**AFFKHAN**

**SAN/STORAGE/NETAPP ADMINSTRAOTOR**

[Khanasif114@gmail.com](mailto:Khanasif114@gmail.com) mobile:7246483548

**SUMMARY:**

* More than 7+ years of progressive Administrative and implementation experience in large-scale and midrange storage for **EMC Storage Area Networks (SAN)** and **Network Attached Storage (NAS)**Extensive experience with business continuity, disaster recovery.
* Working experience on the installation, configuration and **provisioning** of **VNX, VMAX**, **VBLOCK**, **Centera,DMX4, CX4-960, Vplex,RecoverPoint, XtremIOand NS series, HDS and IBM.**
* Expertise with the following monitoring tools and configuration tools: **Unisphere Manager, SMC, ECC, SYMCLI, Navisphere Manager, NaviCLI/NaviSecCLI**.
* Performance monitoring with Unisphere. Experienced in administrating **EMC CLARiiON Storage environment using Navisphere Analyzer, Navisphere Manager, PowerPath ME, EMS and SANCopy.**
* Experienced in administrating **EMC Symmetrix Storage** environment using, **EMCTimeFinder Mirror, SRDF/S**, Operational knowledge on **SRDF/A**, **Open replicator, Solution Enabler (SYMCLI) &SANCopy.**
* Configuration of Standard devices (STD) for normal production operations and BCV for Timefinder in **VMAX**
* Performing provisioning and data migration between VMAX to VMAX arrays and performing Lun masking and allocations in **VMAX**
* Strong experience in Backup management and disaster recovery administration using EMC Time Finder family (**snapshot ,Clone and BCV’s**), Remote replication techniques (SRDF ,Mirror View and SANCopy)
* Combining scale-out clustering and advanced data caching from **EMC VPLEX**and performing Dynamic synchronous and asynchronous replication by using **EMC VPLEX**
* Designing and configuring **IBM SVC** to increase management efficiency
* Deploying and managing of storage resources and administering to deploy storage by using **IBM SVC**
* Configuring and maintenance of **HP EVA 4400 and 3PAR storage arrays**
* Administration and maintenance of **3PAR storage array** and allocation, deallocation of luns in 3PAR
* Avamarbackup and recovery software with integrated source/global   
  data deduplication and expertise in implementation, administration and Avamar Backup tool.
* Experinece inAvamar grid configuration in large scale data center deployments.
* Hands on experience working on maintenance and configuration of Virtual machine storage
* Configuring storage luns on VMs
* Multisite replication experience Avamar to Avamar
* Planning and configuration of automated backups and restores using **VERITAS Netbackup 6.5.**
* Successful in troubleshooting the complex technical issues related to storage while analyzing the root cause of storage issues and resolve to the management contentment
* Hands on experience in Migration of data between **EMC to EMC** arrays and **EMC** to Third party Arrays Using SRDF ,**SAN COPY ,** Open replicator and **RecoverPoint**
* Experience with configuring and managing **Isilon environment**
* Configured and managed various NetApp FAS 3270 and 6280 systems with Data 7-mode.
* Administration of Clustered Data Ontap (cDOT)
* Configuration of NFS and FC storage on cDOT for Vmware environment
* Hands on experience installing troubleshooting and configuring Zoning using WebTools for Brocade switches and Fabric/Device Manager for MDS switches.
* Worked on switches such as **Cisco MDS 9509 / 9506 /9148, McData M4700 ,Brocade 12000/4800/4100**
* Experience in Virtual infrastructure resources specializing in **VMware ESX server3.5, 4.0 and 4.1**; VMware **vCenter server4.0, 4.1 and ESXi 5.0**
* Extensive Experience is Networking, System Administration of Windows and Unix Operating Systems.
* Hands on experience with **HP Proliant Servers and Dell Power Edge** rack mount servers.
* Strong understanding of VMware Networking concepts like creation of vSwitches, different types of port groups, and security policy setting by NIC Teaming, load balancing, beacon traffic, notification to switches for connectivity problems.
* Experienced in Installation and configuration of **SUN Solaris 8, 9 and 10** on Sun Servers Using Jumpstart automatic installation.
* Hands on experience on EMC Avamar and commvault
* Good understanding on storage types including **iSCSI, NAS and SAN, VM creation** capable file systems including **VMFS and NFS.**
* Extensive experience in working with the **vMotion** technology and **Storage vMotion** technology.
* Experience in **Windows Server 2003 and 2008** server architecture and administration.
* In-depth understanding of Operating Systems, Servers, and enterprise applications, as well as their compatibility with storage architecture, businessgoals and technology strategies.
* Excellent leadership qualities, good communication skills and interpersonal skill

**TECHNICAL SKILLS:**

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| **STORAGE ARRAYS:** | **VNX5700, VNX7500, VBLOCK-320/720, CX3-80, CX4-960, Symmetrix VMAX 10K,20K ,DMX-3, DMX-4, Netapp FAS3020, FAS3070, FAS3240, FAS6240 ,HP Storage (super Domes), HDS (Hitachi data),**  **HP 3PAR, EVA, XP arrays.** |
| **SAN SWITCHES:** | **Cisco MDS9513,9509, 9140 & 9120 and Brocade 48k/12k/5100/4900/McData 4500/McData 4700/McData 6064/McData 6140** |
| **SOFTWARE:** | **EMC Control Center (ECC), EMC Navisphere Manager, EMC Unisphere, NaviCLI, SYMCLI, Symmetrix Management Console (SMC), SRDF, SRDF/A, TimeFinder/Clone, MirrorView,Avamar , SanCopy, Open Replicator,COmmvault, VEEAM8.0, Open Migrator, PPME ,RecoverPoint 4.0, NetApp Filerview, Hitachi data device Manger,NetAppFAS,NetApp Data OnTap 7.x, 8.1, Netapp operations manager, NetApp SnapManager for exchange/oracle ,Cisco Fabric manger, Python, SQL.** |
| **WINDOWS ADMINISTRATION:** | **Configuration of DHCP and DNS, installation and configuration of VPN client, Windows Server 2003/2008 - installation and configuration, installation and configuration of Active Directory and Internet Information Service (IIS 5.0/6.0), creating users and groups, setting user access controls, domains creation and setup** |
| **SERVER HARDWARE:** | **HP Proliant DL380 G5/G6, HP Proliant DL385 G6/G7, HP Proliant DL580 G5, Dell PowerEdge 2850, 2950,6850,R710,R900, HP BL 460c G5/G6 blade servers, C7000 HP Chassis ,Cisco UCS chassis.** |
| **PLATFORMS:** | **Windows, Linux (RHEL / OEL), AIX, VMware, HPUX, Solaris.** |

**EDUCATION:**

* Bachelor of Technology from Jawaharlal Nehru Technological University (2008), India

**PROFESSIONAL EXPERIENCE:**

**FIDELITY INVESTMENTS, DURHAM, NC SEP 2015 – PRESENT**

**SR. STORAGE ENGINEER**

**RESPONSIBILITIES:**

* **SAN / NAS Administration** in a storage environment consisting of **EMCClariion, VNX, VBLOCK ,DMX, VMax, Netapp FAS Series, Cisco and Brocade** Switches.
* Assigned storage **from VBLOCK 320 to Windows and VMware environments.**
* Migrated virtual hosts by using vMotion to new data store created on VNX pool storage.
* **Performing LUN expansions and LUN migrations in VMAX and VNX, Implementing and Administrating THIN Provisioning in VNX & VMAX.**
* Combining scale-out clustering and advanced data caching from **EMC VPLEX**and performing Dynamic synchronous and asynchronous replication by using **EMC VPLEX**
* **Configuredstorage Pools for File and created file systems, Tree Quotas and Group Quotas**
* Implementing and Maintaining **FAST Cache** and **FAST VP in VNX**, Configuring and managing Network for Block in **VNX.**
* Configuring and maintenance of **HP EVA 4400 and 3PAR storage arrays**
* Administration and maintenance of **3PAR storage array** and allocation, deallocation of luns in 3PAR
* Designing and configuring **IBM SVC** to increase management efficiency
* Deploying and managing of storage resources and administering to deploy storage by using **IBM SVC**
* Working on backup administration by using **EMC Avamar and commvault**
* **MIGRATION** of data using **LUN** migrator within Homogenous pools and **SAN copy**.
* Provided best practices for storage planning and provisioning for **SAP and Siebel environments.**
* Planning and implementation of the **VPLEX cluster.**
* Provisioning and administration on **VPLEX**.
* Worked on switches such as **Cisco MDS 9509 / 9506 /9148, McData M4700 ,Brocade 12000/4800/4100**
* Hands on experience working on maintenance and configuration of Virtual machine storage
* Configuring storage luns on VMs
* Familiarity and hands on working experience with **OPENVMS**
* managing copy of data in memory, inside an all Flash array by using **XtremIO**
* Avamarbackup and recovery software with integrated source/global   
  data deduplication and expertise in implementation, administration and Avamar Backup tool.
* Experinece inAvamar grid configuration in large scale data center deployments.
* Having strong experience working with EMC and Environmental testing by **ISO11452 and CISPR25**
* Hands on working experience with EMCAutomotive EMC testing and SPICE circuits/models
* Multisite replication experience Avamar to Avamar
* Experience in provisioning **Lun**s, adding capacity to the existing Luns, using GUI and Vplex cli.
* Involved with **EMC CE** to design and installed RPA splitters on **VBLOCK-320** and implemented RecoverPoint Clusters.
* Configured and managed various NetApp FAS 3270 and 6280 systems with Data 7-mode.
* Administration of Clustered Data Ontap (cDOT)
* Configuration of NFS and FC storage on cDOT for Vmware environment.
* Used RecoverPoint for disaster recovery.
* Configuring and maintenance of **HP EVA 4400 and 3PAR storage arrays**
* Administration and maintenance of **3PAR storage array** and allocation, deallocation of luns in 3PAR
* Hands on experience on Commvault’s data protection and information management solutions
* Performed a CRR copy sessions using recoverpoint.
* Migrated **63TB of data using Data Mobility on Vplex. (VNX to VNX behind Vplex)**
* **Upgraded PowerPath version from 5.1 to 5.5 sp1 to bring host to latest version of PowerPath supported by Powerpath by VPLEX.**
* Migrated and virtualized data behind **VPLEX** using mobility central with no host impact and no serverDowntime.
* Configuring and maintenance of **HP EVA 4400 storage array and XP arrays**
* Performing lunallocation,deallocation and provisioning on **HP EVA (4400)storage arrays**
* Familiar working with VEEAM8.0 Backup and replication VM backup , restore and replication
* Planning and configuration of automated backups and restores using **VERITAS Netbackup 6.5.**
* Perform administration and management on **VMAX 20K with Enginuity 5876**.
* Creation of Cascading Storage groups, Cascading Initiator Groups, Port Groups and Masking Views on Unisphere.
* Implemented **FAST VP and created best FAST policies for Storage Groups**.
* Monitor performance of the **VMAX** by using performance manager.
* Configuration of Standard devices (STD) for normal production operations and BCV for Timefinder in **VMAX**
* Performing provisioning and data migration between VMAX to VMAX arrays and performing Lun masking and allocations in **VMAX**
* Performed storage decommissioning on **VMAX,**delete zones, unmap devices and dissolve metas.
* **Performed zoning/IVR on VMAX and hosts in CISCO 9513/9501 environment.**
* **Configuration of qtrees, quotas, volumes, aggregates/ spare disks (NetApp FAS 3250, 3070)**
* Performing Snapshot restore for business critical applications as and when required
* Support & Configure multi-protocols including **NFS, CIFS for UNIX** and **Windows Hosts**
* Worked on server remediations on windows 2008, 2003 and 2000 servers.
* Developing reports and maintaining of storage configuration and storage provisioning
* Created performance trend reports and capacity planning reports by using **SRM (storage resource Manager)** and **VNX** monitoring and reporting tool and NetApp OnCommand Management Software.

**ENVIRONMENT*:* VNX7500 (unified), VBLOCK 320 & 720, Clariion, Vplex Local, RecoverPoint 4.0, Vmax 20K, VERITAS NetBackup 6.5,EMC Data Domain, Netapp Metro cluster, NetApp OnCommand Management SoftwareIBM V7000,IBM DS8000, SVC, XtremIO/O, and Dell Tape Library.**

**TRANS UNION CHICAGO IL JAN’ 2014 – AUG 2015**

**SAN/STORAGE ADMINISTRATOR**

**RESPONSIBILITIES:**

* Administration and maintenance of enterprise storage arrays like **EMC CLARiiONCX4-**120/240/480/960, **Symmetrix VMAX, and DMX3/4.**
* Created and configured **RAID** groups, storage groups, binding LUN’s, Naming, Resizing, and Unbinding LUN’s through Navisphere manager and **NaviCLI.**
* Performed mapping and masking on Symmetrix arrays DMX-3 using **SYMCLI.**
* Hands on experience on Symmetrix virtual provisioning using Solutions enabler.
* Extensive hands on experience with **Clarions CX4-120/240/480/960** using Unisphere.
* Install and **Manage EMC**Symmetix family DMX 3, 4, VMAX, VNX7500, **CLARiiONCX 4-120, CX3-80,** in heterogeneous environments, which include the following operating systems: Windows 2000/2003/MSCS, Enterprise Linux versions 3 & 4 and Sun Solaris 9/10.
* Expertise in **SRDF and Time Finder**
* Local replications using TF/snapshots and TF/clones.
* Familiar working with VEEAM8.0 Backup and replication VM backup , restore and replication
* Strong Understanding of storage replication and virtualization technologies
* Managing large heterogeneous **SAN** fabric comprising Enterprise class Cisco 9513 and Brocade 48K switches managed using Connectrix Manager 10.4.5 and CLI.
* Day to day based Storage Provisioning to Windows and UNIX hosts as required
* Regular environment check and maintenance with current releases of firmware and operating systems
* Working with HP EVA and MSA storage arrays
* Working **on ISL and ICL’s** in a Brocade Switch.
* Capacity planning and calculating storage using Storage Scope.
* Heavy on Multipath software like Power Path and **MPIO.**
* Day to day work involved troubleshooting, maintaining groups and user accounts and also daily backups by using **VERITAS Netbackup on Windows Servers & Perform restores.**
* Proven ability to resolve technical problems, analyze performance and make recommendations to improve current performance.
* Hands on experience on Commvault’s data protection and information management solutions
* Experience in providing operational and disaster recovery support for all storage platforms; document environments, edit/create best practices in regards to storage; provide after hours support as needed.
* Provide assistance and guidance to System Administrator's in regards to attaching hosts to the SAN
* Experience with FAST on **Symmetrix VMAX, CLARiiON and VNX.**

**ENVIRONMENT**:**EMC VMAX**, **Symmetrix/DMX, EMC Clarion CX4-120/240/480/960, EMC Control Center v6.1,Avamar, EMC Navisphere Manager v6.x,Unisphere, EMC Time finder/Clone,TimeFinder/Snapshot,Commvault, SYMCLI, VERITAS Netbackup, EMC Power Path v6.0, Both SRDF/S and SRDF/A, SnapView, disaster recovery planning theory and best practices and testing.**

**BLACK ROCK SYSTEMS, INDIA APRIL’ 2011 – DEC’ 2013**

**SAN/STORAGE ADMINISTRATOR**

**RESPONSIBILITIES:**

* Administration and Management of **VNX 7500,  CLARiiON CX3-80, CX4-480, VMAX 20-K**
* Allocation of storage from **VNX 7500 model** array using Unisphere Manager to **Win 08, Linux, Vmware, Exchange and AIX.**
* Disaster recovery implementation and planning for Tier-1 storage arrays using **SRDF**
* Implementing and Administrating THIN Provisioning in **VNX & VMAX and working and administrating on centera**
* Implementing and Maintaining **FAST Cache** and **FAST VP in VNX**, Configuring and managing Network for Block in VNX.
* Managing and monitoring SAN using Unisphere, **SMC, SYMCLI** and **DATA ONTAP**
* **MIGRATION** of data using open replicator and **SAN** copy.
* Configured and Managed **EMC VMAX** and **VPLEX.**
* Assisted **EMC** in installation of 2 engines **VPLEX in the datacenter**.
* Familiarity and hands on working experience with **OPENVMS**
* Hands on experience on configuring and managing **CISCO 9500** series switches and created zone and **VSAN** using fabric manager
* Created **CIFS** and **NFS** share in Data domain
* Monitored Data domain storage and reported it to the management.
* Installed NetBackup agents on the Unix and windows servers and discovered them in to the system
* Implemented **SmartLock, SmartConnect, Smartpools**and**Smartfail** operations on Isilon clusters.
* Creation and implementation of **NFS Exports**and**SMB Shares**.
* Management of Isilon cluster using **Web Administration Interface**and**CLI.**
* Configured Data Domain for De Duplication
* Worked with **EMC** to configure the filesystems on the DataDomain
* Created and Managed **SNAP** Mirror for Disaster recovery.
* Involved in installation and configuration of **NAS** device **EMC Celerra NS501G, NS700**
* Created and administered Celerra volumes, slices
* Configured Celerra Replicator on Celerra systems for Local and Remote Replication after creating checkpoints
* Troubleshoot **NFS, CIFS** issues on the **EMC**Celerra and fine-tuned the file server for optimal performance
* Created **aggregates/volumes and qtrees**in a **NetApp environment.**
* Allocated and configured storage using different protocols such as **NFS/CIFS/SAN** from **FAS3070/FAS3020** to different OS platforms.
* Work with **Netapp customer support** to troubleshoot any issues and also open tickets when required.
* Working knowledge on migration of data between **EMC** and Netapp using Recoverpoint by array based splitters
* Implementing **NFS and CIFS** shares in **VNX,** Creating and Managing File Systems, shares and quota
* Increase and decrease the quota and volume sizes as per the requirement
* Upgraded VMware **ESX 3.5 servers to ESX 4.0** servers and to **ESX 4.1** and also Virtual centers from **vCenter 2.5** to **vCenter 5.0**.
* Prepared the standard Virtual machine storage migration procedural document for different versions of Virtual Centers.
* Installed and upgraded **HBA** drivers and firmware on all open system environments.
* Troubleshooting the issues that occur in the SAN environment and providing documentation for operational management.

**ENVIRONMENT***:* **VNX 7500, CX4-960, VPLEX ,Symmetrix DMX4, VMAX 20K,DataDomain 880, Cisco 9513, SMC, ECC, SYMCLI, SRDF, Open replicator, SAN copy, Recoverpoint, ESX server 4.1,vCenter 5.0,NetApp 3000 and 6000 series filers, HP Proliant DL580 G5, Windows 2008 R2, Solaris, AIX**

**PLINTRON TECHNOLOGIES, INDIA OCT’ 2008– MAR’ 2011**

**SAN/STORAGE ADMINISTRATOR**

**RESPONSIBILITIES*:***

* Administration of **VNX, CLARiiON CX3-80, CX4-480, HDS,**Symmetrix VMAX, DMX3.
* Storage allocation on **CLARiiON** by using Navisphere Manager/Analyzer and Symmetrix by Symmetrix mgmt. console **(SMC)/ SYMCLI.**
* Allocated storage from **VNX 5700/7500** model arrays using Unisphere Manager to Win 08, Linux and **AIX.**
* Implementing and Maintaining FAST Cache and FAST VP in **VNX,** Configuring and managing Network for Block and File in **VNX**
* Installation of **VNX with 3 POOL Storage** along with Fast cache.
* Performing **LUN** expansions and **LUN** migrations in **VMAX, DMX**, **Clariion& VNX**, Implementing and Administrating THIN Provisioning in **VNX & VMAX**
* Implementing and Maintaining **FAST Cache** and **FAST VP** in VNX, Configuring and managing Network for Block and File in **VNX**
* Configuring mixed qtrees and authentication for both Unix and windows environment
* Allocated storage from different arrays such as **NetApp and EMC CLARiiON** Arrays.
* Migrated data from **DMX-4 to VMAX** using array based migration technologies like PPME, Open Replicator.
* Migrated the NAS filesystems from stand-alone NAS server to netapp arrays.
* Configured snapshots schedule on the Netapp volumes in the environment.
* Created Aggregates, Volumes (**Traditional, FlexVol and FlexClone), Qtrees and Quotas in NetApp FAS 3040 and FAS 3020 using Filerview.**
* Created and exported **NFS and CIFS** shares **from EMC Celerra using Celerra manager**.
* Troubleshooting **SAN** Switches for dial home events and symptom codes using consoles like Fabric manager, Web Tools.
* Zoning, merging of new switches to existing fabric on brocade switches.
* Proactively analyzing **SAN** environment using Brocade **SAN Health reports**.
* Worked closely with **SAN admin** team in **LUN creation**, **LUN masking**, zoning and **LUN addressing** by supporting multiple storage connectivity options such as **FC-SAN, iSCSI, NFS (NAS) and internal storage.**
* Developed and documented the installation and allocation procedures.
* Installed **VMware vSphere ESXi 4/4.1 and ESX server 4.1/4/3.5** in a total of 200 **ESX servers, 2000+ servers, and 2 virtual centers.**
* Designed and successfully implemented **VMware ESX servers** for server consolidation.
* Build/Design **Windows 2008/2003 Servers** on standalone and blade servers based on application design and deployed stack on these servers using **CA Unicenter** software deployment.
* Upgraded **VMwareESX 3.5 servers to ESX 4.0** servers and to **ESX 4.1**.

**ENVIRONMENT*:* VNX, CLARiiON CX700, CX3-800, CX4, Symmetrix DMX3, V-MAX, Cisco 9513, Brocade 3850, 4100, SAN Copy, Snapview , Time Finder ,Navisphere 6X ,SRDF , Brocade web Tools ,Windows 2008/2003, VMware ESX, AIX .**