s

**240.252.0949**

Deion.c.smith@outlook.com

7825 Miller Fall Road

Derwood, MD 20855

Deion Smith

**TECHNICAL**

**SUMMARY:**

* I have consulted on many Hitachi / NetApp / EMC environments, where it is either Heterogeneous or Homogenous Storage Frames in a very large multi-petabyte, multi-fabric, and multi-tiered [SATA, SAS, Solid State] disk trays
* These consultations including storage capacity planning, disk re-alignment, disk optimization, disk recovery / conservation, disk expansion, and disk geometrical computational analysis
* My long-range planning and provisioning including LUN planning & provisioning months out to live data, live data transfer from older storage disk & frame to newly configured storage frames & drawers, zone clean up and fabric merger [ISL] with newer fully populated FC frame switches [Cisco Nexus / UCS and Brocade DC-4.

**TECHNICAL**

**SKILLS:**

* **Programming Languages**: SQL, JavaScript, PERL, C++, bash/csh scripting, Perl, tcl/tk, Expect, Exceed, REST / REST API, JSON, PowerShell, Python, GitHub, SPL / Splunk, vRLI
* **Operating Systems**: Sun Solaris v.11, Linux v.7, Microsoft Windows Server 2019, ESX v.6.7 U3
* **Storage Management Systems**: Unisphere, Navisphere, Command 7.5, Storage Volume Controller, HP Storage Works, 3PAR StorServ, Cisco UCS Manager, ioSphere, OneFS 8.1.2.0
* **Storage Platforms**: EMC vPlex, VNX, VMAX, Data Domain Appliance, Avamar Appliance, Recover Point Appliance; Hitachi VSP, USP-V, AMS 2500; NetApp Flex Pod, FAS 6500, FAS 3240, FAS 2040 R5; FusionIO; IBM DS9000, XIV; 3-PAR, Nimble Array, [Isilon] EMC PowerScale F900 & A3000

**EXPERIENCE:**

**May 28th – Present:;** **Solution Architect & Senior Virtualization:** I am presently performing tasks in the early stages of setting up a multi-federated, multi-tenant, multi-zoned dev/prod/test environment for government partners in brand new enclaves from an older model under revision using NSX-V, VCF, eSXi 8, VCF 4.4.a, and host of other management and security tools by VMware and third-party appliances upon DELL R960 PowerEdge® Platform. Mware ESX Hypervisor administration, including installation, configuration, virtual machine management, and performance monitoring. I am also standing up 5 new “enclaves” of 4 DFM & 3PB //S500 Object & File based arrays with Kubernetes containers & Gov-Cloud enabled backup and recovery.

**October 6th, 2023 –** March 29th, 2024**: Federated IT / USDOD //** [**www.dia.mil**](http://www.dia.mil)**; Solution Architect (Senior Storage SME) –** I am presently migrating legacy file-based “spinning disk” storage arrays to an all-flash storage array in a HCI [DELL V670F & V660 with INTEGRATED HCI SYSTEM SOFTWARE] which also has Amazon S3 services via VMware v.7.1.b built-in API and other cloud services. I have stood up Amazon Connect with Foundational Connect & Global Resiliency licensed and enable for multiple site data volume replication and application high availability for Amazon Web Services (AWS) Secret cloud to provide a secure and scalable cloud designed to address classified mission needs and critical workload requirements for the U.S. Intelligence Community and Department of Defense. Managing Server migration projects from physical to virtual machine (P2V). Working with network team to plan and provision lan/san drops for server environments. I have configured & migrated RHEL 7/8 enterpise-class workloads [400 virtula machines in a single cloud formation] from an IBM Cloudera to a 12-node DELL fully populated 720TB NVMe SSD Array PowerScale F900 under multiple containerization strategies - Kubernettes & Ceph and vCenter / ESXi v.8.0 U2 8.0 Update 2 (Build 22380479). For DR/BUF/COG, I also enabled / licensed, installed, & configured Site Reliability Engineering (SRE) for site-to-site and site-to-GovCloud applications, storage & compute nodes, authentication & security nodes, and logging nodes.

**July 31st – Sept 29th, 2023: Paraton // USDOD** [**www.dc3.mil**](http://www.dc3.mil)**; Solution Architect (Senior Storage & Backup SME);** I am currently upgrading the EOS/EOL Netapp and 3PAR arrays and Cohesity Backup appliances to NetApp Storage Grid v.11.8.2in parallel with a fully populated PowerFlex 4.0.3b HCI.

**April 24th – June 30th, 2023: LEIDOS // U. S. Department of Defense National Media Exploitation Center (NMEC)– EMC / DELL / Hitachi /Solution Architect**. I am currently “deep in the weeds” for a major upgrade for all-flash SSD NVMe / NVMeFCoE arrays for NAS / NFS / CIFS shares with over 90PB of storage in multiple namespaces and dozens of virtual machines being presented to ESXi vSphere 8.0.1 hosts for 1000s of Virtual Machines / VMs. I am currently standing up 5 silos of HPE by HP & DELL / EMC, which include HPE Cray EX2500, HP Exascale Super Computer, HP Slingshot Interconnect, DELL PowerScale, HP HPC PowerEdge Servers & PowerFlex 4.0.2e HCI.

**November 1, 2022 – April 24th, 2023: Innovative Data Solution [IDS] // Northrup-Grumman IT [NGIT] // U. S. Department of Defense www.nga.mil.** I have deployed from "soup to nuts" and NetApp StorageGRID v.10.4 >> v.11.6 with a future update to v.11.7 on a AFF A900 for software-defined object storage suite that supports a wide range of use cases across public, private, and hybrid multi-cloud environments with native support for Amazon S3 automated lifecycle management to store, secure, protect, and preserve unstructured data. I have stood up Amazon Connect with Foundational Connect & Global Resiliency licensed and enable for multiple site data volume replication and application high availability for Amazon Web Services (AWS) Secret cloud to provide a secure and scalable cloud designed to address classified mission needs and critical workload requirements for the U.S. Intelligence Community and Department of Defense.

I have with great success integrated the following products & services into StorageGrid:

Commvault Complete™ Backup & Recovery to protect data, virtual machines and applications.

Rubrik to protect and simplify all aspects of data management with policy-based automation.

Veeam Software to protect and manage backup data with StorageGRID as your Veeam Cloud Tier.

Splunk SmartStore with StorageGRID for storage at scale and performance

Apache Kafka to scale data storage tier and the data processing tier independently.

Vertica analytics for cloud-scale architecture.

Veritas Backup and restore data directly from on-premises object storage.

Alluxio Simplify and accelerate geo-distributed analytics platform at scale.

I have performed the following StorageGRID 11.6 functions during & post install:

Network guidelines

Install & maintain hardware

SG100 and SG1000 services appliances

SG6000 storage appliances

SG5700 storage appliances

SG5600 storage appliances

Install & upgrade software

Install Red Hat Enterprise Linux or CentOS

Install Ubuntu or Debian

Install VMware

Upgrade software

Configure the grid

Administer StorageGRID

Manage objects with ILM

System hardening

Configure StorageGRID for FabricPool

Manage objects

Use a tenant account

Use S3

Use Swift

Monitor & maintain

Monitor & troubleshoot

Expand your grid

Recover & maintain

Review audit logs

Learn how to enable StorageGRID

StorageGRID support page

NetApp Interoperability Matrix Tool (IMT)

I have also stood up, maintained, and performed “Towers of Hanoi” scheduled backups using Rubrik Version 7.0. 755-0190-01 Rev A26 and Cohesity v.7.0.1 w/S3 cloud integration. I am performing a major migration from GEN IV / V to the very latest OneFS v.9.1 w/PowerScale 90 -node F900 736TiB cluster [new] from a 40 node [old] cluster]. I also stood up a fully populated DELL PowerFlex 4.0 HCI. For DR/BUF/COG, I also enabled / licensed, installed, & configured Site Reliability Engineering (SRE) for site-to-site and site-to-GovCloud applications, storage & compute nodes, authentication & security nodes, and logging nodes.

**11/20 – 10/22 Copper River Technologies, Department of State Foreign Service Institute, Arlington, VA**

Senior Netapp Storage SME OnTap v.9.10.1 P2 and VMware vCenter v.7.1 U2 migration from v.6.0.0 Build 6855238 with automated VRO/VRA roll-out for Windows 2K19, Win 10 Pro VDI, and Kubernetes / Ansible Tower installation of RHEL v.7 & v.8 upon NETAPP AFF A220 dual controller in Metro Mode Configuration & replication with VEEAM v.11 and Rubrik 2U appliance back up enabled, configured, and scheduled based upon “The Towers of Hanoi” model. SAFE data backup using Cohesity Helios multi-Cloud DR solution. I also installed, configured, and placed under continued administration and engineering THALES HSM 9000 with Venafi PKI x.509 certificate management solution to manage and isolate encryption issues based upon the “Basic 17 KPIs” for crypto management [Symmetric vs. Asymmetric] and X509 v3 Extended Key Usage" certificate authorized for "TLS Web Server Authentication" and Web Server loads. HCX Migration and Google Cloud VMware Engine (GCVE). Installation, Configuration, and Administration of EMC vXRail Converge Appliance to handle SDDC workloads & automation tools. I engineered and administered SDDC Manager to orchestrate the deployment, configuration of vCenter, NSX-T to NSX-V Migration, Tanzu infrastructure DevOps with Kubernetes apps and conformant Kubernetes for self-service and compliant for development to production. and vRealize Suite above the ESXi and vSAN layers of VxRail and to unify multiple VxRail clusters as workload domains (WLDs) or as multiple WLD and multiple-availability in 5 zones (Multi-AZs). I administered SDDC Manager to deal with the stretched cluster configuration for a dual-availability zone (AZ) WLD.I have also upgraded VCF v.4.2 >> v.4.3 1b. Aiqum v.9.7 running in parallel to OnTap v.9.x for auditing, volume management, auto-provisioning, and DR. I have provisioned Solid Fire SSD Storage Array H610S-4 for iSCSI and NFS [NAS] volumes to Windows Server 2019 and RHEL 8 hosts along with capacity management & data deduplication for backup / recovery. I have also setup, configured, and administered daily NetApp OnCommand Unified Manager / OCUM 9.4 P1 for “single-pane” of management and tuning of the storage arrays, volumes, aggregates, and data growth. For DR/BUF/COG, I also enabled / licensed, installed, & configured Site Reliability Engineering (SRE) for site-to-site and site-to-GovCloud applications, storage & compute nodes, authentication & security nodes, and logging nodes.

**09/19 – 05/29/20 Sev1Tech – U. S. Census Bureau, Bowie, MD. Solution Architect (Storage Migration SME & Storage Ops Support) –** Isilon OneFS 8.2.0 target array migration to support both RHEL 7 / 8 and Microsoft Server 2016 ReFS with Storage Replica enabled for cross node file synchronization & replication. **Data Domain DD9800 [6.2.0.30-629757]** backup for NAS clients [SMB & NFS protocols] with 6 shelves of SATA-SSD & SAS disks. Develop PERL Script using EMC SMARTS API interface. Design and implement data and systems integrations with EMC SMARTS v.9.4 U2 with NSX-T and HCX integration with Google Cloud VMware Engine (GCVE), PRTG Network Monitor, MOLECH, and Splunk with ingest from vRLI - vRealize logs to Splunk logs/events. vCD / VMware Cloud Director integration with Cohesity Helios Cloud DR / Backup. I have provisioned Solid Fire SSD Storage Array H610S-4 for iSCSI and NFS [NAS] volumes to Windows Server 2019 and RHEL 8 hosts along with capacity management & data deduplication for backup / recovery. Isilon / PowerScale F900 & A3000 array configuration & migration from EOS / EOL Isilon 2-gen arrays. Compute Node work included Power BI & Cloud Azure [AD] integration and setup configuration with GitHub CM toolkit to carefully measure Machine Learning Studio and Azure Data Studio consumption of vCPU, vMemory, & vNetworking resources with accurate dashboards.

RAWHIDE [12/03 – 12/06] **Special Project for Sev1Tech** - DELL COMPELLENT Storage Array disk right-sizing & re-alignment and ESXi root password record & vCenter root password reset.

**10/19 – 12/19** ThreadFin **– Amalie Oil – Digital Workplace Solutions** installations and integration from VMware, VDI, & Storage Migration to support 300 virtual desktopsusing Unified Access Server, Connection Server, Jump Box, vREALIZE Ops Manager for Horizon, and other tools to aid in the migration of desktop / user settings for Windows 7 & 10 Professional. Active Directory, DNS and Group Policy to manage academic enterprise environment. Planned, designed, architect, and deploy Active Directory DC design, Schema, OU design, AD replication topology, and DC backup/restore procedures. Initial installation of ESXi 6.5 U1 and Windows 2019 Guest OS. vCD / VMware Cloud Director integration for DR / Backup.

**11/18/18 -- 6/28/19 INNOSOFT Corporation – U. S. Department of Education, 555-12 Street SW, Washington, DC – Senior Storage & Cloud Migration SME & VMware Engineer / Migration SME with OCI Integration and Architect level SME for single-pane management of a multi-vendor storage array.**

Netapp 7-mode to v. 9. R3 CDOT Storage Operating System Migration SME with OnCommand Insight / OCI single-pane of glass management to manage, troubleshoot, optimize, and justify multi-vendor environment [Nimble, EMC, Hitachi] running on FAS8080 EX with active FlexArray and ESXi v.6.9 / 7.0.1; migration of the entire EDCAPS FMSS BS R12 Architecture to the consolidated framework with HP C7000 and StorageGRID WS, as the ESXi hosts [48] running Windows 2K16 and RHEL 7 & 8 Enterprise with Cloudera & Hadoop enablement as the guests Operating Systems with parallel migration into Yottabyte Cloud Framework and VMware vCD vCloud vCD to virtualized premise equipment, infrastructure, software, & security into the cloud . I have demonstrated the design architecting of OCI, including integrating the current environment into the new OCI solutions, into a workable and visible “Proof of Technology” / “Proof of Concept” with minimum footprint and low cost. I have real-world installation & configuration of Site Recovery Manager [SRM] and vmotion for primary & secondary site fail-over and takeback for database, application, file, & other servers running RHEL 6/7/8 & Windows 2K8 / 2K12 / 2K16 I have extensive Citrix Xenapp Virtual Apps & Remote App Publishing for Remote Desktops, VDI & Horizon View experience in the build-out of Windows 10 Professional and migration from Windows 7 - state variables, Active Directory / DHCP zones / Group Policies, Home Directories, and favorites with PowerShell scripts. I have thorough Enterprise Datacenter Experience with Orchestrator & Composer to automate the provisioning of servers in a multi-tier and multi-tenancy configuration. Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency. vCD / VMware Cloud Director integration for DR / Backup. I have Proof of Technology” [POT] and “Proof of Concept” [POC] for new pre-deployment[s] of Storage Systems, Virtualization & Automation in VMware, Google Cloud VMware Engine (GCVE) setup and integration with current premise equipment, and Cohesity Helios Cloud Integration DR / Backup Recovery [DRAAS / BAAS]

**09-18 – 11/18 Zolon Technical Corporation – U. S. Library of Congress Madison Bldg. Washington, DC – Senior Storage & Cloud HCX Migration SME to Google Cloud VMware Engine (GCVE)**

Migration from EOL equipment to EMC ALL Flash Unity & Isilon & Nimble & RAID 1 Arrays. Implementation to merge & migrate to Yottabyte Cloud Infrastructure [StaaS, IaaS, & PaaS for over 27 Cloud Silos with 177 Petabytes of data AND complete migration, configuration, and integration with Oracle IAM Cloud Identity Management LDAP Server in parallel with a stand up for Oracle Human Capital Management – entire suite of HCM modules. Zscaler Cloud Security admin, tune, & trouble-shoot when dealing with multiple Cloud lakes & multiple Cloud Platforms. VMotion, vRealize & vCloud vCD [wmare ESXi 6.7 appliance in “witness mode”] for the full automated & rapid deployment of RHEL 7 & Windows 2016 servers & VDI desktops under Windows 10 and Digital Workplace Solutions from VMware and Citrix Xenapp Virtual Apps & Remote App Publishing for Remote Desktops. vRealize vCloud vCD deployments with HCX “hooks” to support migration to Yottabyte Cloud Environment - Lifecycle management, manage local and remote services, Quality of service, and performance Cost containment with Hadoop and Cloudera framework build-outs. ScienceLogic configuration to gain SLA metrics in the various cloud spaces. I developed VRO/VRA 8.x Automation scripts in JAVA and REST / REST API to deploy multi-tenancy environments running varying operating systems – Windows 2K8 / 2K16, RHEL v.6 >> v.8 – with a complete profile of networking, security settings, storage and mounted disks, vCPU, and system state variables and run level scripts. I have real-world installation & configuration of Site Recovery Manager [SRM] for primary & secondary site fail-over and takeback for database, application, file, & other servers running RHEL 6/7/8 & Windows 2K8 / 2K12 / 2K16 I have extensive VDI & Horizon View experience in the build-out of Windows 10 Professional and migration from Windows 7 - state variables, Active Directory / DHCP / Group Policies, Home Directories, and favorites with PowerShell scripts. I have thorough Enterprise Datacenter Experience with Orchestrator & Composer to automate the provisioning of servers in a multi-tier and multi-tenancy configuration. Develop PERL Script using EMC SMARTS API interface. Design and implement data and systems integrations with EMC SMARTS v.9.3 U2 with NSX / HCX integration, Tanzu infrastructure DevOps with Kubernetes apps and conformant Kubernetes for self-service and compliant for development to production. & PRTG Network Monitor. Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency. I have configured & migrated legacy backup media servers [NetBackup, Legato, CommVault Simpana] to Rubrik Data Management. I have Proof of Technology” [POT] and “Proof of Concept” [POC] for new pre-deployment[s] of Storage Systems, Virtualization & Automation in VMware, and Cloud Integration of DR / Backup Recovery [DRAAS / BAAS]. vCD / VMware Cloud Director integration for DR / Backup. I have provisioned Solid Fire SSD Storage Array H610S-4 for iSCSI and NFS [NAS] volumes to Windows Server 2019 and RHEL 8 hosts along with capacity management & data deduplication for backup / recovery

**06-18 09-18 Chenega Corporation for Accenture Federal // U. S. Library of Congress Madison Bldg. Washington, DC– Senior Storage & Unified Computing Specialist.** Cisco UCS 6332 Installation and Configuration. EMC Unity & Nimble Array Configuration. Windows 2016 Enterprise for File Server [ReFS] and AD, RHEL 7.x guest OS installation & VMware Orchestration + Raytheon Security Blanket System Hardening. InfoBlox DNS DHCP & NTP appliance installation and configuration. 2500 Physical-2-Vritual conversions. VMotion, vRealize & vCloud vCD [wmare ESXi 6.9 appliance in “witness mode”] for the full automated & rapid deployment of RHEL 7 & Windows 2016 servers & VDI desktops under Windows 10. vRealize vCloud vCD deployments with “hooks” to support migration to Yottabyte Cloud Environment - Lifecycle management, manage local and remote services, Quality of service, and performance Cost containment with Hadoop and Cloudera build-outs. . ScienceLogic configuration to gain SLA metrics in the various cloud spaces fully integrated with VRO /VRA v.8.0; I developed VRO/VRA Automation v.8.0 scripts in JAVA and REST / REST API to deploy multi-tenancy environments running varying operating systems – Windows 2K8 / 2K16 with DHCP, Active Directory, RHEL v.6 >> v.8 – with a complete profile of networking, security settings, storage and mounted disks, vCPU, and system state variables and run level & PowerShell scripts. Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency. I have configured & migrated legacy backup media servers [NetBackup, Legato, CommVault Simpana] to Rubrik Data Management. I have Proof of Technology” [POT] and “Proof of Concept” [POC] for new pre-deployment[s] of Storage Systems, Virtualization & Automation in VMware, and Cloud Integration of DR / Backup Recovery [DRAAS / BAAS]. vCD / VMware Cloud Director integration for DR / Backup and Google Cloud VMware Engine (GCVE) duplication and workload off-loading. Compute Node work included Power BI & Cloud Azure [AD] integration and setup configuration with GitHub CM toolkit to carefully measure Machine Learning Studio and Azure Data Studio consumption of vCPU, vMemory, & vNetworking resources with accurate dashboards. Installation & Configuration of Cisco Enterprise Chat and Email 12.0(1)

**04/18 – 06/18 Flexasoft for Fannie Mae Herndon, VA - Storage Systems Instrumentation**

POC for SolarWinds Storage Resoure Manager vs. Brocade Network Advisor vs. Splunk vs. ViPR for SRM for NetApp CDOT FAS8080 EX with active FlexArray v.9 and EMC PowerMax & Extreme I/O & Unity arrays to predict capacity and identify throughput bottlenecks in the fabric and disk arrays [Solid State & spinning disk] and StorageGRID WS installation and configuration. vRLI - vRealize logs to Splunk logs/event via forwarder.

**01/18 – 03/18 Insight Global for VENTECH // CMS.GOV – LDAP to AD Migration SME, Manassas, VA**

Migration of the entire environment from Sun One & Netscape Directory Server to Microsoft Active Directory under Windows 2K16 using QUEST LDAP to Active directory consolidation & migration toolset and PowerShell scripting to resolve UUID/ GIDs // SID issues. Complete Enterprise migration, configuration, and integration with Oracle IAM Cloud Identity Management LDAP Server in parallel with a stand up for Oracle Human Capital Management. Deployment of RHEL 7 Enterprise servers using ansible with Python scripts for full integrated API vRealize Orchestrator implementation.

Active Directory, DNS and Group Policy to manage academic enterprise environment. Planned, designed, architect, and deploy Active Directory DC design, Schema, OU design, AD replication topology, and DC backup/restore procedures

**12/16 – 9/17 Graduate School USA, Washington, DC – Senior Storage, Windows Systems Administrator, and VMware Engineer.** Veritas NBU 7.5.0.1 migration to NBU 8.0.1 with IBM LTO-6 tape vault, Symantec Endpoint migration to DELL Security Endpoint Appliance. Dell Storage Systems [FC, iSCSI, & FCoE protocols enabled] with ESXi 6.5.0.U1 hosts attached running vCenter and SRM and vmotion with migration to **VSA**N, **VxRail, Scale IO, VxRack EMC platforms** to support cloud multi-tenancy services. AVAMAR & Data Domain host backup server & data administration, Microsoft 2016 Enterprise Systems [WSUS, AD & Office 365 integration, PKI 2nd level authentication, DNS, DHCP] & Office 365 Administration [SharePoint, Yammer, e-mail, & a host of many collaborative tools], RHEL 7 Administration and automation with Puppet, Chef, & Ansible, and **VMware NSX** & HCX Appliance Installation, **CheckPoint 6800T Appliance & IDPA 5800 configuration integration**, Multi-tenancy Configuration, and Administration, Tanzu infrastructure DevOps with Kubernetes apps and conformant Kubernetes for self-service and compliant for development to production.. Microsoft PKI & CA Server Administration for hosts & user authentication for digital signage of certified documents and secure transmissions of e-mail and SFTP data. Data Migration for AS400 systems used to host transcript services for LANSA heavy lifting into new Windows SQL 2016 / Windows 2K16 database. Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency. vCD / VMware Cloud Director integration for DR / Backup.

* **Transportation** — moved data between source and target.
* **Transformation** — mapping data between different formats.
* **Process Orchestration VRO / VRA 8.0** — sequential and conditional execution of process flow.
* **Administration** — auditing, error-handling, logging, security and system operations.

Ansible’s unique multitier, multistep orchestration for multiple tenant RHEL 7 installation & configuration; Rolling updates

Continuous deployment of management content, Integrated stage testing, Version control-based deployment

Embedded tests in deployment. AD, Domain Name Services & Group Policy to manage academic enterprise environment. Planned, designed, architect, and deploy AD design, Schema, Organization Unit design, AD replication topology from Primary DC to Backup DC, and Domain Controller backup/restore procedures. I have administrative experience with Microsoft Identity Management. In-depth experience with Azure Administration, building resource groups and managing IaaS deployments. Administration with ADFS & AD Connect. Administration experience Architectural-level build outs w/Microsoft products like Data Protection Manager, Azure backup, SCCM, SCOM, and Exchange Online. I have experience with PowerShell and other scripting tools [JSON, Ansible, perl, bash, tcl/tk, etc.] coding automated deployment of applications and enforcement of group policies. I have experience with Azure services and Azure administration portal, resource groups, IaaS, PaaS and SaaS services. 4-core InfoBlox appliance installation, configuration, and administration for DNS, DHCP, and IP address management.

I developed VRO/VRA v.8.0. Automation scripts in JAVA and REST / REST API to deploy multi-tenancy environments running varying operating systems – Windows 2K8 / 2K16 with DHCP, Active Directory, & PowerShell scripts. RHEL v.6 >> v.8 – with a complete profile of networking, security settings, storage and mounted disks, vCPU, and system state variables and run level scripts.

I have real-world installation & configuration of Site Recovery Manager [SRM] for primary & secondary site fail-over and takeback for database, application, file, & other servers running RHEL 6/7/8 & Windows 2K8 / 2K12 / 2K16 I have extensive Digital Workplace Solutions from VMware with VDI & Horizon View experience in the build-out of Windows 10 Professional and migration from Windows 7 - state variables, AD / Group Policies, Home Directories, and favorites. I have thorough Enterprise Datacenter Experience with Orchestrator & Composer to automate the provisioning of servers in a multi-tier and multi-tenancy configuration. Citrix Xenapp Virtual Apps & Remote App Publishing for Remote Desktops

I also deployed & customized Splunk 7.0 OVF appliance in a VMWare ESXi 6.5 U1 environment to collect & log data from network devices, servers, and virtual host’s SIEM data analysis. eVAULT cloud backup & e-discovery migration - EVault SaaS for cloud-based backup and recovery. vRLI - vRealize logs to Splunk logs/events data injesting. Carbonite EVault Cloud Disaster Recovery Service for managed recovery in the EVault cloud with 4-hour Service Level Agreements. Evault Plug-n-Protect for appliance-based, on-premises, all-in-one backup and recovery for disk-to-disk, on-premises backup and recovery. EVault Endpoint Protection for integrated backup, recovery, and data security for laptops and desktops. Complete Enterprise migration, configuration, and integration with Oracle IAM Cloud Identity Management LDAP Server in parallel with a stand up for Oracle Human Capital Management entire suite of HCM modules. Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency.

Furthermore, I have written scripts to convert Windows File formats into Linux / RHEL 7 GFS2 file friendly formats in perl, python, and BASH to automate file moves, permission checks, Active Directory / AD to RBAC conversion, and file cleanup. And, performed PowerShell scripting for data moves in a hybrid-cloud environment – AWS – for remote shared files

I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow

I have added, delete, and moved users and groups within Active Directory [AD]. Performed Active Directory / AD cleanup for expired users & groups & permissions for security audits. I have performed AD multi-federation and multi-tenant I have written PowerShell code & batch code to deploy software & policy changes [password expiry and length, NTP sync,, DHCP, software audit & deployment] using Group Policy [GPO // gpforce] from command line & GUI. I have also administered Office365 and SharePoint for e-mail access and home / share directory remote synchronization and access with the following tool set:

* AIP : Azure Information Protection
* ATP : Azure Threat Protection
* MCAS : Microsoft Cloud App Security
* Office 365 Security Assessments
* Office 365/Azure Identity Management
* ScienceLogic configuration to gain SLA metrics in the various cloud spaces.

**09/16 – 12/16 Datamatic 96 hour contract: Installation of VEEAM backup and replication software – City of Mesa [remotely done]**

3-site veeam installation and configuration for VMware 6.5 with SRM and VSAN having Full MS SQL database for

500 virtual machines and 48 HP C7000 blades.

**32 hour “fix” for vm-ware veeam for LAACO, Ltd. – 2 site LA to LV replication backup issues**

Migrate MS SQL lite to Full SQL, fix replication and backup issues, and place backup jobs back on track

150 hour migration to VMware vSphere 6.5

**160 hour contract to migrate from EMC to IBM StoreWize v7000**

I performed the following Project Task for migration:

* Planning of Storage Layout
* Build-out of Storage Array
* Presentation of Storage-to-Host

With the following Project Deliverables:

* Update firmware, initialize disk, configure arrays with network information – subnets / vlans, NTP
* Create storage pools based upon file & block access
* Configure pools, exports, and files shares, file systems, files sets, directory structure for access and present storage to hosts
* Define users & RBAC rules for access & control
* Define authorization for access and complete documentation for customer hand-off

**96-hour contract for CDW / Ulta Beauty, Chicago, IL**

* Cutover to Cisco ACI leaf for 10 HP C7000 & Dell Chassis
* HP C7000 & Dell Chassis firmware update
* Configuration of 8 PB Dell EMC Unity 500F All-Flash Storage

**9/16 – 9/16 Norwin Technologies for WWT [40 hours “Rack & Stack” Time & Material job] St. Louis, MO**

* EMC Isilon 3 node array setup, configuration, and presentation to Cisco UCS
* Cisco UCS Service profile setup and configuration for ESXi 6.1 vmware host, Network portgroup creations at Layer2 level
* EMC VxRail integration with ESXi and Cisco UCS, EMC Scale IO & VxRack implementation & rollout
* VMware port group creation, Port mirroring on VMware vSwitch/dvSwitch (dvMirror), MIRRORING PORT ON A VSWITCH, Remote Mirroring Source and Remote Mirroring Destination (RSPAN), and Encapsulated Remote Mirroring (L3) Source (ERSPAN)

**8/16 – 9/16 Bechtel HQ – Hitachi, EMC, Cisco UCS, vm-ware, and NetApp Storage Engineer, Reston, VA**

**ManPower / Experis Contractor**

* Hitachi VSP G1000, HCP G10, AMS 2500, HNAS 310 – FC, FCoE and NAS [NFS]
* Cisco UCS installation, configuration, and administration
* Installation & Configuration of Cisco Enterprise Chat and Email 12.0(1)
* Cisco UCS Service profile setup and configuration for ESXi 6.1 vmware host, Network portgroup creations at Layer2 level
* VMware port group creation, Port mirroring on VMware vSwitch/dvSwitch (dvMirror), MIRRORING PORT ON A VSWITCH, Remote Mirroring Source and Remote Mirroring Destination (RSPAN), and Encapsulated Remote Mirroring (L3) Source (ERSPAN)
* NetApp 8080-Ex – SnapMirror, SnapProtect, and SnapVault administration & general SAN Admin [CIFS]
* vSphere vmware 6.0.5 ESXi Enterprise fully licensed – SRM, VMotoin & VSAN DR/BUF testing & stand up for physical & virtual machine migration
* EMC **Data Domain DD9500 and Avamar** setup, configuration, and administration for local & three remote sites
* **I developed VRO/VRA Automation v.8.0 scripts in JAVA and REST / REST API to deploy multi-tenancy environments running varying operating systems – Windows 2K8 / 2K16, RHEL v.6 >> v.8 – with a complete profile of networking, security settings, storage and mounted disks, vCPU, and system state variables and run level scripts.**
* **Hitachi Privileged Access Manager** I used to set up and manage multiple Domain “forest” password management, password policies & rules, and heterogenous systems / physical domains
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow

**9/15 – 6/16 Integrated Solutions Management – SAS Project U. S. Treasury, Washington, DC**

**Senior 3PAR Storage & Backup Engineer and SAS Administrator**

* I performed Storage Migration to GFS2 shared filed system from phase 1 to phase 2 using Peer Motion upon 3PAR StorServ 20000 with 20 – 2TB LUNs.
* I also setup & configured Remote Copy for DR from primary to backup site.
* I configured set-up, and the daily administration of DO – Dynamic optimization& Virtual Copy. I configured 4 SAS 9.4 M3 Storage and Compute nodes.
* I also performed day-to-day Storage Administration [new cpg / LUNs, expand LUNs, destroy LUNs – disk reclamation, creation of virtual volumes, Storage health check] and SAS Admin functions – shutdown / startup, add / remove users, etc.
* EMC DataDomain 890 databoost data de-duplication and replication for NAS [NFS] attached devices over 2 bonded 10-GigE interfaces
* Avamar Appliance Administration and agent deployment upon ESXi & RHEL servers
* SAS Administration and tuning with LSF for the compute and meta-data tier and functions for the mid-tier [startup / shutdown, updates, and GUI admin to add / remove users and jobs]
* SAS Grid Controller Administration for the submission and modeling of “Big Data” jobs
* Migration from SAS 9.2 non-clustered file system to SAS GRID 9.3 M5 GFS2 running on RHEL 6.7.002 upon 3-HP C7000 blades
* HP Operations Orchestration buildouts for Windows and Linux operating systems. S
* Managing SAS Application and Operating System level security, managing SAS Configuration Files, planning and scheduling SAS processes, integrating PIV card and Active Directory Authentication,
* Managing multi-tier SAS platform with products listed under SAS Data Analytics Platform (DAP) that includes SAS EBI, EDM, EM, Forecaster, Model Manager and Visual Analytics
* Setting up Data Access in SAS, including registering libraries and tables in the metadata, updating table metadata, setting up data access, and troubleshooting data access
* Experience with different SAS servers and troubleshooting potential configuration problems
* Any performance related issues, migration time issues that you have faced
* HSM 9000 & Venafi Enterprise PKI Key management server – Certificate grant, revoke, and edit - Enterprise Key and Certificate Management (EKCM) provisioning, discovery, monitoring, and management of digital certificates and encryption keys and integration with Thales HSM 9000 appliance.
* I have designed 2 and 3-tier MS CA based PKI (Root included) systems on Windows 2K19 / 2K16 / 2K12 / 2K8 with “brokering communication” between Venafi and HSM6000 / 9000 systems / Hitachi PAM. I have executed & performed the Root Key signing ceremonies and secured Root Keys. I have defined and documented processes for Key signing ceremonies for Root and Intermediate/Issuing Cas. I have installed and operating Microsoft Windows Server 2K19 >> 2K8 with Microsoft Certificate Authority.
* **vormetric data security integration with Azure Cloud services**, centralized management of data security policies and key management and Management through a Web-based console, command line interface (CLI) and a RESTful API. I performed RBAC control over data security policies, encryption keys, and DSM administration with a strong separation of duties.
* Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency.
* Configuration of 8 PB Dell EMC Unity 500F All-Flash Storage
* Python scripting for server & systems automation and SAS 9.4 M5 upgrade
* Migration from Solaris 10 & True 64 Unix to RHEL Kernel 6.7.3 & 7.0.2
* Automated RHEL 6 / 7 provisioning of servers using SpaceWalk and “native” Kickstart
* I have written scripts to convert Windows File formats into Linux / RHEL 7 GFS2 file friendly formats in perl, python, and BASH to automate file moves, permission checks, AD to RBAC conversion, and file cleanup
* AWS / Amazon Hybrid Cloud Integration with RHEL 7 Servers
* Carbonite EVault Cloud Disaster Recovery Service for managed recovery in the EVault cloud with 4-hour Service Level Agreements. Evault Plug-n-Protect for appliance-based, on-premises, all-in-one backup and recovery for disk-to-disk, on-premises backup and recovery. EVault Endpoint Protection for integrated backup, recovery, and data security for laptops and desktops.
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow
* ScienceLogic configuration to gain SLA metrics in the various cloud spaces

**7/15 – 8/15 Virtustream**,Vienna, VA

**Senior Backup & Storage Engineer** (100 hours Contract)

* EMC VMAX Storage Administration and Engineering.
* HP Data Protector, Science Logic EM7, and Asigra Enterprise Backup. NetApp Storage & vmotion virtual machine migration to EMC VMAX. Hitachi VSP Engineering and True Copy multisite setup, configuration, and administration. StorageGRID WS installation and configuration
* I have used CliQR – less so, Puppet & Chef to automate provisioning of RHEL & CentOS in a vm-ware / ESXi 5.5 >> 6.0.1 hosts cluster
* Prime Services Catalog – I have setup and configured the reporting utility and integration with third-party and free-ware products.
* UCS Director – I have setup & configured Cisco UCS to seamlessly integrate with vm-ware and Prime Services Catalog.
* Installation & Configuration of Cisco Enterprise Chat and Email 12.0(1)
* **Azure – just wrote a series of PowerShell scripts to provision in a hybrid cloud environmen**t.
* AWS / Amazon Hybrid Cloud Integration with RHEL 6 & 7 Servers
* Google Cloud Formation with multi-cloud trust relationship among Cloud Islands for data resiliency.
* **Hitachi Privileged Access Manager** I used to set up and manage multiple Domain “forest” password management, password policies & rules, and heterogenous systems / physical domains
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow
* VRO & VRA VMware automation 8.0 workflow deployment of environments. I developed VRO/VRA Automation 8.0 scripts in JAVA and REST / REST API to deploy multi-tenancy environments running varying operating systems – Windows 2K8 / 2K16, RHEL v.6 >> v.8 – with a complete profile of networking, security settings, storage and mounted disks, vCPU, and system state variables and run level scripts.
* StorageX Migration Software to “lift & shift” CIFS shares from NetApp to EMC filers

**1/15 – 5/15 Trowbridge & Trowbridge - BLS.Gov**, Washington, DC

**Senior Storage and Backup Engineer** (Contract)

* NetApp 8060 Engineering and migration from FAS 3140 & 3270 filers.
* NetBackup 7.6.1 Execution, creation, and Integration of Transition Plan and Run Book in current environment of SAS and Oracle Databases, BUF / DR of Oracle Data using Snap Manager for Oracle.
* Zoning of SAN Fabric in a Cisco Nexus 7000 environment. Standing up of HP C7000 and Moon Shot with vm-ware 6.0.1 + SRM, VMOTION, & VSAN + vCOP + Orchestrator for provisioning of guest operating systems [Windows 2012 R2, RHEL 6, Cent OS, Solaris 10 / 11].
* Symantec NetBackup 7.6 and Storage Foundation Enterprise HA/DR 6.0implementation with Oracle 12 w/RAC DR/BUF clustering and replication licensed enabled, configured, and tested.
* Veritas Replicator Option 6.0 configured and enabled for SAS 9.1.0.2 "grid" running in a RHEL 7.0 Unix 12-node clustered environment.
* ESXi v.3.5.5 >> Microsoft HyperVisor conversion [V-2-V]
* AWS / Amazon Hybrid Cloud Integration with RHEL 6 Servers
* Carbonite EVault Cloud Disaster Recovery Service for managed recovery in the EVault cloud with 4-hour Service Level Agreements.EVault Plug-n-Protect for appliance-based, on-premises, all-in-one backup and recovery for disk-to-disk, on-premises backup and recovery. EVault Endpoint Protection for integrated backup, recovery, and data security for laptops and desktops.
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow
* HP Operations Orchestration buildouts for Windows and Linux operating systems.

**7/14 – 11/14 Mastech – NIH/ eRA**, Rockville, MD

**Senior Storage, Backup, & VM-ware Engineer**

* Installation, configuration, design, provisioning, and day-to-day administration for NetApp FAS8060, Cisco Nexus 7018, HP C7000, and Oracle / SUN Exadata devices for a major migration effort.
* ORACLE STORAGE APPLIANCES ORACLE ZFS STORAGE 7420, ZFS STORAGE ZS3-2, ZFS STORAGE ZS3-4, ZFS
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow

**4/14 Seamon Corporation**

**Client**: Office of the Currency Controller, Washington, DC (32 hours)

**Project**: VmWare vCOP dashboard configuration and interpretation

* Storage Capacity, Recovery, & Planning in a mixed Storage Environment of NetApp, Hitachi, EMCIsilon, VMAX and VPLEX, FusionIO, and IBM XIV using VMware vCOP v.5.2.
* Isilon OneFS CIFS & NFS shares exports, global permissions, iSCSI replication enablement and configuration.

**11/13 – 3/14 AHRQ.HHS.gov**, Rockville, MD

**VMware 5.1 & EMC Storage Engineer** (Contract)

* Provisioning of LUNs in an EMC Isilon, VMAX array for ESX data stores & FusionIO SSD array for VDI, “soft” zoning of 24-port Brocade Fabric Switch, and Installation / Configuration of HP Blade Chassis C7000 full length [Windows Server 2012 R2 with RFS & RHEL 7] in a VMware 5.1 ESX multi-node cluster running SRM, VSAN, & vmotion for physical & virtual machine migration.
* vCloud vCD Automation Center 5.1 & vRealize implementation, configuration, and roll-out.
* Isilon OneFS CIFS & NFS shares exports, global permissions, iSCSI replication enablement and configuration.
* Configuration of SAP SRM / VSAN 5> 7 environments. Upgrade from SRM & VSAN Version 5 to Version 7.0. Functional and configuration experience with SRM 7.0.
* I have used CliQR – less so, Puppet & Chef to automate provisioning of RHEL & CentOS in a vm-ware / ESXi 5.5 >> 6.0.1 hosts cluster
* AWS / Amazon Hybrid Cloud Integration with RHEL 6 Servers
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow

**7/13 – 10/13 CGI**, Phoenix, AZ [Remotely done but was on-site for 2 wks.]

**Hitachi VSP Storage Engineer** (contract) (Remote)

**Client**: healthcare.gov

* Provisioning of Storage Arrays & LUNs with Command 7.5 and Storage Fabric with Brocade Fabric Manager.
* Commissioning of Storage Groups & Volumes for ESX 5.5 servers, Blade servers, Solaris & Linux bare metal servers all with dual HBAs and Multi-path enabled from the LDEV-to-Fabric-to-HBA.
* Storage // Volume Wide Area and in-frame replication & duplication [True-Copy & Data-duplicator II].
* Hitachi Device Manager & Tuning Manager for optimization and reporting statistics for Storage Processors, LUNs, & Frames. VCloud vCD Automation Center 5.1 integration and storage optimization.
* **Hitachi Privileged Access Manager** I used to set up and manage multiple Domain “forest” password management, password policies & rules, and heterogenous systems / physical domains
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow

**Unisys**

**Solar Winds Storage Manager July to September** (170 hours contract)

**Client**: JMC Steel (remote)

* Installation and configuration of Storage Manager upon VCenter, EMC Isilon, VNX 5300, & VNXe all-flash array storage systems.
* Reporting of storage utilization, file types and ageing, CPU & resource over-subscription, CIFS file shares.

**1/13 – 5/13 Quantum Vision on Northrop-Grumman**

**Lead EMC Storage // Virtualization and Backup Engineer** (Contract)

**Client**: Social Security Administration, Woodlawn, MD

* Configuration and Installation of Storage virtualization for EMCIsilon VPLEX, VMAX, and VNX storage arrays and data migration from older EMC storage frames.
* VMware Optimization and p2v conversions of over 1500 physical machines [Windows & RHEL] using vmotion
* VCloud vCD Automation Center 5.1 implementation, configuration, and roll-out.
* VCenter Operations Manager, VMware vFabric Hyperic, and VMware vFabric AppInsight.
* Data Domain Installation & Configuration at 25 sites and Recover Point replication appliance set up and configuration for 1 local and 2 global sites with Global Object replication enabled.
* Symantec NetBackup v.7.5.2 Media client installation and configuration with Storage Tek LTO-5 tape vault and data domain VTL.
* Integrated & applied data domain & UniSphere log-ins & zoning configuration with Storage Domain.
* Clever safe Object Data Replication set up and configuration in a failsafe mode to Data Domain / Avamar. Recover Point in-frame & out-of-frame data duplication.
* EMC Avamar Configuration &Administration for 18 PB of EMC storage & 24 remote sites.
* EMC ViPR Hyper-scale data object storage provisioning [test phase – not customer accepted].
* encipher HSM 9000 encryption appliance installation & configuration & verification.
* I have designed 2 and 3-tier MS CA based PKI (Root included) systems on Windows 2K19 / 2K16 / 2K12 / 2K8 with “brokering communication” between Venafi and HSM6000 / 9000 systems / Hitachi PAM. I have executed & performed the Root Key signing ceremonies and secured Root Keys. I have defined and documented processes for Key signing ceremonies for Root and Intermediate/Issuing Cas. I have installed and operating Microsoft Windows Server 2K19 >> 2K8 with Microsoft Certificate Authority.
* Cisco Nexus 7000 // MDX 9000 series FCip WAN SAN replication setup, install, & configuration.
* SAN Screen™ Installation and BMC CMDB ATRIUM Integration for database & application monitoring for both physical & VMs machines.
* SANSCreen™ Administration and Optimization for Service Assurance, Application Insight, VM Insight, vRealize, and Service Insight.
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow

VMware vCloud vCD provided technical expertise in the building out cloud infrastructure:

* Standardized Homogeneous infrastructure delivered across pools of standard x86 hardware & VmWare ESX 5.01 host.
* Cloud platform optimized for the entire datacenter fabric.
* Configured automated management framework to execute complex and brittle scripting, for cloud-scale operations against database and web servers.
* Resiliency Testing to ensure software-based architecture compensated for failing hardware.
* Isilon OneFS CIFS & NFS shares exports, global permissions, iSCSI replication enablement and configuration.
* I have used CliQR – less so, Puppet & Chef to automate provisioning of RHEL & CentOS in a vm-ware / ESXi 5.5 >> 6.0.1 hosts cluster
* Prime Services Catalog – I have setup and configured the reporting utility and integration with third-party and free-ware products.
* ESXi v.3.5.5 >> Microsoft HyperVisor conversion [V-2-V]

**12/12 – 1/13 Datamatics – AT&T & Cisco; Hitachi Data Systems – remotely done**

**Senior Storage Data Migration SME – Softek transparent data migration facility (TDMF®) z/OS®**

* VxFs to ZFS conversions [AT&T] upon Oracle iStore frames.
* Oracle iStore and Configurator.
* Zpool mirror creation and confirmation [bash scripting] [AT&T].
* OBP firmware update v890 [AT&T].
* Acquire, Asses, catalog, & organize all volumes, volume groups, & LUNs to be migrated.
* Gain access to old and new storage controllers, and fabric switches.
* Confirm the source & target LUNs are in the same soft zone. If not, re-zone accordingly.
* Access any in-house third party or vendor tools to observe and gather empirical evidence of flow rate.
* Map all of the source and target data volumes & LUNS.
* Verify one or more data volumes / LUNs being transferred with TDMF.
* Fine tune and debug any issues with TDMF, especially related to open databases and any specialized scripting upon the database engine [quiescent script].
* Begin the entire one-time move of all LUNS.
* Verify the data integrity of the LUNS after copy.
* Remap the host to the new LUNs.
* Verify the new mounts and associated new LUN masks are working properly.
* Decommission the old storage array.
* Clean up the zones on the fabric switch.
* Finalize with “Customer Acceptance Testing” for the new SAN equipment / LUNs.
* Hitachi VSP Command Center v.7.00.1 and Data Duplicator2 configuration and LUN copy migration.
* Oracle RMAN /DBA and Hitachi Shadow Image integration and Unix scripting for database cloning and replication.
* **Hitachi Privileged Access Manager** I used to set up and manage multiple Domain “forest” password management, password policies & rules, and heterogenous systems / physical domains

**9/12 – 10/12 22nd Century – D. C. Courts, Washington, DC**

**Senior Storage, Security, &Unix / Windows Systems Engineer**

**Project**: NetApp 2040 & HP C7000 Blade migration project (Contract ended)

* Migrate data LUNS using Snap Mirror for Exchange.
* Zoning of Cisco FC switches inside HP Rack / C7000 Chassis to Cisco Nexus 5000 series.
* VLAN configuration of the C7000 full length blades.
* Presentation of LUNS to the C7000 blades.
* HP Operations Orchestration build-outs for Windows and Linux operating systems.
* Setup, configuration, job scheduling of backup StorageTEK tape drives [LTO-5] using **CommVault Simpana v.9.0.R2.**
* Government Acceptance Unit / White Box testing and acceptance.
* RHEL Open LDAP setup, installation, configuration and integration with Windows 2008 R2 Active Directory [36 full-length HP blade OS Kernel build outs of RHEL & Windows].
* SAN Screen™ Installation and BMC CMDB ATRIUM Integration for database & application monitoring for both physical & VMs machines.
* SANSCreen™ Administration and Optimization for Service Assurance, Application Insight, VM Insight, and Service Insight.
* Performed real-world deployment and scripting experience leveraging HP’s XP line of SAN equipment.
* I have added, delete, and moved users and groups within Active Directory [AD]. Performed AD cleanup for expired users & groups & permissions for security audits. I have performed AD multi-federation and multi-tenant I have written PowerShell code & batch code to deploy software & policy changes [password expiry and length, NTP sync, software audit & deployment] using Group Policy [GPO // gpforce] from command line & GUI. I have also administered Office365 and Sharepoint for e-mail access and home / share directory remote synchronization and access.
* Performed extensive scripting to extract data, relationships, or executing commands to manage SAN storage and day-to-day provisioning.
* Experience in writing scripts for web or REST services.

**8/12 – 9/12 National Institute of Health, Office of the Director, Bethesda, MD**

**Storage, Security, Disaster, Backup, & Recovery Engineer** (Contract ended)

**Project**: NetApp 3270 / **CommVault Simpana v.9.0.2** / Brocade 8GB FC task order:

* Disk and LUN re-alignment.
* Data migration from FC disk to SAS disk using **CommVault** migration tool.
* 1 GB copper to 10 GB Fiber net migration.
* Current back up scheduler monitoring and new back up job provisioning.
* Storage Provisioning on FAS3270.
* Additional Storage Fabric and Storage Tray add ons.
* Disaster drills and weekend on-call.
* Integration and Unit Testing [Grey Box] and DoDAF framework user-ability testing & script automation of testing modules.
* Administered & build out of 24 RHEL & Ubuntu linux servers for data ingest & data base servers [Oracle & MySQL].
* SAN Screen™ Installation and BMC CMDB ATRIUM Integration for database & application monitoring for both physical & VMs machines.
* SANSCreen™ Administration and Optimization for Service Assurance, Application Insight, VM Insight, and Service Insight.
* VCenter Operations Manager, vRealize, VMware vFabric Hyperic, and VMware vFabric AppInsight.
* StorageX Migration Software to “lift & shift” CIFS shares from NetApp to EMC filers

**8/12 – 9/12 CCC**, Chicago, IL on “T&M”

**Storage & Security Architect // Engineer** (160 hour contract) (on-site & remote)

**Storage & Data Migration – Task Order**

* Requirements Capture and Risk Mitigation.
* Physical setup, cabling, zoning, phone home, Active Directory, clustering, and Configuration of HP 38000 NAS filers & Windows Storage Server 2008 R2.
* Virtualized 3PAR Storage with HP NAS filer and LUN carving.
* Prepping for LUN transfer.
* Double-take Enterprise Version for LUN & Volume transfer of data luns from “old” EMC filer to HP / 3PAR configuration.
* User Acceptance Testing & White Box methods for UAT / CAT testing & Perl script automation for data load simulation against FCoE WAN replication.
* Performed real-world deployment and scripting experience leveraging HP’s XP line of SAN equipment.
* Performed extensive scripting to extract data, relationships, or executing commands to manage SAN storage and day-to-day provisioning.
* Experience in writing scripts for web or REST services.
* Performed real-world deployment and scripting experience leveraging HP’s XP line of SAN equipment.
* Performed extensive scripting to extract data, relationships, or executing commands to manage SAN storage and day-to-day provisioning.
* Experience in writing scripts for web or REST services.
* StorageX Migration Software to “lift & shift” CIFS shares from NetApp to EMC filers

**3/12 – 5/12 Tangible Software**, Falls Church, VA

**Lead Storage Engineer & PKI / LDAP RHEL Security & Encryption Linux Engineer** (Contract)

**Project**: DISA.MIL GDS project

* Storage Frame Optimization, Storage Administration [LUN masking, fiber channel zoning, LUN creation, file system lay downs, & LUN presentation] and QoS systems enhancements for EMC CX3-10 migration to HP HSV 300 Blade Chassis & P6000 storage frames.
* RHEL Enterprise LDAP server administration and PKI x.509 certificate CA server Administration. HP Blade Chassis & Storage HSV 300 Subsystem w/FC450 GB [10 drawers] migration, set up, configuration, and build outs.
* Clever Safe® dsNET Manager 2100, Accesser 2100, & Slice Store 2210 setup, configuration, and administration for multi-site RAID Disaster Recovery total solution.
* Brocade Silkworm 4100-32 port 2/4GB FC fabric administration [zone creation, zone delete, zoning & port aliasing, etc.].
* Installation and stand-up of over 48 RHEL 6.0 Linux servers on 3 HP UCS Blade systems and configured HP Blade Chassis’ network and fabric profiles.
* RHEL open LDAP v.6 & v.7.x Server Installation & schema // ldif verification & import. Black Box Government Acceptance Testing & user module builds & scripts for automatic LDAP schema WAN replication & LUN WAN replication traffic flows.
* Automated RHEL 6 provisioning of servers using SpaceWalk and “native” Kickstart
* Isilon OneFS CIFS & NFS shares exports, global permissions, iSCSI replication enablement and configuration.
* Venafi Enterprise PKI Key management server – Certificate grant, revoke, and edit - Enterprise Key and Certificate Management (EKCM) provisioning, discovery, monitoring, and management of digital certificates and encryption keys and integration with Thales HSM 6000 appliance.
* I have designed 2 and 3-tier MS CA based PKI (Root included) systems on Windows 2K19 / 2K16 / 2K12 / 2K8 with “brokering communication” between Venafi and HSM6000 / 9000 systems / Hitachi PAM. I have executed & performed the Root Key signing ceremonies and secured Root Keys. I have defined and documented processes for Key signing ceremonies for Root and Intermediate/Issuing Cas. I have installed and operating Microsoft Windows Server 2K19 >> 2K8 with Microsoft Certificate Authority.
* vormetric data security integration with Azure Cloud services, centralized management of data security policies and key management and Management through a Web-based console, command line interface (CLI) and a RESTful API. I performed RBAC control over data security policies, encryption keys, and DSM administration with a strong separation of duties.
* STIG A Hardening of Storage, Server, & Workstation Operating Systems [Windows 2008 R2, RHEL 6, Windows 7 Professional, & Isilon OneFS]

**5/11 – 8/11 USDA National Agriculture Library**, Beltsville, MD

**VMware & RHEL / CentOS Security Engineer** (700 hour Contract)

* Installation, configuration, testing, and full integration of Security Blanket, tripwire, splunk v.4.3, Operations Manager, Hyper9, & other NetApp tools for the complete over-haul of FAS2040 40 VM environment, 80 additional P-2-Vs, security hardening to FISMA, DCID 6/3, JAFAN 6/3, NISPROM Chapter 8, NSA Secure Configuration, & SANS LAMP configuration and model using Security Blanket for CENT\_OS & RHEL 5 Unix servers.
* Installed 4 additional storage trays and stood up 2-6200 NetApp controllers along with 2 brocade DCX-4s. NetApp oNTaP 8.0.1 SNAP Manager Suite of tools utilization; snap mirror, snap drive, Sync Mirror, snap vault, snap clone, & snap protect for backup & DR hot site recovery.
* Migration from MS SQL 2005 lite to SQL 2008 Enterprise with clustering for VCenter database. Stood up from iso into ESX / VMware 4.0.1 environment CENT\_OS 6.0 and RHEL 5.0.1 using VCenter tools.
* Placed RHEL Unix hosts into “clustered” environment using VCenter // VmWare tool for clustering & cpu “throttle” control, Red Hat Satellite Server automation for downloading of patches, and Perl scripting for log rotation.
* Windows 2008 R2 64 bit VM stand ups & Exchange 2010 cluster set up, configuration, & tuning with BlackBerry integration & add-on. Active Directory schema & security profile checks for a new “virtual server forest” that I created.
* Stood up and performed “dash boarding” comparison between CapacityIQ vs. vkernel vs. Solar Wind appliances to help “optimize” the current infrastructure and VMs to a “best fit” scenario.
* I have executed “planning & acceptance procedures” for “Customer // Government Acceptance Testing” for the physical-to-virtual conversion which were validated and accepted by the customer upon review. I have also upgraded the virtual infrastructure from ESX 4.1 Enterprise with SRM VSAN to VMware Vsphere version 5.0.1 & Site Recovery Manager 5.0 for business continuity.
* NetApp FAS2040R5 firmware updates & phone home configuration.
* Government Acceptance Testing [GAT Grey & White Box methods] for virtual machine replication & disaster failover testing [vmotion & SRM as the engine of choice]. HA, vmotion, VSAN, SRM, & DRS optimization for vSphere 5.0 & 4.1. Create, analyze, and manage resource pools, virtual clusters, alert structures, security groups, permissions, vm templates, virtual networks. Snap Manager for Oracle.
* VMware vCloud vCD provided technical expertise in the building out cloud infrastructure:
  + - Standardized Homogeneous infrastructure delivered across pools of standard x86 hardware & VmWare ESX 5.01 host.
    - Cloud platform optimized for the entire datacenter fabric.
    - Configured automated management framework to execute complex and brittle scripting, for cloud-scale operations against database and web servers.
    - Resiliency Testing to ensure software-based architecture compensated for failing hardware.
* VCenter Operations Manager, VMware vFabric Hyperic, and VMware vFabric AppInsight.
* 4-core InfoBlox appliance installation, configuration, and administration for DNS, DHCP, and IP address management.

**9/10 – 1/11 Capstone Corporation**

**Senior Storage Engineer**

**Client**: Nara.Gov, Rocket Center, W. VA and College Park, MD

* Installation, Configuration {iSCSI, FCip, CFIS, NFS}, LUN provisioning, and Administration for Hitachi AMS 2500 & USP V, NetApp FAS 6000, Brocade DCX-4, Storage Tek Tape Library, & replication for DR/BUF <Hitachi Universal Replicator& Snap Mirror – Snap Vault> // media servers for a 2 PB SAN array having over 300 LUNS. Storage Virtualization using Hitachi Storage Navigator, Hitachi HiTrack, Hitachi Tiered Storage Manager, Hitachi VSP, and Device Manager.
* I performed volume migration through the use of custom tiering using Tiered Storage Manager. I enabled storage system and storage semantics with higher-level application data quality of service (QoS) metrics and customer-definable storage tiers (custom tiers).
* I enabled performance optimization through integration with Hitachi Tuning Manager software. I realigned application storage allocations.
* I managed volume locations relative to an application’s minimum requirements. Performed build migration groups and custom tiers.
* I enabled performance monitor software which allowed one to see performance within the storage system.
* I also installed, configured, and placed under continued administration and engineering THALES HSM 9000 with Venafi PKI x.509 certificate management solution to manage and isolate encryption issues based upon the “Basic 17 KPIs” for crypto management [Symmetric vs. Asymmetric] and X509 v3 Extended Key Usage" certificate authorized for "TLS Web Server Authentication" and Web Server loads.
* BOSS & On Tap v.7.x configuration to enable phone-home feature & system diagnostics, firmware updates, disk-to-FC channel assignments.
* I used Storage Navigator LUN Management software for configuration management to define, configure, add, delete, expand, revise and reassign LUNs to specific paths dynamically. I performed SAN Security [LUN Masking] to ensure security in open systems storage area networking environments through restricted server access.
* I performed replication Setup and Management feature to provide basic configuration and management of Hitachi Shadow Image®, Copy-on-Write and True Copy® mirrored pairs. Performed Modular Volume Migration to enabled dynamic data migration.
* I made active use of Hitachi Cache Residency Manager feature allows you to "lock" and "unlock" data into cache in real time to optimize access to your most frequently accessed data and Hitachi Cache Partition Manager feature allows partitioning of the cache by the application to improve performance.
* I used and performed dynamic addition of HDDs to a RAID Group, System Maintenance for online controller microcode updates and other system maintenance functions, and SNMP Agent support includes Hitachi specific MIBs and enables SNMP-based reporting on status and alerts for Hitachi storage systems via e-mail.
* Oracle RMAN /DBA and Hitachi Shadow Image integration and Unix scripting for database cloning and replication with multiple Oracle database instances. Snap Manager for Oracle.
* Symantec NetBackup v.7.0.1 installation, setup, & configuration, NBU Installation & Configuration, NBU Implementation, Design and Architecture Implementation, Network Data Management Protocol configuration and tuning, Domains, NFS, AIX, and Windows 2008 R2 64 bit.
* Setup Media Server on a Windows 2008 R2 64 host with HBA to address 5 LTO-5 LUNS in a Storage Tek Tape Library.
* Performed DR site recovery and backup dump installation & configuration utilizing ONTAP 7.0G flexvol, snap mirror, & snap vault [Snap Manager] per delta on a daily basis for GroupWise post offices & core data dumps upon a FAS6200 over iSCSI.
* Stood up 24 RHEL Linux OS kernels in a HP Blade Chassis. Installed and configured GroupWise post offices [9] and associated GroupWise Middle-ware servers.
* Performed real-world deployment and scripting experience leveraging HP’s XP& HSV line of SAN equipment.
* Performed extensive scripting to extract data, relationships, or executing commands to manage SAN storage and day-to-day provisioning.
* Experience in writing scripts for web or REST services.
* **Hitachi Privileged Access Manager** I used to set up and manage multiple Domain “forest” password management, password policies & rules, and heterogenous systems / physical domains
* StorageX Migration Software to “lift & shift” CIFS shares from NetApp to EMC filers

**3/10 – 9/10 IBM Federal Innovation Solution Center**, Bethesda, MD

**Virtualization & Storage Engineer** (Moved onto a new opportunity) (Contract)

* IBM DS5000 // DS8000 SVC & HMC installation, configuration, and administration [phone home, adding of disk trays [SATA & SAS], firmware updates, etc.
* LUN creation & presentation to hosts from SAN Fabric DS5000 // DS8000.
* vKernel installation & configuration for LUN storage optimization.
* VMware View 6.5 & 7.0 Installation & testing for single & multiple VMs.
* VCenter Operations Manager, VMware vFabric Hyperic, and VMware vFabric AppInsight.
* LPAR creation & installation for AIX Power 7, AIX 5.3, RHEL 6+ [VIO, VIM, NIM, WPAR, LPAR, etc].
* ISS Secure Cloudburst Appliance installation & configuration.
* IBM Intel/AMD Blade Server setup, configuration, & Virtualization.
* Cisco Nexus 7000 Setup and Configuration for vSAN & SAN.
* Brocade Data Center Fabric Manager (DCFM) Enterprise set up & administration.
* Tivoli Storage Manager v.6.0.1 setup, updates, configuration, and administration.
* VMware VMotion & Site Recovery Manager configuration & continuity stress testing for DR // BUF site.
* HA, vmotion, VSAN, SRM, & DRS optimization for vSphere 4.1. Create, analyze, and manage resource pools, virtual clusters, alert structures, security groups, permissions, vm templates, virtual networks.
* Flash Copy [TSM] backup of all active, cloned, & copied VMs at prime & remote sites.
* VMware Lab Manager & Vkernel installation, configuration, and implementation for configuration management and server rollouts of Windows 2008 & RHEL Linux servers. Performed 210 P-2-V conversions using VCenter tool.
* IBM WebSphere DataPower XI50 appliance configuration & administration with HSM enabled
* I have designed 2 and 3-tier MS CA based PKI (Root included) systems on Windows 2K19 / 2K16 / 2K12 / 2K8 with “brokering communication” between Venafi and HSM6000 / 9000 systems / Hitachi PAM. I have executed & performed the Root Key signing ceremonies and secured Root Keys. I have defined and documented processes for Key signing ceremonies for Root and Intermediate/Issuing Cas. I have installed and operating Microsoft Windows Server 2K19 >> 2K8 with Microsoft Certificate Authority.
* I have executed “planning & acceptance procedures” for “Customer // Government Acceptance Testing” for the physical-to-virtual conversion which were validated and accepted by the customer upon review. I have also provided installation & administration support for the entire suite of Tivoli products listed below:
* IBM Tivoli Access Manager for e-business (TAMeb).
* IBM Tivoli Access Manager for Operating Systems (TAMOS) - controls access to operating system resources.
* IBM Tivoli Access Manager for Enterprise Single Sign-On (TAMESSO).
* Tivoli Access Manager for e-business.
* I have installed, configured, and administered Tivoli Access Manager to provide policy-based security. I have tuned & provide macros, scripts, and module plug-ins for TAMeb in order to provide authentication of users, control of access privileges, auditing, single sign-on, high availability, and logging.
* I have provided TIM integration and installation for centralized identity lifecycle management to automatically create, manage, and delete user access to various system resources such as files, servers, applications, and more based on job roles or request.
* Baseline comparison with competitor’s product lines in the SAN arena with SAN fabrics built up using HP Integrity RX8640, HP P4000 G2 SAN, and HP Left Hand iSCSI SAN P9500 platform with associated HP HyperVisor running HP-UX guest OSes.
* Performed over 30 “fresh” installations of Windows 2008 R2 and 40 RHEL 5.x server installations in an IBM Blade Chassis [4] with associated application & middleware installs.
* I have also performed data modeling & “dash boarding” using Rational Clear Case // Rose and Tivoli Enterprise Management Suite
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow
* I have vast experience with Computer Associates Products, which includes migrating volumes, event management and automation, job management, resource sharing and moving multi-image manager control data sets.
* CA ACF2 I have migrated volumes that contain ACF2 RULES, LOGONIDS, and INFOSTG volumes with other volumes.
* CA-ASTEX I have performed troubleshooting with performance information included on maintenance fixes required for ASTEX's compatibility with TDMF.
* CA-OPS/MVS I have performed event management and automation
* CA-OPS/MVS I have intercepted WTO/WTORs that are submitted by licensed programs, including TDMF, when the auto-ops feature is requested.
* CA-Scheduler I have performed job management for CA-Scheduler support the use of four-digit UCBs or UCBs above the 16MB line.
* CA-1 I have used tape management to migrate volumes that contain the CA-1 tape management catalog (TMC) and audit files and ensured that CA-1 is inactive. Upon completed migration, TMSINIT must be run.
* CA-HYPERBUF I have used VSAM buffer optimization to improve processing performance using CA-HYPERBUF on z/OS VSAM applications.
* CA-7 job management. I have used ICOM for a swap migration.
* CA-11 I have used job run history file (JEHF) for migrated data
* CA-MIM I have used resource sharing TDMF to reserve macro (TDMFRESV) to the volume where the Communications data set (COMMDS) is resident.

**Storage Volume Controller**

* Configuration guidelines and best practices for both hetro and homogenous Storage controllers.
* Live updates in IBM System Storage SAN Volume Controller.
* SAN topology and layout.
* SAN Volume Controller clustered file system layout and configuration.
* Back-end storage best practices and workflow execution.
* Storage pools and managed disks layout and configuration.
* Volumes: creation, expansion, quota management, and deletion.
* Remote copy services over Wide-Area-Network.
* Hosts visibility for AIX, UNIX, and Window Server Systems.
* Performance best practices.
* Performance metrics for SAN Volume Controller V6.2.
* Back-end storage performance considerations per disk type and geometry.
* IBM System Storage Easy Tier function integration [solid state to SATA to SAS].
* Management, monitoring, & troubleshooting of Easy Tier.

IBM – Identity and Access Management – Consolidated functionality for Systems Availability, Business Service Management, Orchestration, Provisioning, Security, Storage and Optimization. I have performed, administered, and configured identity and access management solutions to Safeguard mobile, cloud and social interactions, Prevent insider threat and identity fraud, Simplify identity silos, and cloud integrations to deliver identity and access assurance with the following Tivoli Product Suite:

* IBM Tivoli Access Manager
* IBM Tivoli Directory Integrator
* IBM Tivoli Directory Server
* IBM Tivoli Identity Manager
* IBM Tivoli Federated Identity Manager

**4/09 – 2/10 IBM Technical Expo Center**, McLean, VA

**Storage Engineer // Infrastructure Manager** (Manpower – moved onto a new opportunity)

* IBM HMC AIX pSeries 570 AIX LPAR server provisioning & administration on DS8000.
* LPAR creation & installation for AIX Power 7, AIX 5.3, RHEL 6+ [VIO, VIM, NIM, WPAR, LPAR, etc.].
* VMware // ESX Server provisioning for RHEL 5 & Windows 2003.
* VCenter Operations Manager, VMware vFabric Hyperic, and VMware vFabric AppInsight.
* VMware View 6.5 & 7.0 Installation & testing for single & multiple VMs.
* HA, vmotion, VSAN, SRM, & DRS optimization for vSphere 4.1. Create, analyze, and manage resource pools, virtual clusters, alert structures, security groups, permissions, vm templates, virtual networks.
* Cisco PIX, VPN, Nexus 7000 Administration & Administration.
* Ghost 2.5.x provisioning for TEC “Proof of Technology // Concepts”.
* IBM WebSphere DataPower XI50 appliance configuration & administration with HSM enabled
* I have designed 2 and 3-tier MS CA based PKI (Root included) systems on Windows 2K19 / 2K16 / 2K12 / 2K8 with “brokering communication” between Venafi and HSM6000 / 9000 systems / Hitachi PAM. I have executed & performed the Root Key signing ceremonies and secured Root Keys. I have defined and documented processes for Key signing ceremonies for Root and Intermediate/Issuing Cas. I have installed and operating Microsoft Windows Server 2K19 >> 2K8 with Microsoft Certificate Authority.
* Installation, Configuration, & Administration of Data power & Cloudburst Appliances.
* IBM Intel/AMD Blade Server setup, configuration, & Virtualization.
* Tivoli Storage Manager v.6.0.1 setup, updates, configuration, and administration.
* VMware VMotion & Site Recovery Manager configuration & continuity stress testing for DR // BUF site.
* Flash Copy [TSM] backup of all active, cloned, & copied VMs at prime & remote sites.
* VMware Lab Manager & Vkernel installation, configuration, and implementation.
* I have also provided installation & administration support for the entire suite of Tivoli products listed below:
* IBM Tivoli Access Manager for e-business (TAMeb).
* IBM Tivoli Access Manager for Operating Systems (TAMOS) - controls access to operating system resources.
* IBM Tivoli Access Manager for Enterprise Single Sign-On (TAMESSO).
* Tivoli Access Manager for e-business.
* I have installed, configured, and administered Tivoli Access Manager to provide policy-based security. I have tuned & provide macros, scripts, and module plug-ins for TAMeb in order to provide authentication of users, control of access privileges, auditing, single sign-on, high availability, and logging.
* I have used ServiceNow / REMEDY to enter, track, update, & close out trouble tickets. I also entered meta-data and “run books” to help with the AI functionality of ServiceNow
* I have provided TIM integration and installation for centralized identity lifecycle management to automatically create, manage, and delete user access to various system resources such as files, servers, applications, and more based on job roles or request.

**Storage Volume Controller**

* Configuration guidelines and best practices for both hetro and homogenous Storage controllers
* Live updates in IBM System Storage SAN Volume Controller
* SAN topology and layout
* SAN Volume Controller clustered file system layout and configuration
* Back-end storage best practices and workflow execution
* Storage pools and managed disks layout and configuration
* Volumes: creation, expansion, quota management, and deletion
* Remote copy services over Wide-Area-Network
* Hosts visability for AIX, UNIX, and Window Server Systems
* Performance best practices
* Performance metrics for SAN Volume Controller V6.2
* Back-end storage performance considerations per disk type and geometry
* IBM System Storage Easy Tier function integration [solid state to SATA to SAS]
* Management, monitoring, & troubleshooting of Easy Tier

IBM – Identity and Access Management -- Consolidated functionality for Systems Availability, Business Service Management, Orchestration, Provisioning, Security, Storage and Optimization. I have performed, administered, and configured identity and access management solutions to Safeguard mobile, cloud and social interactions, Prevent insider threat and identity fraud, Simplify identity silos, and cloud integrations to deliver identity and access assurance with the following Tivoli Product Suite:IBM Tivoli Access Manager, IBM Tivoli Directory Integrator, IBM Tivoli Directory Server, IBM Tivoli Identity Manager, and IBM Tivoli Federated Identity Manager

I have vast experience with Computer Associates Products, which includes migrating volumes, event management and automation, job management, resource sharing and moving multi-image manager control data sets.

CA ACF2 I have migrated volumes that contain ACF2 RULES, LOGONIDS, and INFOSTG volumes with other volumes.

CA-ASTEX I have performed troubleshooting with performance information included on maintenance fixes required for ASTEX's compatibility with TDMF.

CA-OPS/MVS I have performed event management and automation

CA-OPS/MVS I have intercepted WTO/WTORs that are submitted by licensed programs, including TDMF, when the auto-ops feature is requested.

CA-Scheduler I have performed job management for CA-Scheduler support the use of four-digit UCBs or UCBs above the 16MB line.

CA-1 I have used tape management to migrate volumes that contain the CA-1 tape management catalog (TMC) and audit files and ensured that CA-1 is inactive. Upon completed migration, TMSINIT must be run.

CA-HYPERBUF I have used VSAM buffer optimization to improve processing performance using CA-HYPERBUF on z/OS VSAM applications.

CA-7 job management. I have used ICOM for a swap migration.

CA-11 I have used job run history file (JEHF) for migrated data

CA-MIM I have used resource sharing TDMF to reserve macro (TDMFRESV) to the volume where the Communications data set (COMMDS) is resident.

**4/08 – 6/09 Storage & Security Administrator with** **LDAP & log server**

**Clients**:

* + - F.A.A. OTS Washington, DC (Part time) **(7/08 – 6/09)**
    - U. S. Department of Labor, OSHA (Contract), Washington, DC **(4/08 – 6/08)**
* Served as the primary Backup & Storage Administrator in NCR UNIX & Solaris 2.9 Server environment on a contract at OSHA.
* Implemented & Tested Splunk 3.2.4 log server solution to parse log files.
* OpenLDAP on a RHEL v.4.x host for FISMA Unix security compliance.
* Windows 2008 R2 64 bit VM stand ups & Exchange 2010 cluster set up, configuration, & tuning with BlackBerry integration & add-on.

**7/08 – 11/08 AT&T Technical Services**, Columbia, MD

**Senior VMWare & Storage Engineer** (Contract)

* EMC CX4 setup, installation, and configuration upon a DELL Intel/AMD based BLADE chassis.
* Installation, configuration, and integration of Storage Optimization tools.
* Pano Logic Virtual Desktop setup, installation, integration.
* VMWare // ESX 3.5.x.
* Virtual Security tools setup, installation, and configuration.
* Consolidation of 14 RSA divisions into a “single VM environment” duplicating such applications as Deltek Enterprise Project Management, and Deltek Cost point® [snapshot, test, clone, & re-test AND BUF // DR with VMotion].
* Tivoli Storage Manager v.6.0.1 setup, updates, configuration, and administration.
* VMware VMotion & Site Recovery Manager configuration & continuity stress testing for DR // BUF site.
* Flash Copy [TSM] backup of all active, cloned, & copied VMs at prime & remote sites.
* VMware Lab Manager & Vkernelinstallation, configuration, and implementation.

**6/08 – 7/08 EMC**

**Senior Storage Administrator** (RSA Security) (160-hour Contract), McLean, VA

* Senior Storage Engineer responsible for maintenance, repair, upgrade, and administration of 2 EMC iSCSI AX150i NAS that provide storage services for RSA and its over 30 offices, and it’s over 4500 users in a mixed Unix and Windows environment using CIFS and NFS structures using over 8 terabytes of disk storage.
* Monitoring user and organizational share quotas and adjusting storage space.
* Configuring, scheduling, and monitoring Snap Mirror [VTL] operations between filers. Adjusting disk space per user requests, adding, removing, and adjusting luns. Also responsible for backup and restoration of data using Veritas NetBackup and Backup Express.
* Scheduling and monitoring backups and restores. Maintaining 5 separate tape libraries and 2 virtual tape, disk storage devices. Backup and restorations of data spanning over 300 servers.
* ESX Server v.3.5.1 installation and configuration with over 18 RHEL 4 & 5 domains [300 P-2-Vs].I have executed “planning & acceptance procedures” for “Customer // Government Acceptance Testing” for the physical-to-virtual conversion which were validated and accepted by the customer upon review.
* Tivoli Storage Manager v.6.0.1 setup, updates, configuration, and administration.
* VMware VMotion & Site Recovery Manager configuration & continuity stress testing for DR // BUF site.
* Flash Copy [TSM] backup of all active, cloned, & copied VMs at prime & remote sites.
* VMware Lab Manager & Vkernel installation, configuration, and implementation.
* Implemented & Tested Splunk 3.1.7 log server solution to parse log files.
* Windows 2008 R2 64 bit VM stand ups & Exchange 2010 cluster set up, configuration, & tuning with BlackBerry integration & add-on.
* Eliassen Group, Wakefield, MA
* Lockheed-Martin, FTP Project, Herndon, VA
* 03/2005 – 08/2006
* Sun Solaris OS 9/10 Integration of COTS // GOTS products. Interaction with Technical // Engineering pre-sales for validation of product on APL, configuration & installation licenses and parameters. BlueCoat® SG8000 SG800 & Director integration & testing. App Scanner [WatchFire®] integration & testing. BEA Aqualogic / Weblogic v.9.1 & Apache web servers & Sun One LDAP, Policy, Identity Manager Server integration & testing. Sun Fire E15K, v490, & T2000 integration & testing. Tcl/Tk & Perl/Ruby scripting for Jumpstart, OpForce, & I3. OpForce / I3 integration, installation, configuration, & utilization. Local Patch Server 2.2 installation & configuration for server farm. Veritas HA V.4.1 upgrade, configuration, integration, & testing. Veritas OpForce™ / I3 V.4.x installation & unit testing. Sun N1 Grid services v.5.1.x installation & unit testing. Tripwire, AppScanner, Snort, & project COTSE // IDS tool set setup, configuration, & usage for Sun Solaris UNIX farm. Analyze security log data including server logs, operating system logs, intrusion detection system (IDS) events, and network traffic logs to identify security issues and security threats. Perform analysis, notification, and response on security issues and events. Collect, preserve, and analyze computer evidence in support of security investigations process. Understand business impact of security issues and recommend corrective or preventative actions. Metropolitan Area Network & Cisco VOiP configuration, tuning, & installation. Foglight with Oracle RAC/2 10G/R2 feature set, Automatic Grant Scripts, auto-discovery process, adaptive baselines, RAC monitor, & wait-state analysis. Implemented & Tested Splunk 2.2.4 log server solution to parse log files

**EDUCATION:**

**1991 Howard University, School of Engineering**

* B.S.E.E 1991

**CERTIFICATION:**

* **CompTIA Storage / SNIA (5/08)**
* **Brocade Certified Fabric Administrator (7/10)**
* **VMware Certified Professional 7 (1/2021)**
* **Isilon Storage and Management V3 [E05-001] (11/2021)**
* **NetApp Certified Professional Certified Data Administrator NSO-161**
* **Hitachi Vantara Qualified Professional - Storage Administration HQT-6740 Exam**
* **DELL EMC Associate – Information Storage and Management Version 4.0 (DCA-ISM)**
* **Enrolled in CompTIA 8140.1 level 1 IAT Security Certification boot camp**

<https://www.linkedin.com/in/deion-smith-45aa57b/>

**U. S. DEPARTMENT OF DEFENSE TOP SECRET SECURITY CLEARANCE with SCI & CI POLY and arcane FSP**