**Edward Beard**

Technical Skills

**NetApp Software:** CIFS, NFS, FC, iSCSI, Snapshot management, Snapmirror, FlexClone, FlexShare, Multistore (vFilers), Operations Manager, Protection Manager, Snap Restore, RAID-DP, SnapDrive, SnapManager for Oracle (SMO), SnapManager for Virtual Infrastructure (SMVI), SnapManager for Exchange (SME), CFO, Systems Manager, Fabric MetroCluster, Cluster Mode (C-Mode), OnCommand Insight, OnCommand Unified Manager, DSM, WFA (Workflow Automation), ONTAP Select/Deploy

**NetApp Hardware**: NetApp FAS2xxx, 3xxx, 6xxx, 8xxx Series. DS14MKx, DS42xx, DS22xx

**Switch Hardware**: Brocade & Cisco Fibre Channel Switches

**Operating Systems**: Clustered Data ONTAP 7.x,8.x,9.x, Windows Server 2008, 2012 and 2016, Solaris, Red Hat Enterprise Linux 6&7

**Software**: MS Office/Office 2010 Word, Excel, Power Point, Publisher, Visio, Outlook

**Server Consolidation and Administration**: VMware 3.5, Vsphere 5.x, 6.x

**Cloud Architecture:** Understanding of AWS (S3, Glacier), Azure

**Networking:** Subnets, Virtual Private Clouds, Gateways, IP Networking

**Monitorig Software:** Splunk, Nagios, DCIM (Sunbird), Solar Winds, AppDynamics

**Hyperconverged Infrastructure:** Simplivity (Dell/HP), VxRails, Nutanix

**Scripting**: Bash Sell, Batch, VB (Novice), Powershell

Experience

**Storage Subject Matter Expert/Monitoring,** Michelin September 2017 – Current

Greenville, SC

* Deployment of Simplivity HCI at Michelin Plants, nationwide. Included deployment of ONTAP Select for file shares.
* Be responsible for the design, support and maintenance of a large monitoring infrastructure
* Participate in 24x7 on call rotation
* Collaborate with Engineers, Operations and other teams to ensure application, network and system monitoring best practices

**Professional Services Consultant,** NetApp (via Strategic Business Systems) May 2015 – September 2017

Charlotte, NC

* Consult customer on storage infrastructure and operational solutions tailored to meet the customers’ needs
* Being a trusted advisor to the customer and account teams
* Project planning for tasks of moderate to high complexity
* Assumed a Technical lead for the onsite Engineers/Administrators throughout the engagement
* Implemented backup and restore, disaster recovery, storage consolidation, data protection, and storage performance, in accordance with the customer’s ITSM process
* Customers included NOAA, Lockheed Martin, Johns Hopkins University, NASA, State Department, VA and Verizon, Marine Corps

**Professional Services Engineer,** NetApp (via TechUSA) December 2010 – May 2015

Washington, DC

* Responsibilities include providing post-sales services and support for NetApp enterprise customers
* Understanding customer requirements, scope appropriate services, and deliver service projects
* Collaborating with the Professional Services team and to share best practices in order to assist NetApp customers through on-site support and consulting services.
* Interacting with the technical team within NetApp and at customer sites on assigned projects. At customer sites, working with system administrators and technical managers.
* Customers include Health & Human Services/Office of the Inspector General (HHS/OIG), Department of Transportation (DOT), (FAA), National Science Foundation (NSF), (NIAID), (NASA).

**Sr. Storage Engineer,** Accenture December 2009 – December 2010

Ashburn, VA

* Responsibilities include management of 28 NetApp Filers across 3 separate production environments/classifications
* Providing hands-on storage configuration and trouble-shooting skills
* Conducting Technical Evaluation Meetings with incoming entities to determine best storage solution/technologies
* Use technical understanding of how storage interfaces with servers, network, databases, and other datacenter components and tuning performance of storage from an end-to-end perspective.
* Building, testing, and deploying additional storage capabilities/services that integrates efficiently with the existing storage architecture.
* Identifying volumes, LUNs and shares with the highest latency based on real-time and trending analysis. This information is used to better understand how utilization can be addressed in the future
* Analyzing current SAN utilization and potential bottleneck and conducting SAN Fabric performance analysis from Filer-to-Switch-to-Host
* Develop “easy-to-read” documentation for Data Center technicians to allow them to perform tasks such as failed disk replacement, module replacement, etc.
* Ensuring that all Hosts using SAN attached storage (Windows, RedHat, ESX) are configured with software that includes Host Utilites Kit (HUK), MPIO, Qlogic SANsurfer, and Microsoft iSCSI initiators

**Storage Engineer,** Lockheed Martin April 2009 – December 2009

Herndon, VA

* Responsibilities included management of over 30 NetApp Filers across development and production environments
* Provisioning of NetApp storage LUNs using Data OnTAP, NFS and CIFS shares, Raw FC LUNs on Linux
* Implementing VMWARE/NetApp best practices to increase data utilization and performance
* Bash scripting to automate VMWARE and NetApp administration
* Performing upgrades of Data ONTAP and Firmware
* Allocating storage to bare metal machines, ESX servers, and virtual machines in NetApp FAS3050/3070 NAS and SAN environment
* Performing fibre channel soft zoning on Brocade Switches
* Documenting processes to better assist in knowledge transfer
* Configured Snap Manager for Oracle, Snap Drive for UNIX, and Host Utilities Kits in production environment.
* Installation and Configuration of Operations Manager to collect statistics and monitor performance of NetApp filers.

**Systems Administrator,** Lockheed Martin September 2008 – December 2009

Herndon, VA

* Responsibilities include setting up administrator and service accounts
* Develops and monitors policies and standards for allocation related to the use of computing resources.
* Maintaining system documentation, tuning system performance, installing system wide software and allocate mass storage space, coordination of installation and provide backup recovery.
* Maintaining smooth operation of multi-user computer systems, including coordination with network administrators
* Involved in the daily maintenance and implementation of numerous VMWare ESX virtual machines

Accomplished Projects

**Health & Human Services/Office of the Inspector General (HHS/OIG)** (3 Month Onsite)

* Responsibilities included migrating Exchange databases and transaction logs to LUNs on NetApp storage systems using Snap -Manager for Exchange (SME) and SnapDrive for Windows (SDW)
* Backing up Exchange databases and transaction logs from LUNs on storage systems, Verifying the backed-up Exchange databases and transaction logs, Managing backup sets, Archiving backup sets, and Restoring Exchange databases and transaction logs from previously created backup sets.
* Setup and Configuration of Operations Manager/Protection Manager
* Configuring SME/SDW integration with Operations Manager/Protection Manager
* Setup and configuration 3 FAS2020 clusters regional sites in Philadelphia, Atlanta, and Chicago

**Federal Aviation Administration (FAA)**

* Responsibilities included setup and configuration of 2040 cluster with two DS4243 shelves attached
* Verification and testing of installed protocols (CIFS, iSCSI, NFS, FCP) and cluster.

**National Science Foundation (NSF)**

* Responsibilities included performing Head Swap, from FAS2050 to FAS3240
* Verification of data integrity after swap

**National Aeronautics and Space Administration (NASA)**

* + Responsibilities included hot-adding 2 DS14MK-2 shelves to existing configuration

**National Institute of Allergy and Infectious Diseases (NIAID)** (2 year onsite)

* Responsibilities include Proof of Concept testing for breaking an HA Cluster and moving to a Fabric MetroCluster without data loss
* Developing implementation/test plans for proof of concept testing and production
* Installation and setup of FAS6240 Cluster with DS4243 shelves attached
* Installing, configuring, and managing a dual stretch MetroCluster which spanned from Bethesda, MD to Ashburn, VA
* Implementing Traffic Isolation (TI) on the dual MetroCluster
* Performing Head Swap, from FAS3020 to 3250
* Resolving any issues related to any known BURTs
* Proof of Concept installation for OnCommand Insight
* Shelf and Disk Firmware upgrades

**Department of Homeland Security - Immigration & Customs Enforcement (DHS-ICE)**

* Resolving any issues related to any known BURTs
* Proof of Concept installation for OnCommand Insight
* Installation of SnapDrive & SMSQL on Windows Server 2008 MS Clusters
* Hot addition of DS4243

**Department of Homeland Security - Immigration & Customs Enforcement (DHS-USCIS)**

* Assisted/Educated Customer on how to leverage OnCommand Insight to monitor, detect risk, and audit for compliance is heterogeneous storage environment.
* Located and recovered orphaned or underutilized storage using Oncommand Insight
* Upgraded Oncommand Insight and DataWarehouse to version 7.0.2 from 6.4
* Maintained custom reports from DataWareshouse requested by Management
* Monitored and tracked configuration changes of storage network assets

Education

North Carolina A&T State University

Greensboro, NC

**M.S., Industrial Technology**, May 2008

**B.S., Electronics/Computer Information Technology,** December 2006