

Nicholas Von Wolff

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System Administrator

A system administrator with experience in both end user and system support. Experienced in designing solutions and migrating between technologies. Skilled in learning and implementing new operating systems, scripting languages, automation technologies, and software.

Technical Skills

Software: PowerShell | Ansible | Puppet | Extreme Cloud Administration Toolkit (xCAT) | Bash/Bourne Shell | IBM General Parallel File System (GPFS) | Slurm | HTCondor | Environment Modules TCL/LMOD | Microsoft Deployment Toolkit, Windows Deployment Server, Print Server, File Server, DFS Namespaces & Replication, Server Failover Clustering, System Center Configuration Manager, Active Directory & Group Policy, & Word/Excel/PowerPoint | Kace Systems Deployment & Systems Management | Visual Basic | Kubernetes

OS: Linux (RedHat/CentOS/Ubuntu) | Microsoft Windows (7 - 10), Hyper-V Server (2012-2019), & Server (2008-2019)

Areas of Expertise: Server/Workstation Administration & Automation | Application Packaging & Automation | User Support | IT Solutions, Implementations, & Migrations

Education

Bachelor of Information & Communication Technologies, New Mexico State University (2019)

Experience

New Mexico State University

System Developer Associate

2019-Present

Responsible for the implementation, maintenance, and automation of New Mexico State University's high performance (HPC) and high throughput (HTC) computing systems.

- Automate the installation and maintenance of a Slurm OpenHPC cluster.
- Implement a Lenovo DSS-G storage cluster powered by IBM's General Parallel File System (GPFS).
- Architect and maintain an InfiniBand network fabric.
- Package scientific software, to be used with the Lmod module environment system.
- Monitor and optimize HPC/HTC performance.
- Implement Open Science Grid integration into Slurm and HTCondor clusters.
- Provide user support and outreach for researchers using HPC/HTC systems.
- Construct a SlateCI cluster powered by Kubernetes.

Technology Support Technician

2018-2019

Responsible for maintaining the College of Business computers/servers and for providing IT related support. This is a promotion to include additional responsibilities and roles. Significant projects include:

- Implement Microsoft System Center Configuration Manager (SCCM).
 - Decommission Kace System Management and migrate computer inventory to SCCM
 - Decommission Microsoft Deployment Toolkit and reimplement operating system deployment workflows in SCCM.
 - Package and automate the installation of applications.
 - Configure software updates including Windows 10 updates and major version releases.
 - Design policy and deployment for System Center Endpoint Protection.
- Design and implement the migration of workstations/servers from one Active Directory domain to another domain in the same forest. This includes the migration of user accounts and their associated data.

Computer Operator Associate

2015-2018

Responsible for maintaining the College of Business computers/servers and for providing IT related support. This is a promotion to include additional responsibilities and roles. Significant projects included:

- Designed and Implemented the migration of server infrastructure from a combination of physical and virtual servers (XenServer Hosts) to a Microsoft Hyper-V environment with minimal downtime. This included designing a combination of standalone and clustered Hyper-V servers to act as a unified hypervisor environment.
 - Implemented Microsoft Storage Spaces to provide shared cluster storage.
 - Implemented Altaro Virtual Machine Backup and Replication to provide backups of hosted virtual machines.
- Planned and Implemented the Microsoft Deployment Toolkit (MDT) / Windows Deployment Server (WDS) for operating system deployment. This project entailed decommissioning Kace Systems Administration and migrating current workflows to MDT/WDS.
 - Automate the build, capture, and deployment of workstation images that serve as the prime images for hundreds of machines for the college.
- Upgraded existing Linux servers running CentOS 5 and 6 to new virtual machines running CentOS 7. This consisted of web, database, and file servers.

Computer Lab Technician

2011-2015

Responsible for maintaining the College of Business computers/servers and for providing IT related support. Primary responsibilities included:

- Provide support to users over the phone, in person, and through email. Tools such as KACE Systems Management were leveraged for computer inventory, monitoring, and ticketing.
- Build and maintain Microsoft Windows images for use in classrooms, labs, and staff/faculty offices. Tools such as Kace Systems Administration were used to capture and deploy these images.
- Assist faculty in managing Linux hosted websites using Samba, SSH, and SFTP. This included the administration of those services on CentOS Linux.
- Assist staff in managing mailman mailing lists hosted on CentOS Linux.
- Build and maintain file servers based on Microsoft Server 2008/2012 R2.
- Build and maintain print servers based on Microsoft Server 2008/2012 R2.
- Assist in the configuration and management of Microsoft Active Directory and Group Policy.
 - Design and maintain Group Policy for the configuration of labs, classrooms, offices, and servers. This included the configuration and automation of Microsoft Windows updates.

References

References available upon request.