Hans Knecht

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# Experience

## Senior DevOps Engineer - Capital One Financial

### 2018 - Present

* Managed CICD Pipelines for ~75 applications built in Node and Java
* Architected and Supported ECS and EKS infrastructure at scale in AWS using Terraform
* Shortened the feedback loop between Security, Infrastructure, Business Teams, and the Developers to allow for faster and more Agile development.
* Transformed infrastructure from manual creation to IaaC to allow for immutable and automated deployments.
* Cut AWS costs ~90% for the team
* Created effective and manageable alerting and monitoring for the team.
* Published multiple technical articles on Capital One Tech (<https://medium.com/capital-one-tech>)

## DOS - AWS/DevOps Consultant

### 2018 - Present

* Architected and Automated backup and DR solutions covering EFS, EC2, and RDS in AWS
* Managed Client expectations
* Provided on call support

## DevOps/Network Administrator - Kinsale Insurance

### 2017 – 2018

Team lead on a DevOps/Network team supporting Developers and Operations.

* Introduced and developed a Centralized Logging system using the ELK stack
* Developed CICD Pipeline, SOX Compliant, using Bamboo and Jenkins, to deliver and updated applications automatically.
* Introduced Automated Security to allow for faster feedback and increase security
* Using Ansible, Python, and OpenNebula delivered an auditable IAAC and IAAS system.
* Developing scalable container solutions for tomcat applications.
* Migrated code base from SVN to Gitlab to allow for faster and more integrated pipelines

## Systems and Security Engineer at Digital Harbor Inc.

### 2015 – 2017

Team Lead of 3 for Systems and Security

* Built and architected HA Server clusters using Proxmox VE and migrated from baremetal to a virtualized environment
* Built and Maintained XEN, VMWare, and RHEL Hypervisors for testing and lab environments
* Built and architected a backup and restore system, with SLAs, tiers and ensured 4 9’s of uptime
* Built and maintained cross site AD infrastructure
* Lead migration from on-premises to a Hybrid AWS-On-Premises environment
* Used Ansible to automated deployment of applications and IAAC
* Built and Coded Status Pages and Dashboards for services, outages, and workflows using.
* Configured DLP for HIPAA, PII, and PIA on firewalls, endpoints and exchange servers.
* Configured and Managed Zabbix, Trend Micro, ShadowProtect, CarbonBlack, Jira, Tomcat, and Confluence

## Level 3 Support at CSS Corp

### 2014 - 2015

* Provided general troubleshooting and helpdesk support
* Provided AD and Exchange Administration and support
* Provided Network Monitoring and troubleshooting
* Created automation PowerShell scripts for the offboarding process and simple databases for

reporting tools

* Managed Linux Server uptime and windows server uptime

## Small Business Systems Administrator

### 2013 – 2014

* Supported Remote employees on troubleshooting hardware and software
* Managed internal network, firewalls, and PCs
* Managed shared storage

# Skills

* CICD (Jenkins, Travis, CircleCI, Drone, Bamboo, Gitlab)
* VCS (SVN, Git)
* Configuration Management (Ansible, Chef, Puppet)
* IaaC (Terraform and Cloudformation)
* Container and VM Orchestration (Docker, KVM, ECS, EKS, Rancher, Proxmox, OpenNebula)
* Programming Languages (NodeJS, Python)
* Public Cloud (AWS and Azure)
* Capacity Planning and Cloud Management
* Microsoft Administration (O365, Active Directory)

# Language

English (Fluent/Native)

Swedish (Fluent/Native)

# Education

### Brigham Young University

Computer and Information Systems Security/Information Assurance, 2014 – 2017

# Certifications

AWS - Solutions Architect - Associate

AWS - SysOps Administrator - Associate