

Jeffrey A. VanSickle

<https://www.linkedin.com/in/jeffreyvansickle> ▪ <https://www.github.com/vsx-gh>

Core Skills

- **Networking:** Router and switch installation and configuration (Cisco IOS), traffic analysis (tcpdump/Wireshark), SSH, DNS (Windows, BIND/named), NAT, DHCP, security (iptables, SELinux); load balancing with HAProxy; highly proficient Barracuda Spam & Virus Firewall, Web Filter administrator
- **Virtualization:** VMware vSphere, Hyper-V, VMware Workstation/Player/Fusion, Parallels, VirtualBox, Hashicorp Vagrant
- **Storage & Backup:** Dell EqualLogic; NetApp SAN (NFS); Linux NFS, LVM, Samba, rsync, mdadm software RAID; AWS S3, EBS, EFS, Glacier
- **Administration:** User management (Active Directory, OpenLDAP, Group Policy), e-mail (MS Exchange, Postfix), system maintenance and automation (bash and PowerShell scripting, cron)
- **Automation:** Ansible, Terraform, Packer
- **Patching:** Satellite/Spacewalk, Windows Server Update Services (WSUS), Dell OpenManage
- **Programming:** C++, Python, HTML, PostgreSQL, MySQL, GitHub, GitLab Server
- **Operating Systems:** Red Hat Enterprise Server (RHEL), Ubuntu Server/Desktop, CentOS Server/Desktop, Windows, Windows Server, macOS
- **Imaging:** Kickstart, Windows Deployment Services (WDS), Microsoft Deployment Toolkit (MDT)
- **Security:** LastPass Enterprise, Symantec Endpoint Security, some Cisco ASA and VPN management, OpenVPN, PGP/GnuPG, disk encryption with LUKS, FileVault, BitLocker, TrueCrypt (and variants)
- **Cloud:** Amazon Web Services - S3, Lambda, EC2, RDS, IAM, Elasticsearch, API Gateway

Education and Certifications

CERTIFICATE, PYTHON FOR EVERYBODY SPECIALIZATION <i>Coursera and University of Michigan</i>	May 2016
CITRIX CERTIFIED ADMINISTRATOR (CCA) <i>Citrix XenApp 6.5 Administration</i>	September 2014
ASSOCIATE OF SCIENCE, Computer Networking (Cisco) <i>Washtenaw Community College, Ann Arbor, MI</i>	December 2012 GPA: 3.6/4.0; Dean's High Honor Roll
ADVANCED CERTIFICATE, C++ Programming <i>Washtenaw Community College, Ann Arbor, MI</i>	May 2011
MASTER OF ARTS, German Studies <i>Michigan State University, East Lansing, MI</i>	August 2009 GPA: 3.8/4.0
BACHELOR OF ARTS, Magna cum Laude, Modern Languages (German) <i>Kansas State University, Manhattan, KS</i>	May 2007 GPA: 3.9/4.0; Phi Beta Kappa

Select Projects and Training

- **Work:** Built suite of PowerShell scripts to automate building Active Directory domains (Epic); built Terraform modules to create complete network and compute deployment on AWS (WRDS); deployed and administered virtualized Git version control server on CentOS 6.x, maintained production code repository (UMCU)
- **Home:** Temperature collection using Python on Raspberry Pi, data on AWS RDS PostgreSQL

instance, and plotting/analysis with Plotly (see **PfE Capstone** repository in my GitHub)

- **Investigating:** Data science with Python; config management, deployment with Ansible on AWS

Employment and Experience

Systems Programmer

November 2016 – Present

Wharton Research Data Services (WRDS), University of Pennsylvania, Philadelphia, PA

- Head up maintenance of 80+ Red Hat Enterprise Linux (RHEL) servers on Dell hardware: Firmware and iDRAC with Dell OpenManage, OS with Satellite and Ansible
- Administer HAProxy load balancing clusters for production Web and SAS application services across two datacenters
- Manage in-house vSphere 6.x cluster as well as VMs hosted with school's central IT groups
- Assist with NetApp administration: aggregates, volume creation/expansion, NFS export policies
- Design and implement AWS infrastructure: VPCs, compute instances, RDS (PostgreSQL), IAM scheme; Terraform and Packer infrastructure-as-code workflows, including custom AMI builds for EC2
- Automate deployment and state configuration with Ansible on RHEL 6.x and 7.x: Draft playbooks and roles for server imaging from bare metal to deployment in production
- Design and implement disaster recovery solution for ~500 TB of production data using AWS S3, Lambda, and server-side system code (bash, Python)
- Create Python code and processes to push system logging to central MS-SQL databases
- Deploy RStudio Server Pro load-balanced cluster in AWS and on-prem
- Serve as department point person for security functions: SSL certificates, IDS (CrowdStrike)
- Implement SAS Visual Analytics platform, including automation of metadata and user management with Python
- Continuing full job duties remotely after relocation to Missouri in May 2018

IT Systems Administrator

February 2016 – October 2016

Center for Dairy Research, UW-Madison, Madison, WI

- Single-person IT support for center of 45-50 users
- Managed all aspects of VMware vSphere 5.5 environment: Physical servers, 25-30 VMs, Dell EqualLogic SAN; templating, snapshots, provisioning
- Performed daily and ongoing maintenance of 80+ Windows and OS X endpoints: Patching, software deployment, physical maintenance, imaging, upgrades/refreshes using IBM BigFix, Ninite Pro, Symantec Endpoint Protection, Microsoft Deployment Toolkit
- Leveraged Active Directory and Group Policy deployment to manage users, computers, and configuration policies
- Controlled fully virtual Windows and Linux server infrastructure: DHCP, DNS, MSSQL, MySQL, file and print services, IIS, Apache, Lotus Domino, VPN, internal certificate authority
- Supervised and advised student IT staff in providing top-notch helpdesk support
- Continued full job duties remotely after relocation to Pennsylvania to assist with search for replacement (3 months)

IS Technical Services Senior

August 2015 – February 2016

DoIT Departmental Support-Endpoint Management, UW-Madison, Madison, WI

- Managed OS, software deployment, and security applications for ~6000 endpoints across campus using IBM BigFix
 - Administered new and existing Managed Security Layer (MSL) contracts using Symantec Endpoint Security and WSUS
 - Maintained Active Directory and Group Policy for contract departments; developed new policies and managed customers' directory objects
 - Designed and maintained internal shop/lab Hyper-V cluster
 - Scripted solutions for imaging and virtualization offerings using PowerShell and Python
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Systems Engineer

October 2014 – August 2015

Epic Hosting, LLC, Verona, WI

- Managed Active Directory design, daily administration, and automation; trusts, batch user configuration; directory migration and replication; Group Policy creation, edits, and migration between domains
- Developed and applied auditing and monitoring solutions leveraging vRealize Operations Management (vROps) and vRealize Configuration Manager (vCM)
- Managed vSphere infrastructure: physical hosts, virtual switches, VM creation and maintenance, vMotion, Storage vMotion
- Automated administrative tasks using PowerShell and PowerCLI scripting
- Stood up and maintained Windows internal certificate authority
- Deployed and maintained DNS and DHCP deployments for management and customer domains

Client Systems Technical Services

July 2014 – October 2014

Epic Systems Corporation, Verona, WI

- Guided implementing customers to set up and troubleshoot Epic application deployment with Citrix XenApp
- Assisted in Citrix XenApp and Microsoft RDS virtual farm maintenance for Quality Assurance

Programmer/Analyst

April 2012 – June 2014

University of Michigan Credit Union (UMCU), Ann Arbor, MI

- Authored code to generate reports and automate product synthesis in PowerOn database language
- Identified, created, and implemented network and programming solutions to credit union initiatives
- Wrote, reviewed, and updated procedure and product documentation
- Streamlined and automated daily maintenance operations with shell scripting (bash, PowerShell) and OpCon job scheduler
- Managed VMware virtualization environment by maintaining storage and creating/caring for VMs
- Generated policies, rules, and regular expressions to optimize e-mail filtering, Web filtering, and e-mail archiving (Barracuda, MS Exchange)
- Resolved network and server configuration problems in mixed UNIX and Windows domain
- Educated staff on efficient use of computing resources and responded to support calls

Technical Support Engineer

September 2011 – April 2012

Barracuda Networks, Ann Arbor, MI

- Corrected hardware, software, configuration, and networking issues with physical, virtual, and cloud-based Barracuda appliances for remote customers in North/South America, Europe, and Asia
 - Wrote management scripts and knowledgebase solutions to improve product support
 - Utilized regular expression content filters to maximize spam prevention on customer appliances
 - Analyzed packet captures to diagnose networking issues between customer servers and Barracuda appliances
 - Focus areas: DNS (MX, SPF, PTR records), SMTP, TLS/SSL administration, filesystem management, MS Exchange integration, LDAP/Active Directory, configuration and mail archive backups
 - Products supported: Barracuda Spam & Virus Firewall, Message Archiver, IM Firewall, Email Security Service/Cloud Protection Layer
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