William R. Schenk

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Systems Engineer

A highly competent and organized IT professional with experience in infrastructure design, deployment, installation & administration.

Over 10 years of experience in system administration and design. Proven history of successfully leading engineering, configuration, installation, administration, troubleshooting, maintenance, upgrade, and migration activities. Results-driven, focused, and motivated with a history of delivering high performance technology solutions designed to enhance system functionality and end-user productivity.

Professional Experience

Amobee, Baltimore MD

Systems Engineer | 2019 - Present

Technical Lead for Amobee IT team for all core services and infrastructure. In charge of deployment, configuration, and management of a mixed Windows and Linux environment in AWS and on-premise. Design, implement and project manage global infrastructure utilized by Amobee users.

- Consolidation, migration, and retirement of over 250 Windows and Linux and services to organize and streamline the IT services provided for users. This saved the company significant costs in management time and AWS costs.
- Networking lead for Amobee office and AWS networking infrastructure utilizing Cisco Meraki hardware and core AWS networking technologies.
- Core Process and workflow improvements including centralized documentation, password management, backup services, and implementation of core policies and procedures for IT team.
- Design and implementation of infrastructure changes and improvements including migration of services from on-premise VMware ESXi infrastructure to AWS, server retirements, and service upgrades across a global infrastructure.
- Deployment and configuration of Atlassian services including Jira datacenter and Confluence server. Deployed highly-available Jira cluster providing better experience for users and clients.
- Monitor and maintain systems and services using cloud and on-premise monitoring tools, backup services and configuration management tools.
- Team lead and project manager for core IT projects that improved the infrastructure and security posture of Amobee services.
- Provide expertise and mentorship to IT team to complete infrastructure projects and improve technical skillsets.

National Socio-Environmental Synthesis Center (SESYNC) – University of Maryland, Annapolis, MD

Assistant Director for Cyberinfrastructure | 2017 - 2019

Head of IT responsible for all IT systems and services hosted and deployed at SESYNC including high performance computing resources, administrative and production services, and networking infrastructure. Worked with SESYNC Data Science team to provide cyberinfrastructure support and consulting services to researchers and staff.

- Managed IT employees to execute cyberinfrastructure projects and tasks. Spearheaded staff to deploy systems and services and provided senior expertise when needed.
- Coordinated with UMD departments on campus to provide 10Gb networking directly from campus via Maryland Research network. Worked with UMD staff to host off-premise systems for higher availability and off-site backup services.
- Drafted long-term IT services for SESYNC including timeline for system upgrades and system replacements, deployment of new services, and retirement of old equipment.
- Led procurement efforts with a variety of vendors to quote and purchase software, services and infrastructure to support SESYNC operations.
- Lifecycle Management of Linux infrastructure using open-source tools such as Puppet and Foreman. Migrated existing services under new management infrastructure.
- Designed and implemented new Storage Spaces Direct hyperconverged virtualization infrastructure for use by SESYNC researchers for Windows and Linux services.
- Deployed new VMware infrastructure and oversaw migration of services to new infrastructure.

National Socio-Environmental Synthesis Center (SESYNC) – University of Maryland, Annapolis, MD

Senior Systems Administrator | 2016 – 2017

Systems Administrator | 2012 - 2016

Responsible for design, deployment, and management of a mixed cyberinfrastructure environment to support core business services and research computing including virtualization technologies, networking, windows, and Linux services,. Worked with SESYNC employees and researchers to provide a variety of computing services to support research activities by deploying an agile and flexible infrastructure that can adapt to the needs of the users.

- Designed and deployed Microsoft Hyper-V hypervisor based virtualized computing clusters that resulted in the expansion of the organization's research computing capacity.
- Produced and implemented Windows Storage Spaces for file storage and SOFS deployment for SMB 4.0 storage resulting in improved and redundant Hyper-V virtual machine storage.
- Built out core Windows infrastructure including Systems Center services, WSUS/MDT, and core file and print services.
- Deployed VMware ESXi and vCenter infrastructure on iSCSI storage to host core Linux and Windows services.
- Leveraged scripting and configuration technologies such as PowerShell, Bash, and Puppet to automate tasks to improve operational efficiency.
- Managed and maintained the network infrastructure including: VLANs, routing, ACLs, and 10Gb networking.
- Responsible for developing an Active Directory to support over 1000 researchers in a mixed Linux/Windows environment
- Operated and administered Ubuntu Linux infrastructure via Foreman and Puppet. Tasks included writing puppet modules and profiles for deployment of various services, installation of new services and migration of infrastructure to new management infrastructure.

University of Maryland Institute for Advanced Computer Studies (UMIACS), College Park, MD

Systems Staff | 2011 – 2012

Student Systems Staff | 2009 – 2011

Collaborated with UMIACS systems staff to deploy, manage, and administer Windows and Linux services to support center labs and researchers. Worked as Help Desk operator during assigned shifts to oversee student staff and provide end user support.

Education

Bachelor of Science in Computer Networks and Security, 2011
University of Maryland University College, Adelphi, MD

Professional Development:

- AWS Cloud Practitioner – April 2020
- Puppet Fundamentals - August 2016
- Personal Home Lab - Improved IT knowledge

Technical Proficiencies:

Operating Systems:	Windows 7/8/10, Server 2012 R2/2016/2019, Ubuntu LTS, RHEL/CentOS/Amazon Linux/2
Scripting / Coding:	PowerShell, Bash, Git, Ruby, R, Python
Configuration Management:	SCCM, Systems Center VMM, WSUS, Foreman, Puppet, Chef, WorkspaceOne, Cloud Custodian
Systems / Services:	AD/GPO, WDS, Systems Center, Exchange 2010, Lync 2010/2013, Skype for Business Server 2015, Office 365, iSCSI, Microsoft SOFS, Microsoft Storage Spaces/Direct. Veeam, Druva, CloudRanger, MS SQL, MySQL, PostgreSQL, Apache/PHP, NGINX, GlusterFS, Jupyterhub/Jupyterlab, RStudio Server, Redmine, Nextcloud, slurm, Jira, Confluence, Google Workspace, Crowdstrike. PRTG
Virtualization/Containerization:	VMWare ESXi, Microsoft Hyper-V, Docker/Docker Swarm
Cloud:	AWS EC2, RDS, IAM, S3, Cloudwatch, VPC
Networking:	VLAN/802.1Q, DNS, DHCP, TCP/IP, Cloudflare Argo
Hardware:	Dell PowerEdge/PowerConnect/PowerVault, Supermicro, HP, Pica8, Kemp, Juniper VPN, pfSense, Cisco Meraki, Ubiquiti