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Profile:

* 20 years of experience enterprise storage arrays as Storage Administration, Design, Implementation, Consultant, Migration, transition, stabilization & Support.
* 4 years of exp in Cloud operations, migrations, and Architecture.
* Experience in Administration majority of storage products
* Dell EMC –PowerMax, VMAX3, VNX, SRDF& XteremeIO
* Isilon/Unity – X, NL, S series of nodes, OnefS 7.x and 8.x
* NetApp – FAS Series, All Flash Arrays and Cluster OnTap(C-Mode)
* IBM – XIV, V5000/V7000, SVC, DS8000, FS7000
* Cisco MDS fabric switches
* Python Scripting – Automation of daily tasks
* Pure Storage Arrays
* AWS cloud operations.
* Azure Storage, ANF files, Azure storage operations.

Core Competencies

* Proven Experiences in Design, Implementation and Maintenance of SAN and NAS storage arrays Including DELL EMC Symmetrix VMAX40K, VMAX 250F/950F, POWERMAX, Isilon, IBM XIV, V840, v9000, TSM, SVC, A9000, NETAPP ONTAP AFF8080 CMOD9.7, PURE X90, Data Domains, HP 3PAR, CISCO MDS SAN switches.
* Developed microservice APIs to build self-service portal to perform Day to Day storage operational activities as Storage provisioning, Zoning, Capacity, alerts dashboard, data protection and disaster recovery status reporting.
* Monitoring and forecasting the storage array capacity and resources utilizations.
* Designed and Implemented the Data Migration / Cisco MDS Switches migration projects to decommission the legacy SAN environment Hardwares.
* Hands on experiences with Unix operating systems (Red hat, SUSE, and Solaris)

/windows/VMware(vSphere/venters) administrations

* Strong experiences in Technical Writing for Engineering standards, process, and procedures – SOPs for Storage Operational activities and vendor/stake holders coordinations.
* Experienced in Project methodologies ITIL, Scrum, agile and Kanban and Tools as JIRA, Confluence, ServiceNow and ServiceDesk, CMDB

**CERTIFICATIONS:**

* Vmax All Flash and Vmax3 Solution system admin
* Python – Certificate from 3rd party
* ISILON , ISM – V2 EMC
* Machine Learning – CourseEra Stanford University
* Deep Learning Specialization – Offered by Deeplearning.ai
* ITIL V3 – Foundations Examination

**Storage Products and Skills**

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| **Vendor** | **Storage models** |
| EMC | VMAX, Power max, VNX, Isilon, XtremeIO |
| Isilon | X,S,NL Series, Gen 4,5,6, OneFS 7.x, 8.1  |
| Netapp | 7 Mode C mode, Ontap 8.x , Ontap 9.x FAS Series 8040, 3200, 2200 |
| FC Fabric (Brocade and Cisco)  | DCX, Blade switches, MDS, 9396,9148 Switches |
| Python | Python scripting |
| IBM | XIV, V5000, V7000, SVC, DS8000 and Blade centers |
| Cloud | Aws, Google Cloud, ECS and IBM COS |

**Organization and Technical Experience**

**Role: Storage Team Lead – Operations, support, migrations, implementation**

**Client: ADP**

**Location: Roseland NJ – USA**

**Duration: Nov 2016 to Till Date**

* Migrations by using different tools
	+ Open replicator, SRDF
	+ StorageX, Robocopy, EMCopy, XCP, Isi\_Vol\_Copy
	+ Fabric migrations Cisco and Brocade Fabric switches
* DELL PowerMax arrays and PURE storage arrays
	+ Installation, configuration, migrations, Local and remote replications
	+ Performance issues and troubleshooting
	+ Life Cycle management and Capacity management.
* Isilon and Netapp
	+ NFS, SMB and Multi protocol shares
	+ Sync IQ, IIQ, Snapshots, Quota, Job engine tasks and snap mirror etc..
	+ Hardware failures, Boot drives, Software bugs, CMC, Authentication issues
	+ Isilon to netapp migrations –
* Storage operations L3/L4 support on day to day operations
	+ Vmax, Pmax, PureStorage
	+ Local and remote replications
* Cisco MDS and Brocade Director switches
	+ Zoning by wwn based and exp on multiple vsans
	+ SLowdrain issues and fix
	+ Switch module and directon performance related issues
* Execute DR Exercise in the environment for Vmax, Isilon, Netapp, VSP, IBM Storage replications
* CODE upgrades
	+ Cisco MDS code upgrades
	+ Pure storage array code upgrades
	+ Vmax array code upgrades
* Worked in end to end design/planning /implement and migration from Isilon to NetApp using various file level copy tools such as StorgeX,NetApp XCP, Robocopy, Rsync.
* EMC PowerMax, Vmax – Day to day operations, Migrations and Implementations
* Pure Storage arrays -- Day to day operations, Migrations and Implementations
* EMC Isilon Administration and configuration. Setup SyncIQ, performance analysis and troubleshooting via InsighIQ. Working with SnapshotIQ, SmartDedupe, SmartConnect.
* CloudPool configuration and setup ECS as archival object storage from Isilon.
* Private cloud configuration using EMC ECS and retrieve object data through AWS S3 browser.
* Working knowledge of Cloud Storage services – AWS S3, Storage Gateways, EFS, EBS, Glaciar.
* both application teams and data canter hardware teams enabling them to provision storage to new SAN attached server and perform basic CISCO MDS SAN switch port bounces.
* Developed Rest API endpoints using flask-rest for VMAX / Netapp capacity, events and Performance’s data which can be requested through GET call on demand.
* Experienced in the Jenkins for continuous deployment and bitbucket for version controlling.
* Extensive Hands-on Implementation and maintenance experience with NetApp AFF8080 CMOD, EMC SAN VMAX/POWERMAX and Pure storage arrays
* Very Strong experiences in Remote Replication (SRDF, Global/metro mirror, snap mirror) for DR purposes, Local Replications (SNAPVx, clone, snapshots, and incremental backup) to refresh of point in time copies to QA environment.
* Solid understanding of one or more storage protocols including NFS, SMB/CIFS,
* Strong NAS administration skills for NetApp FAS filer, MetroCluster, SVM, filer, snap mirror, snapshots, quotas, volumes, and networking concepts
* Developed an API to allocate vmax block storage at VMware end using VASA tools.
* Hands on experiences in performance monitoring and management in NetApp using multiple tools like On Command Unified Manager OCUM, On Command System Manager, EMC Unisphere SYMCLI, CloudIQ, PureOne, Dynatrace and Grafana
* Forecasting the Storage arrays capacity and Front-end and other array resources load balancing based on performances stats.
* Assess the newer code/patch install using the release notes and vendor version of bugscrb and testing it in the lab arrays.
* Strong hands on experiences in CISCO MDS Port config, base install, code upgrade, VSAN, PORT CHANNELs, Zones, zone sets and slow drain analysis
* Reviewing and recertifying the Engineering standards, process, and procedures – SOPs for storage allocations and zoning activities.
* Escalation points for L3/L4 performance level incidents and created RCA documentations.
* Designed and Migrated old SAN CISCO TOR 9396 /9148 switches to new switches.
* Good understanding on the EMC POWERPATH and Multipath softwares
* Migrated the data from legacy VMAX arrays to Powermax using OPEN REPLICATOR and ASM

**Role: Storage SME Consultant – Operations**

**Client: Guardian Life -- WWT/Match Point/Integrated Consulting (Incoi)**

**Location: Bethlehem PA – USA**

**Duration: June 2016 to Nov 2016**

* Solutions engineering consultant as part of engineering team
* Recover point replications for VMAX, VNX and Isilon storage arrays
* Troubleshooting of all storage related issues
* Implementation of XtremeIO for production and DR sites
* Implementation of RecoverPoint for XtremeIO
* Brocade and Cisco fabric switch installation and configurations
* VMAX, VNX allocations/deallocations for servers
* Solution enabler – SRDF and Time finder operations
* Performance testing and analysis using native tools and reports updating

**Accenture:**

**Role: Storage Lead/SME – Support, Admin, Migrations, Implementation, Architect**

**Clients: Accenture - Sanofi Aventies, Michaels, Renault Nissan, Telenor
Location: Bangalore, India, Philippines, Singapore**

**Duration: Nov-10-2010 to May-05-2016**

* Worked with various SAN Migration tools like Open Replicator, Open Migrator, Host based VERITAS Volume Manager, Host based SvMotion for VMWARE servers to perform the Migration.
* Implemented Virtual Provisioning on VMAX and Migrated All the servers from DMX-4 to VMAX (Thick to Thin migration)
* Implemented FAST VP on the 3 VMAX arrays and applied the policies to the servers based on the server functionality.
* Implemented SRDF/STAR for three site replication (between 3 VMAX) for the required and Business critical applications.
* Daily maintenance and administration of enterprise SAN and NAS that included 3 Symmetrix V-Max arrays, VNX Gate Ways connected to several Windows, VMWARE ESX servers, Linux and Solaris servers in the Data Centre.
* Experience in provision storage using Symmetrix V-Max. Implemented Auto provision groups for mapping and masking.
* Involved in Workload rotation of various applications from Production site to 1st DR site (1st target site)
* Configured LSAN Zoning, Zoning on Brocade DCX through CLI.
* Troubleshooting of FCIP configuration b/n BROCADE DCX directors on various occasions.
* Identified, resolved configuration, problems with HBA drivers, and cabling. Upgraded firmware without disrupting the fabric. Troubleshooting Fiber cabling/Switch ports /ASIC/GBIC issues

**EMC Data Storage systems:**

**Role:EMC Storage Symmetrix, Clariion and Software products**

**Location: Bangalore, India**

**Duration: Dec-3-2007 to Nov-9-2010**

* Configure and manage all the DMX & Symmetrix model boxes using Solution Enabler.
* Configure and manage all the Clariion model boxes using Navisphere manager.
* Configuring and troubleshooting of PowerPath, Open Migrator, Symmetrix Management Console (SMC) and Open Replicator
* Configuring and troubleshooting of Fiber channel, ISCSI and boot from SAN issues for Symmetrix and Clariion Boxes.
* Configuring and troubleshooting of local and remote replication (Snapshot & Clone for Clariion boxes. Timefinder Mirror/Clone/Snap and SRDF/S, SRDF/A, SRDF/STAR for Symmetrix/DMX boxes.
* SAN implementation tasks include creating LUNs, LUN provisioning. Meta device creation and mapping
* Installation and upgrade of HBA drivers and firmware and troubleshoot of all connectivity related issues
* Administration of SAN setup with EMC DMX & Clariion storage
* Escalating the EMC products bugs to engineering teams and follow-ups.
* Writing the knowledge base solutions for new solutions
* Implementation & Testing of the SAN solution.
* Troubleshooting issues related to EMC Storage and Windows Hosts
* Managing and maintaining VMAX, DMX/Symmetrix and CLARiiON issues for EMC Global customers.
* Interacting with Customer Account Managers, Site Engineers and Product Engineering teams in EMC for providing technical solutions to the customers with-in the stipulated SLAs.
* Fixing storage administration issues related to VMAX, DMX and CLARiiON configuration in production environment.
* Resolving the issues related to connectivity, PowerPath, Solution Enabler and Replication Software like – SRDF, TimeFinder, Mirror View and SAN Copy.
* Collaborating with EMC Engineering Team and creating Primus solutions for the EMC internal knowledge-base; collaborating with Product Development teams for Patch release, testing & deployment at global customer sites related to Enabler and PowerPath.

**iGATE Global Solutions PVT LTD.**

**Role: Server and storage support engineer**

**Location: Bangalore, India**

**Duration: Oct-13-2005 to Nov-30-2007**

* Implementation of Cluster of their Mailing servers. And Implementation of Exchange 5.5
* Installation of Navishphere Application Server on one node. Implementation of SAN based on EMC Clariion Cx700, McData Switches Installation, Configuration and Administrating Domain controller servers running on windows 2000/windows 2003
* Installation and administration of NT 4.0 PDC and BDC servers

**COS-B – (Aviva) Network Support engineer**

**Role: Network support engineer**

**Location: Bangalore, India**

**Duration: May-6-2004 to Oct-10-2005**

* Handling Domain controller servers running on windows 2000.
* Creating and Maintaining OU’s, users and groups.
* Design and implementation of Legato Networker based online backup solution in a SAP environment.

**Wipro Infotech Ltd, Bangalore. – Quasar InfoTech**

**Role: Desktop and server support engineer**

**Location: Bangalore, India**

**Duration: Jan-9-2003 to Apr-30-2004**

* Leading a team of Engineers for the day to day operations
* Reporting and documenting the daily operational Activities
* Coordinating with Vendors for spares and other services
* Troubleshooting Windows 2000 Problems and NT server Problems with Minimal downtime
* Administration of Symantec Antivirus Server and centrally updating virus signature files in the server and monitoring and controlling 750 clients
* Implementation of the secured clients in Laptops (With Secure remote and RSA secure ID) for remote network access
* SUS server and client configuration for updating patches in all the desktops
* Handling Critical user’s laptop Problems.

**Robert Bosch Ind Pvt Ltd – System Tech Inc**

**Role: Desktop and server support engineer**

**Location: Bangalore, India**

**Duration: Jan-01-2001 to Jan-1-2003**

* Handling Microsoft support for BOSCH which includes troubleshooting various kinds of problems on Windows 9X, NT, 2K, Office97, Office2k etc.
* Installed and configured about 700 Compaq systems.
* Worked as on site system administrator, creating user accounts, managing resources & providing technical support.
* Installing and Configuring of Compaq servers.

**References available based on request**

**Education:** Bachelor’s Degree in computer science and Engineering.

**Year** 1996 – 1999