John Stephen

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Certifications: Microsoft Certifications AZ104& AZ900, VMware Certified Professional – Data Center Virtualization 2019

Professional Experience

Squire   July 2021 – September 2025

Senior DevOps Engineer(Remote)

- AWS:
    - Multi-Amazon AWS Account management.
    - IAM Identity Center (AWS SSO), IAM Roles with AWS Organizations.
    - AWS Resource Access Manager(RAM), shared network from one account that has env specific networking(dev/qa/staging/prod)
- Terraform:
    - Manage Infrastructure-as-code(IaC) with Terraform.
    - Automated Squire infra with Terraform in AWS to support our application. AWS Elastic Beanstalk, Elastic Container Services (ECS), RDS(Postgres), Elasticache(Redis), ECR, Secrets Manager, Cloudfront, S3, Kafka, Systems Manager Parameter Store(SSM), DNS(Cloudflare & Route53), Certificates(Cloudflare & AWS Private CA), KMS, Lambda, Amazon Linux 2 w/ Docker, Ubuntu.
    - Automated AWS AMI Pipeline management: Deployed AWS Codebuild Pipeline with Terraform that runs monthly to build a custom AWS ami using Hashicorp Packer. Image build uses bash scripts to install our software and Linux kernel updates.
    - Engineered AWS ECS deployments with Terraform and built new Harness pipelines to deploy to these clusters.
    - Cost Management: refactored old infrastructure with cheaper services. Right sizing Elastic Beanstalk, RDS, and Redis instance sizes to load appropriate sizing. This saved the company ~$700k per year.
    - Engineered a refactoring of our Terraform code to transition product to privately accessed resources in AWS through VPN.
    - Engineered a multi-container docker deployment via Terraform on AWS Elastic Beanstalk to support a new product initiative.
- Containers:
    - Application containerization with Dockerfile images that are uploaded to AWS ECR.
    - Docker Images are deployed to container services such as AWS Elastic Beanstalk or ECS (both fargate/ec2)
- Jenkins:
    - User account access and troubleshooting issues with Jenkins server/agents and jobs
    - Jobs administration (Jenkinsfile/Dockerfile/elasticbeanstalk config) with trunk based & traditional code repos.
- Harness CICD:
    - Yaml based Pipeline creation and Jenkins pipeline migrations.
    - Platform administration
    - DR work to replicate AWS SSM Parameters with python based AWS Lambda functions and Event Bridge Schedulers to run on a daily schedule.
- Data Team Assistance: configuration of Amazon Sagemaker AI, cross account Snowflake S3 access and AWS SNS.
- Monitoring: AWS Cloudwatch, Datadog, Cloudtrail

- Bash/Shell scripting
- GitHub Repo management.
- Atlassian Suite of tools: Bitbucket, Confluence, Jira.
- Datadog monitoring.
- CLI Tools: AWS CLI, Git, Bash, Terraform.
- AI tools such as Chatgpt and Cursor for assistance with Terraform and Harness code review and error troubleshooting.

Ansys   August 2015 – July 2021

IT Devops Engineer(Remote) - December 2019 to July 2021

- Multiple Subscription Microsoft Azure environment in regions across the globe.
- Microsoft Windows Virtual Desktop in Azure deployment, configuration, support in four different regions globally.
- Powershell scripting with versioning through Azure Devops TFS and Git with Azure CLI scripting for resource config changes.
- Azure Role-based access control configuration through built-in and custom roles.
- Transient VM deployments: Windows Desktop/Server, Linux, appliances.
- Windows/Redhat/Centos/Ubuntu VM deployments though Marketplace, Ansible and Azure Devops CI/CD.
- Blob storage configuration.
- Virtual Networking (Peering, NSG, Route Table, Public IP, Point-2-Site/Site-to-Site VPN)
- Load Balancers and Application Gateways.
- Microsoft AD, DNS, LDAP, GPO troubleshooting.

Virtualization Administrator II(on-site) – April 2019 to December 2019

- ESX host setup and configuration on Dell VxFlex R740xd ReadyNodes with clusters consisting of over 1,000 vms globally.
- New vCenter build outs and ESX upgrades to 6.5 from 6.0.
- Improved vCenter permissions with active directory integration to streamline on/offboarding and ease of management.
- ESX host configuration. Virtual machine system builds with Windows and Windows Server.
- VxFlex OS Standalone and Automated Management Services (AMS) deployments.
- Dell server monitoring and firmware upgrades via Dell OpenManage Enterprise.
- EMC Secure Remote Services Appliance deployments and node monitoring configuration.
- Cisco UCS administration. Cisco Fabric Interconnect and M2-M5 Blade configurations. This housed 50+ financial vms.
- International Traffic in Arms Regulations (ITAR) administration

Storage Administrator I(on-site) – January 2018 to April 2019

- Deploy Dell EMC hyperconverged VxFLEX OS (Formerly ScaleIO) clusters from bare metal Dell PowerEdge servers to clusters within VMware vSphere using VxFlex vSphere plugin.
- Deploy new VxFlex clusters with Dell EMC Automated Management Services (AMS) software to hyperconverged Dell R740xd ReadyNodes.
- Deployment of a new greenfield Cisco UCS for new build out of a new Oracle VM Manager environment.

Datacenter Administrator I(on-site) – August 2015 to January 2018

Education

Bachelor of Arts in Business   Muskingum University, New Concord, OH

Associate of Applied Science in Information Technology   Belmont College, St Clairsville, OH