### Ashish

**Professional Summary**

* 8 years of experience in the field of Information Technology (IT), including SAN/NAS and Backup Engineer.
* Experience in IT industry with Netapp FAS, IBM, HitachiEMC storage, which includes Administrating, Maintaining and Troubleshooting of EMC Storage Array VNX 7500/5700, Isilon,XtremIO,Symmetric V-MAX, DMX-4, DMX-3, Clarion series
* Experienced in Administrating EMC Clarion Storage environment using UNISPHERE ANALYZER, UNISPHERE MANAGER, NAVISPHERE ANALYZER, NAVISPHERE MANAGER, VCE Vblock,IBM DSCLI 2.5, Power Path, Snap View, Clone/Snapshot, and Mirror View.
* Well-versed in using GUI management tool like Symmetric Management Console (SMC), EMC Control Center (ECC), UNISPHERE and NAVISPHERE, IBM Total Productivity Center 4.1.
* Experience in Implementing Migration solutions using Open Replicator, SAN Copy and Host level migrations like Mirroring.
* Experience in Implementing Local Replication using Time Open migrator, PPME and LVM Finder /Clone/ Snap and Snap view.
* Excelled in Implementing Remote replications SRDF and Mirror View for Bulk data
* Experience in Administration of storage to Multi-Protocol environment like CIFS and NFS in NAS environment.
* Knowledge and Experience on tape libraries such as IBM System storage IBM 3584, IBM 3582 libraries for daily operations and troubleshooting techniques. IBM System storage IBM 3584, IBM 3582 libraries for daily operations and troubleshooting techniques.
* Data Center migration support for USP, VSP, VMAX and 3PAR attached hosts.
* Storage attached hosts migration from 3PAR, HDS VSP to VMAX and VSP migration support.
* Experience in administration of storage to Multiprotocol Environment like Snapshots, Snap Mirror and Snap Vault, Snap Restore, Netback up,ProtecTIER for backup, migration and disaster recovery
* Experience in storage Provisioning from HP 3PAR, HDS VSP and EMC VMAX.
* Experience on Mediate and Brocade switch zoning changes.
* Fabric Manager and Connectix Manager Support for zoning works, performance support.
* Experience in configuring VSANs on Cisco MDS using Cisco CLI and Device manager.
* Experience with configuration and management of the file storage with VNX 7500/5700.
* Performed administrative tasks like claiming of storage volumes, creation of extent devices, virtual volumes, and storage views in Vplex.
* Installed and configured power path for AIX, Solaris, HP-UX, Linux and Windows Operating Systems to support load balancing and failover features.
* Created dozens of PowerShell, Pearl scripts to automate various features of system administration and configuration
* Experience in installing and configuring SRX Firewalls.
* Experience in troubleshooting various SAN related host Connectivity issues.
* Experience in evaluating and architecture of SAN policies and procedures to help customers improve their existing SAN infrastructure.
* Hands on expertise in troubleshooting day to day SAN/storage and host related issues quickly.
* Provided On Call Support & day to day troubleshooting SAN related issues.
* Performed root cause analysis of major system outages and fixed the bugs in Fiber channels, Switches etc.
* Mentored, assisted, and supported Security and Operations technical teams
* Experience in security infrastructure, troubleshooting problems with firewalls and VPN.
* Good Communication skills and capable of handling multiple projects simultaneously with good mentoring skills.
* Professional team player with communication, interpersonal and presentation skills.
* Self-motivated, willing to learn, adapt to new technologies and third party products.

**Certifications:**

**EMC Proven Professional Information Storage Associate v2 (EMCISA) certification**

**Isilon Certified Storage Professional(ICSP) certification**

**Technical Skills**

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| **Hardware** | **Storage: IBM, Hitachi unified storage 100, VM, VPLEX, XtremIO,VMAX, DMX-3/4, DMX-2, CX 200/400/600, CX300/500/700, CX3-40/CX3-80, CX4 -120, CX4-240, CX4-960, Netapp FAS3020,FAS 3040,FAS2070**  **Connectivity: Brocade Silkworm Directors 48K, 24K, 12K and Departmental switches 4900, 4100 and 3900.Cisco MDS 9500 Series Multilayer Directors (MDS 9513/9509/9506) and DS 9140/9120.**  **NAS: EMC Isilon One 7.0, EMC Emulex LP11000/9000 series and Qlogic HBAs (2340/2342 etc).** |
| **Software** | **EMC Access Logix, SAN manager and Connectix Manager, SRDF/S and SRDF/A, EMC Power Path, EMC Time Finder/BCV/Clone/Snap, EMC Control Center 5.x/6x, SYMCLI6.X/7.X, Websphere, Unisphere, VCE VblockIBM Total Productivity Center 4.1, IBM DSCLI 2.5,NAVICLI and Navisphere manager, Snap View and Mirror view, web Tools, MPXIO, Fabric manager and device manager.** |
| **Operating Systems/Languages** | **Sun Solaris 8,9,10 AIX 5.2/5.3, HP-UX 11.i, Linux and Windows 2000/2003, C,C++,Java, Shell Scripting, Pearl Scripting** |
| **Middleware/Tools** | **VERITAS Volume Manager V4.0/v3.x and AIX/HP/LINUX Logical Volume Manager, VMware ESX, Networker,Data Domain,AVAMAR,VERITASNetBackup.** |

**Professional Experience:**

**NUVASIVE Inc, San Diego, CA June 2014-March2016**

**Storage Engineer/Administrator**

**Environment:** EMC V-MAX, XtremIO VNX 5500, VG8 gateway, IBM DS 4800,8100,8300,Symmetrix Management Console 7.3, IBM Total Productivity Center 4.1,Solutions Enabler, EMC Control Center, EMC Isilon One 7.0,Celerra, Aptare Performance Manager, Unisphere, SRDF, Timefinder, PowerPath, VMotion,Vblock,Operations manager, IBM Tivoli storage manager,Commvault, Cisco 9513 and 9222i, Windows, Unix, Sun Solaris, VMware ESX and OS/390, IT2B ticketing service, Service Now

**Responsibilities:**

* Configured and implemented the new VMAX in the environment and migrated the data from DMX to VMAX and maintaining IBM arrays.
* Installed, configured and implemented XtremIO and provided support during initial installation of the hardware
* Created Device Group Pairs added R1-R2 and established relationships with SRDF.
* Configured and managed the SRDF sessions for Disaster Recovery and Migration purposes on a VMAX and IBM.
* Expertise with host based migration software Open Migrator and PPME on various operating systems including AIX, Solaris, Linux, HP-Unix and Windows for data migration.
* CommVault storage management tools on EMC products to include CommServe Administration,
* Troubleshoot the SAN connectivity on different Operating Systems like Windows, VMware ESX, Linux and Solaris.
* TSM Policy domain, policy set management class and copy groups and configured Fiber Channel Switches such as Brocade and Mediate in the environment
* DRM using Tivoli Storage Manager and Tape Library (Storagetek, IBM) / Tape.
* Combined VCE Vblock with extreme applications with EMC Isilon and XtremIO.
* Storage provisioning on VDI’s using Vblock on Isilon and XtremIO.
* Recommend best practices for EMC Vmax and Cisco MDS Switches.
* Analyzed the environment and recommend the best practices.
* Administration of VNX 5500, NS480 Celerra including creation of file systems, exporting and mounting CIFS/NFS shares and configuring network interfaces.
* Involved in creating virtual data mover and data mover failovers and testing data mover failover.
* Responsible to configure Thick/ Thin Provisioning and FAST VP on VNX Arrays.
* Involved in creation and maintenance of checkpoints and replications for data backup and recovery.
* Implemented file system quotas on both VNX and Celerra arrays.
* Involved in the migration of NS480 to VNX 5500 array using Celerra V2 replicator; data mover pre-migration checks, creating Virtual data mover and data mover failovers and cleanup of the Celerra box to be decommissioned.
* Involved in creating, configuring and managing aggregates, volumes, qtree, quotas, Snapshots, CIFS Shares and NFS exports on the filers, provisioning of storage allocations, Space & quota management, capacity management, data migrations, performance analysis and management
* Provisioned storage based on standardized procedure and participated in the execution of the business continuance.
* Created Storage trending reports on storage arrays and presenting it to customer.
* Work with application owner to develop business continuity and Disaster Recovery procedures leveraging VMware.
* Assist in the development of the Disaster Recovery run-book scripts for recovery in the event of an outage.

**Citi Bank, Irving, TX Jan 2013-Apr 2014**

**Storage Engineer/Administrator**

**Environment:** Hitachi unified storage 100 & G series,Clarion CX-4, VMAX 40k/20k/10k, Netapp FAS 3020 FAS 3040 and ONTAP, VPLEX VS2,Celerra,VNX,EMC Isilon, Recover Point, Snap mirror, Snap Restore, Hitachi Universal replicator (HUS), NAVISPHERE, UNISPHERE, Naively, Cisco MDS switches, Shell scripting

**Responsibilities:**

* Day to day provisioning of storage (Storage device selection/creation, Zoning, LUN Masking). Managed and deployed LUNS from EMC storage frames to multiple servers using the SYMCLI, Navisphere Manager. Provided on Call Support & day-to-day troubleshooting SAN related issues.
* Implemented thin provisioning from VMAX, Clarion, HDS to UNIX (AIX, Solaris and Linux) and Windows2003/2008 (clusters) servers, and VMware ESX Servers.
* Designed and implemented SAN disaster recovery solutions for storage using SRDF.
* Working in administration of SAN and NAS infrastructure using Navisphere Manager, SYM CLI, SMC, EMC Control Center, Unisphere, Filer View, Operations manager, Cisco Fabric Manager and Device Manager.
* Created Array/Host reports using Aptare capacity planning and performance tool.
* Configured BCV’s and Clones using SRDF and Time finder tool in VMAX for production and testing environments.
* Performed replication of HDS arrays to the DR site using Hitachi Universal replicator (HUS).
* Eliminated tape backups of NAS data by configuring SyncIQ to replicate primary Isilon servers to secondary.
* Migrated and Replicated Data from ONTAP,FAS,HDS to Vmax using VPlex
* Worked with VMware Administrator to upgrade VMware infrastructure to VSphere.
* Created data devs, thin pools, Tdevs, Meta volumes using SMC and SYMCLI on VNX and Calirion.
* Configuration and management of VNX arrays using Unisphere Manager. Assigned storage to Unix and Windows servers and configuration of NFS exports and CIFS shares using Unisphere manager
* Implemented SRDF/A on V-Max/DMX for disaster recovery setup between local and remote datacenters
* Implemented file system quotas on both VNX.
* Daily administration and maintenance on Celerra integrated and gateway models and VNX (file & block) level arrays.
* Storage provisioning on both VNX and Celerra by creating file systems, quotas; NFS exports; Configured CIFS server and created CIFS shares for Windows and Linux servers.
* Involved in the migration of NS40 to NS700 and NS80 to VNX Series: data mover pre-migration checks, creating Virtual data mover and data mover failovers
* Configured anonymous File Sharing on Isilon to connect clients to the cluster via SMB/NFS for Windows and UNIX operating environment using Smart Connect.
* Configured Quotas for Isilon at the directory and sub-directory level using Smart Quotas.
* Created scheduled snapshots using SnapshotIQ on Isilon based on DBA requests for test and development purpose.
* Configured SyncIQ file transfer policy event from one cluster to another cluster.
* Configured the Isilon Cluster to the Active Directory domain
* Created scripts for daily tasks device creation, mapping, masking and migration tasks on HDS,EMC,Netapp
* Cabled up the Fiber Channel cables from host to switches, switches to storage in the environment.
* Worked on the installation, configuration and Zoning on Cisco 9513 and 9222i switches
* Migrated UNIX and windows servers using Open replicator and SRDF (array based) to migrate the data from VMAX 20K to VMAX 40K storage systems.
* Implemented DR solutions between VMAX 20K arrays using SRDF and between VNX arrays using Recover Point (using CDP and CRR technologies).
* Provided Documentation and Methodology for all processes within Enterprise storage department.

**Nielsen Media ResearchInc. Manhattan NY Oct 2011 - Dec2012**

**Storage Aministrator**

**Environment:**EMC VMAX, VNX, Celerra NS 40,80,DMX-3/4 and IBM XIV Gen3,Hp 3par, Cisco MDS 9509 and 9513 Directors, Brocade 48k and 5100 and 5300. AIX (5.2/5.3), HP-UX (11.11/11.23), Win 2K/2K3, Solaris 8/9/10, SYMCLI6.x/7.x, SMC 7.0, ECC 6.0, NAVICLI, NAVISPHERE Manager, Time Finder/BCV, Clones, SRDF/S, Open Migratory and Open replicator, Neap Filer View / CLI.

**Responsibilities:**

* **Allocated and Provisioned storage from several VMAX,VNX, DMX-3, DMX-4, CX3-80, CX4-480, Hitachi , 3par to Windows, Solaris, HP-UNIX and AIX servers.**
* **Experienced with Virtual Provisioning technology to allocate storage from for VMAX and DMX-4 Arrays using Seemly, SMC 7.0.**
* **Implemented Zoning on Brocade 48k, DCX, 5100, 5300, Cisco MDS 9513 switches using ECC.**
* Hands on experience in EMC Clarion Administration by using Navisphere Manager and Naively.
* Migrated data from old storage frames like DMX-2000s to new array DMX-3 using LVM/open Migratory and open Replicator depending on the customer requirement.
* Migrated data from IBM XIV gen3 to VNX storage using Open replicator and Open migrator.
* Involved in the migration of NS40 to NS700 and NS80 to VNX Series: data mover pre-migration checks, creating Virtual data mover and data mover failovers; cleanup of the Celerra box to be decommissioned.
* Actively involved in performing day to day operational tasks like storage provisioning and monitoring the health of SAN.
* Involved in migrating SAN environment from Brocade 24k Director to Cisco MDS 9509 and MDS 9513 Directors (interoperability mode).
* Experience in installation, configuration and maintenance of ECC 6.0 infrastructure and expert in installing and upgrading of agents for different entities (SAN,NAS, Masking, Database and File systems etc).
* Hands on experience in creating Zones and zone sets between different fabrics (to make the SAN migration smooth).
* Identify underutilized resources (FA ports and host based assets) using Storage scope reporting and proactively resolved the capacity allocation issues.
* Performed daily activities and checks on the Netapp FAS3020, FAS3040 and FAS3070 Filers.
* Resolved issues if any in the filers.
* Created Volumes, Loons from console
* Administered Loons and snapshots using Snap drive.
* Restored loons in case of any corruption using lung clone.
* Configured snap mirror,Used snap sure to create point-in-time image of production file systems and also provide online access to historical data from clients. Also used it as a source for backups.
* Involved in migration of data from Celerra to VNX array using Celerra V2 replicator.
* Data movement from filer to filer using Snap Mirror (planning)
* Used DFM to collect Reports.

**Ally Financial, Detroit, MI Nov2009-Sep2011**

**Storage Engineer**

**Environment:**EMC Clarion/Symmetric/Celerra, IBM DS Series, Navisphere, Naively, Networker, Snap View, Mirror View, Power path, BCV, SRDF, Zoning, Time Finder, IBM TSM, Mediate switches/directors, Brocade Directors, EMC control center, Emulex, Logic HBA, Microsoft Windows, Linux, AIX servers.

**Responsibilities**

* Worked with EMC and Brocade Engineers for break fixes, firmware and microcode upgrades.
* Worked on Performance Manager, Storage Scope to generate reports of CX Arrays and created Snaps on Exchange Server for DBA as needed.
* Responsible for network backup integrity and recovery coordination along with Disaster Recovery planning.
* Managed, Documented, scheduled backup on IBM arrays using Tivoli storage manager
* Managed SAN using SAN Manager and taking care of Thin Provisioning.
* Trouble-shooting SAN problems and taking care of Fabric Manager.
* Played an active role in carrying out various migrations involving Clarion/DMX.
* Involved in setup of Neap filer in the environment.
* Migrated data from Emc Clarion to Neap storage filers using AIX lama and VERITAS volume manager on UNIX side.
* Created change requests for the migration and create documentation supporting changes in Celerra and Clarion
* Configured and maintained ECC Designed and implemented Storage solutions using EMC products to achieve optimum performance.
* Data growth analysis and storage resource forecasting also comes under my responsibilities.

**Sirisha Solutions, India Apr 2008 – Oct 2009**

**Systems Engineer**

**Environment**: EMC DMX-3, EMC Clarion CX 700/500,Celerra and VERITAS Netback up 6.5, Brocade and Mediate switches, Connectix Manager, Seemly, EMC Control Centre (ECC), Time Finder, SRDF, SAN Copy, Snap View, Mirror View and Navisphere Manager, Windows 2k/2k3, AIX.

**Responsibilities:**

* Managing storage including storage provisioning, performance tuning, adding volumes, assigning ports, data movement, maintenance of severs & troubleshooting problems in environment.
* Implemented, administered and maintained EMC Clarion CX 700/500 and celerra systems.
* Worked with EMC software tools like Seemly, Control Centre, Time Finder, SRDF, Power Path and Navisphere Manager.
* Create RAID Groups, Bind LUNs, and Create Storage Groups using Navisphere Manager.
* Took the snapshots using the Snap View functionality of EMC Clarion,Celerra
* Played an active role in carrying out various data migrations involving EMC Clarion,Celerra and DMX arrays using Canopy and SRDF.
* Configuration and administration of EMC Power Path software for redundant path failover and recovery.
* Planning and configuration of automated backups and restores using VERITAS Netback up 6.5.
* Installed Time Finder and configured EMC DMX-3 disk groups for BCV operations.
* Configured and administered Fiber Channel Switches (Brocade and Mediate) and performed zoning using Connectix Manager