True Copy (sync)
* Configuration of the CCI server for the HORCM files
* Creating LUSE & assigning LDEVS through storage navigator
* Following change control procedures for disk assignment, space allocation, LUN expansion.
* Provided Support and administer assistance within the SAN environments. Performed the basic trouble shooting techniques and problem resolution to identify the HBA or driver software problems on Aix, Windows platforms.

**Client: Infotech, Hyderabad, India Jun’09 – Mar’11**

**Storage Administrator**

Responsibilities:

* Managed and administrated Hitachi USP VM, USP 1100, 9980.
* Administration and configuration of Hitachi AMS 1000 & AMS 2500 storage array.
* Installed and configured Cisco and Brocade SAN switches using CLI and Brocade web tools.
* Configured Zoning for SAN security purposes.
* Installed and configured Hitachi Device Manager.
* Configured Hitachi Dynamic Provisioning on Hitachi modular arrays.
* Monitored DP Pool capacity, set alarm and expanded the capacity when needed by adding more LDEVs.
* Performed storage provisioning tasks using Storage Navigator and created LUSE volumes for storage expansion.
* Virtualized HDS AMS and EMC arrays on USP using Universal Volume Manager.
* Configured Hitachi Shadow Image using Storage Navigator for local replication.
* Configured CCI servers for HORCM files and used them to implement Shadow Image.
* Configuration and installation of Hitachi True Copy for remote replication at DR site.
* Involved in the SAN switch migration from McData switch to Brocade SAN switch.
* Used HP XP documentation tools to create reports.

**Education:**

Bachelor of Technology JNTU Hyderabad India