

David Steinberg

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Current Location- Shelton, Connecticut

SUMMARY

- I have 15+ Years of experience in IT industry which include 10+ years of experience as DevOps/ Agile operations, with high level proficiency in Unix/ Linux Administrator, Software Configuration Management/ Release Management Specialist and Cloud Management.
- Having experience Environment management with Windows, Linux, and Unix operating systems.
- Extensively worked with Version Control Systems GIT.
- In depth experience on SaaS, PaaS and IaaS concepts of cloud computing architecture and Implementation using Azure, AWS, OpenStack and Pivotal Cloud Foundry (PCF).
- Hands on experience with administration, maintenance and operations of different AWS Cloud resources and management services like Elastic Beanstalk, S3, RDS, Lambda, SQS, Cloud Front, SNS, Cloud Watch and Cloud formation templates.
- Proposed and implemented branching strategies.
- Proficient in Python, Shell Scripting, SQL, build utilities like open make, ANT and Cruise Control.
- Hands on experience on Identity Governance, Cloud SOC/SIEM/CSPM, Key Management & Encryption, Public, Private and Hybrid cloud solutions.
- Experience writing Shell scripts to automate the deployments.
- Hands on experience in setting up the Chef Work station, Chef Repo as well as Chef Nodes from the scratch
- Experience in setting up of Docker and creating new images and getting images from Docker Hub, worked on Docker images and containers for deploying applications.
- Experience with Puppet, Ansible, Chef and saltstack as System Configuration Tool.
- Experience in assigning the azure services on locations specific to integrate with web-apps and key-vault
- Expertise in using Tomcat and Nginx web servers for deployments
- Experience with Oracle and MY SQL Server DB Tasks (DDL/DML Executions).
- Knowledge of SDLC process and enforcer of best practices
- Hands on experience in building custom dashboards and solutions for searching, monitoring, analyzing data using Splunk.
- Expertise in Scrum Methodologies such as Agile and Waterfall methods, software development lifecycle management, continuous integration, build and release management and managed environments.
- Experience working with Amazon Cloud Administration which includes services like EC2, S3, EBS, VPC, ELB, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups by focusing on high-availability, fault tolerance.

Skill Set:

Operating Systems	Windows, Linux, UNIX, RedHat, CentOS, Ubuntu, Solaris
Containerization Tool	Kubernetes, Docker, OpenShift
Configuration & Infrastructure Management Tools	Terraform, Ansible, Chef, Puppet, Maven, ANT
Databases	Oracle DB, My SQL, SQL Server, NoSQL
Application Servers	Tomcat, Nginx
CICD /Version Tools	Jenkins, Gitlab, GIT, SVN
Cloud formation	AWS, Azure, GCP
Monitoring and Logging Tools	Splunk , Nagios, CloudWatch, Prometheus, Grafana
Testing and ticketing Tool	SonarQube, JIRA, Remedy
Scripting Language	Python, Shell

Work Experience: -

Fidelity Investments, Remote
Cloud/DevOps Architect

Oct 2022 – Present

Responsibilities:

- Configure AWS VPC with public and private subnets, configured Routing tables, Internet gateway, ACL's, Security groups.
- Involved in design, implementation and modifying the Python code.

- Maintained and administered GIT source code repository and GitHub Enterprise.
- Performing Continuous Integrated delivery (CI and CD process) using Jenkins.
- Designing continuous deployment strategy for the docker images, perform rolling updates, in Kubernetes and AWS EKS. Developed a Jenkins Pipeline to automate to push the images to ECR, and then deploying it in Kubernetes.
- Written Docker files with best practices along with Docker linting, Docker container management along with volumes, container-based DB and services.
- Developed and maintained custom tools and infrastructure using the Rust programming language to enhance performance and reliability
- Developed distributed Restful micro services in Java using Spring boot and Spring Security and deploy them on Docker containers on AWS
- Developed Chef Recipes to configure, deploy and maintain software components of the existing infrastructure.
- Implemented the Chef Software setup and configuration on VM's from the scratch and deployed the run - list into chef-server and bootstrap the chef clients remotely.
- Design and help to lead the implementations of cloud security solutions such as Web Application Firewalls, SIEM integrations, monitoring and auditing tools, and more.
- Designed IaaS and PaaS solutions for new clients migrating from onsite infrastructure to cloud.
- Managed servers on the Confidential Web Services (AWS) platform instances using Puppet, Chef Configuration management.
- Designed, Installed and Implemented CI/CD automation system. Used Ant, Maven as a build tools on java projects for the development of build artifacts on the source code.
- Lead the efforts create event drive service-oriented architecture.
- Define application and infrastructure architecture on AWS cloud under the tight budget.
- Setting up the build and deployment automation for Java base project by using JENKINS and Maven.
- Installation, Configuration and Administration of SQL Software and Individual database(s)
- Building and management of ELK (elastic stack) log aggregation software stack for developing SIEM tools and performing dynamic analytics with often under-utilized log data.
- Lead and mentor technical leads in adopting architectural processes and initiatives.
- Implemented single sign on with OKTA using oauth proxy 2 binary for consul UI.
- Developed Python and shell scripts for automation of the build and release process.
- Wrote Puppet manifests in Ruby for deploying, configuring and managing collected for metric collection and monitoring.
- Managed environments DEV, QA, UAT and PROD for various releases and designed instance strategies
- Managed AWS design architectures with AWS IaaS/PaaS, DevOps, Storage, Databases Components also Work with Cloud Platform Teams on implementing new features on AWS platform and Design and Development work on building scripts and automations for AWS cloud.
- Executed the DB Scripts (DML and DDL) which have dependencies on the code on Oracle DB.
- Migrated Oracle Databases from on-premises to AWS RDS - Oracle, Postgres, MySQL (views, stored procedures, functions, materialized views)
- Set SQL server configurations for SSIS packages and configured logging including windows event log and XML source.
- Augmented existing SaaS capabilities to address IaaS and PaaS governance opportunities in AWS.
- Administered and implemented continuous integration and test pipelines using Jenkins, automated builds and deployments.
- Installed, Configured and automated the Jenkins build jobs for continuous integration and AWS deployment pipelines using various plugins like Jenkins EC2 plug-in and Jenkins Cloud formation plugin.
- Designed & implemented automated server build management, monitoring & deployment using Puppet, Nagios.
- Created Kubernetes cluster with objects like Pods, Deployments, Services and Config Maps and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Helm packages.
- Work with the development teams on the CI/CD process related to Kubernetes deployments.
- Perform Kubernetes cluster builds, upgrades, and configuration.
- Build and Deploy the application code using CLI of Kubernetes called kubectl, kubelet, kubeadm, microk8s.
- Provision infrastructure by using Ansible Playbooks.
- Design application architecture overview diagram, process diagrams for the complex flows, entity relationship diagram and sequence diagrams by following GOF and J2EE patterns.
- Deployed and managed Confidential Aurora MySQL environments using Terraform
- Rolled out Chef to all servers, and used the chef node database to drive host configuration, DNS zones, monitoring
- Worked on Continuous Integration and Continuous Delivery, Monitoring, Software Configuration management, Build automation with artifact management, code quality integration with CI process.
- Worked in managing VMs in Amazon using AWS and EC2
- Collaborated with software development teams to integrate Rust components into the overall CI/CD pipelines
- Creating alarms in CloudWatch service for monitoring the server's performance, CPU Utilization, disk usage etc.

- Used IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources.
- Created AWS S3 Buckets, Policies and on the IAM Role based policies customizing the YAML CloudFormation templates.
- Worked with OpenShift platform in managing Docker containers and Kubernetes Cluster
- Created images in docker and deployed applications in docker container
- Created builds and release pipelines in VSTS and done deployments using SPN (secure endpoint connection) for implementing CI/CD.
- Created automated processes for activities such as database backup and recovery processes and SSIS Packages run sequentially using SQL Server Agent job.
- Worked on Oracle database- wrote DDL and DML files using SQL- set up procedures and triggers
- Used Integration of Mule ESB system while utilizing AnypointMQ, HTTP, File system and SFTP transports.
- Worked on setting up single sign on to login to Grafana UI using OKTA.

Environment: AWS EC2, MY SQL, Python, DDL and DML, MS SQL, GIT, IaaS/PaaS, VPC, Chef, Puppet, SonarQube, Jenkins, Ansible, CI/CD, Kubernetes, Terraform, Shell Scripting, Jenkins, Git, Jira, GitHub, Ansible, Docker, , Splunk, Prometheus, Grafana.

NIIT, USA

Jul2019 – Sept2022

Sr.Cloud/DevOps Engineer

Responsibilities:

- Responsible for managing the code in Subversion Repositories.
- Automating Cloud infrastructure setup via Cloud formation, terraform and. - AWS Code Deploy.
- Containerized the app using docker
- Performance tuning of SQL queries and stored procedures using SQL Profiler, DTA and Index Tuning Wizard.
- Maintained Single and Multi-container pods storage inside a node of OpenShift (Kubernetes) cluster.
- Did set up the Kubernetes cluster for various environments Dev, QA PROD
- Developed Views and Templates with Django view controller and template language to create a user-friendly website interface.
- Automated setting up server infrastructure for the DevOps services, using Ansible, shell and python scripts.
- Implemented automated cloud infrastructure using Chef and automated centralized configuration using Puppet
- Splunk dashboard setup to monitor performance
- Installed and configured Hashi corp Vault in AWS. Integrated vault wif Okta, Kube Auth,
- Developed web applications as well as various in - house tools in C#.
- Maintained and supported developers for SSIS/DTS, SQL Analysis Services SSRS.
- Automated the monitoring, Configuration Management, Log Aggregation of the Systems and Centralizing SIEM with AWS Cloud Formation, Puppet, Nagios and Elastic Search.
- Deployed and Published Django Web App in platform as a services PaaS in azure App services
- Implementation of cloud services IaaS, PaaS, and SaaS which include Docker and OpenShift.
- Installing and configuring the applications like docker tool and Kubernetes for the orchestration purpose
- Written puppet modules for logstash, elasticsearch and kibana and Used puppet to measure the AWS metric
- On boarded the various apps
- Migrated MySQL database environments with minimal downtime to AWS Aurora.
- Installed, configured and managed the RDBMS databases like MySQL, DB2 databases like MongoDB, DynamoDB.
- Built CI/CD pipeline and managing the infrastructure as code using Ansible.
- Configured and maintained Jenkins to implement the CI process.
- Worked in implementing new processes and Continuous improvement.
- Used existing cookbooks from Chef Market place and customizing the recipes with respect to each VM
- Worked on the docker network for setting up the private network and linking it to the container when it is spin up.
- Used OpenShift for Docker file to build the image and then upload the created images to the Docker registry.
- Created Jenkins on top of Kubernetes in team environment to remove dependencies on other teams.
- Create Chef Recipes, automation tools and builds, and do an overall process improvement to any manual processes
- Worked with Agile methodology in XL Deploy and XL Release, CI/CD automation from scratch, Docker, Openshift)
- Worked on puppet as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.

- Worked in AWS Cloud IaaS stage with components VPC, ELB, Auto-Scaling, EBS, AMI, EMR, Kinesis, Lambda.
- Used SQL Developer as a database tool and wrote DDL and DML files to create and manipulate tables in the database
- Used C#.NET as language to develop code behind business logic

Environment: GIT, SQL, Python, DDL and DML, MY SQL, AWS, Maven, IaaS/PaaS, Chef, Puppet, Jenkins, Nexus, Tomcat, Apache, Ansible, CI/CD, JIRA, Docker, Kubernetes, Splunk

**MITRE, Remote
DevOps Engineer/SRE Engineer**

July14 -June18

Responsibilities:

- Responsible for managing the code in Subversion Repositories.
- Responsible for configuring and maintaining tags, Branches and merging the code in the parallel development streams.
- Responsible for applying the monthly patches to different streams in Subversion Repository.
- Integrated Chef Automate with GIT and worked on it for Source code management to allow developers to do code review and verifying the source code before submitting.
- Analyzed and resolved conflicts related to merging of source code for GIT.
- Designed and created multiple deployment strategies using CI/CD Pipelines using Jenkins.
- Implemented new Docker container creation process for each GitHub branch gets started on Jenkins as Continuous Integration server.
- Developed Business Intelligence reports worked on WebLogic console and enterprise manager, and performed ADF deployments.
- Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets
- Written pre-commit, post-commit, post-receive hooks in GIT.
- Responsible for merging, tagging and conflict resolution in GIT
- Mirrored the Docker images required for Spinnaker from external registry to private Docker Registry.
- Implemented Security in Web Applications using Azure and deployed Web Applications to Azure
- Deployed microservices, including provisioning Azure environments using Ansible Playbook
- Apply SQL Service patches and managed SQL server security, Support SharePoint in SQL.
- Configured and maintained Jenkins to implement the CI process.
- Acted as build and release engineer, deployed the services by VSTS (Azure DevOps) pipeline. Created and Maintained pipelines to manage the IAC for all the applications
- Conveyed Azure IaaS virtual machines and Cloud administrations (PaaS) into secure Virtual Networks and subnets.
- Implemented Azure DevOps Multistage YAML pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes and Azure AppService Environments, Created Pods and managed using AKS.
- Responsible for User Management, Plugin Management and new job design and setup in Jenkins.
- Developed build and deployment scripts using MAVEN.
- Responsible for Installing, administering, repository management, User management, and plugin management in Nexus.
- Integrated SonarQube to analyze the code quality.
- Used the JIRA for bug tracking, creating the dashboard for issues.
- Deployed the applications to Tomcat Application Server and static content to Apache web servers.
- Assisting the Operations Team by writing specific Ansible Playbook to deal with application installations and related configuration files.
- Used Docker for setting Azure Container Registry with Docker and Docker-compose and actively involved in deployments on Docker using Kubernetes.
- Participated in meetings to discuss the release scope and/or roadblocks.
- Analytics dashboard setup using Splunk.
- Created CI/CD Pipelines in Azure DevOps environments by providing their dependencies and task
- Used puppet and Chef Automation tools for configuration management in different systems.
- Used MySQL, DynamoDB and ElastiCache to perform basic database administration.
- Created JRF template to the managed server to deploy and run ADF applications on the server.

Environment: GIT, SQL, ADF, MY SQL, Azure, Maven, IaaS/PaaS, Chef, Puppet, Jenkins, Nexus, Tomcat, Apache, CI/CD,

Ansible, JIRA, Docker, Kubernetes, Splunk

Ontra, USA
NOC Sr. Engineer

Sept09 -June14

Responsibilities:

- Acceptance test of new rings – STM 16, STM-64 and DWDM, ASON (Automatic switching optical network), OTN LINKS (Alcatel, Huawei & Ciena)
- Providing the diversity to links of the critical customer.
- Ring switch over testing done for all the new rings.
- Ring audit of DWDM, STM64 and STM16 for Network health checkup.
- Coordination with planning and NW Implementation Team to make network healthy.
- Performance Monitoring of Transmission SDH, OTN, DWDM for Backbone as well as for Access network.
- Alarm Management, Operation & Maintenance, Synchronization of Network, and Protection Techniques.
- Server backup, log monitoring

Environment: Linux, Remedy, ECI NMS, Alcatel NMS, Ciena NMS, Remedy.

Education: B. Tech in CSE from Yale University USA, / 2003-2007