

Pavel Kinev

DevOps Engineer/Systems Engineer

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SUMMARY

DevOps Engineer and **System Engineer** with **7+ years** of expertise in cloud infrastructure, automation, and system reliability engineering. Proven ability to optimize systems and improve operational efficiency through the implementation of best practices in **DevOps and SRE**. Skilled in managing large-scale cloud environments using **AWS, Terraform, CloudFormation**, and **Kubernetes**, as well as automating deployments and scaling systems. Expertise in configuring, provisioning, and maintaining Linux-based systems (**Ubuntu, RHEL, CentOS**) and Windows environments to ensure high availability and security. Strong background in system engineering with hands-on experience in network security, infrastructure monitoring, and continuous integration/delivery using tools like **Jenkins, Ansible, Docker**, and **Chef**. Adept at driving cost efficiencies, reducing downtime, and improving system reliability with scripting (**Bash, Python, PowerShell**) and infrastructure as code (IaC) methodologies.

SKILLS

Cloud Platforms: AWS (EC2, CloudFormation, Lambda)

Scripting & Programming: Bash, Python, YAML, Ruby, C#, Visual Basic, LabVIEW, AWS Command Line Interface (CLI), PowerShell

Infrastructure as Code: Terraform, CloudFormation (CFN)

Configuration Management: Ansible, Ansible Tower, Chef

Continuous Integration/Continuous Delivery (CI/CD): Jenkins, Hudson, CloudBees

Containerization & Orchestration: Docker, Kubernetes

Operating Systems: Linux, Ubuntu, RHEL, Amazon Linux, CentOS

Networking: Cisco IOS, Wireless Networking, Content Delivery Network (CDN), Web Application Firewall (WAF), Virtual Circuit Language (VCL), Curl

Version Control: Git

Database Management: MS SQL Server, SQL

ITSM: Active Directory/LDAP

EDUCATION & COURSES

Bachelor of Science- Manufacturing Engineering / Minor-Mathematics

| May 2009

Texas State University - San Marcos

Control Systems, PLC, and Ladder Logic

G-Code programming, MasterCAM

LabVIEW programming

CIM focuses on robotics, automation, Lean, and FMS Concurrent Engineering

CERTIFICATION

AWS EKS Master-Masterclass | DevOps, Microservices (Udemy)

Scaled Agile Framework 4.0

Docker Certified Associate (DAC)

Docker Technical Sales Professional (DTSP)

EXPERIENCE

DevOps Engineer/SRE

| Sept 2022 – Present

Morgan Stanley, Phoenix, AZ

- Create and maintain Terraform scripts for provisioning infrastructure on AWS, reducing deployment time by 40%.
- Implement a configuration management strategy with Ansible and Chef, leading to a 50% reduction in system downtime.
- Coordinate incident response workflows for Amazon Web Services, ensuring rapid mitigation of issues affecting EC2 instances and contributing to a system-wide mean time to recovery (MTTR) improvement of 25%.
- Create automated scripts in Bash for administrative tasks such as package updates, user management, and network interface configuration.
- Manage containerized applications with Docker and Kubernetes, ensuring consistent and scalable environments across development and production.
- Review scripts and code changes in Bash, Python, and Ruby to ensure compliance with security and operational standards, enhancing system reliability and code quality.
- Develop a distributed system (Python, C# server) to unify the build process with test automation programs, reducing the test's mean time to completion by 4 hours.
- Boost system reliability by 30% by incorporating SRE principles into application development.
- Led a quarterly SRE summit to align cross-functional teams on reliability goals, resulting in a 15% uplift in service performance metrics
- Developing and enhancing Continuous Integration/Continuous Deployment (CI/CD) pipelines to automate software delivery and improve deployment efficiency using Jenkins, Hudson, and CloudBees.

- Architect serverless solutions using AWS Lambda in event-driven patterns to power scalable and secure serverless applications.
- Optimize application latency by 40% by incorporating content delivery networks (CDN) into application design.
- Use YAML in Terraform and CloudFormation templates to automate cloud infrastructure provisioning, specifying resources, dependencies, and scaling configurations to meet application demands.
- Leverage Ansible Tower to automate infrastructure provisioning across multi-cloud environments, ensuring consistent configuration and reducing manual intervention for server builds and configurations.

DevOps Engineer

| Dec 2020 – Aug 2022

Uber, Sunnyvale, CA

- Deployed Infrastructure-as-Code (IaC) using Terraform and AWS CloudFormation, cutting system provisioning time by 60%
- Directed the transition to a microservices architecture using Docker and Kubernetes, resulting in a 50% decrease in downtime during deployments.
- Enhanced system reliability by 30% by incorporating SRE principles into application development.
- Reinforced the security posture by integrating AWS Security Hub and implementing IAM policies, resulting in a 30% reduction in security incidents and compliance with industry best practices.
- Managed and optimized cloud infrastructure on AWS using AWS CLI for efficient cloud operations.
- Develop a suite of automation scripts in Python and Shell, which reduce deployment times by 60% and significantly minimize manual errors in the release process.
- Built Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed using Kubernetes.
- Developed and optimized Ansible playbooks in YAML for consistent configuration management, automating server setups, package installations, and application configurations across environments.

DevOps Engineer

| Nov 2019 – Nov 2020

Proofpoint, Austin, TX

- Reduced AWS costs significantly, on the order of \$100k annually by analyzing the present utilization of services of AWS and cost explorer.
- Completed a project to shift from on-premise to AWS cloud, resulting in 70% faster deployment time and a 45% reduction in infrastructure costs.
- Administered and optimized systems running on Linux (Ubuntu, Red Hat Linux, and Centos) and Windows to ensure stable and secure operating environments.
- Created and managed Ansible playbooks for configuration management of 100+ virtual machines, ensuring consistent and secure server configurations.
- Utilized custom scripts using AWS CLI API to tag AWS resources allowing PFPT to analyze cost using a homegrown cost explorer in addition to the built-in cost explorer.

Sr. Consultant

| May 2019 – Nov 2019

Capstone IT, Austin, TX

- Addressed security vulnerabilities for the Library of Congress (LoC) such as Ubuntu and Redhat. Instituted security policies for these groups.
- Configured AD/LDAP and expanded forest into the AWS environment while maintaining AD/LDAP authentication.
- Managed SQL server instances with Reporting Services including SQL Server 2005-2014R2 and managed databases.
- Deployed ASP.NET web server applications in AWS for customers.

DevOps Engineer

| Apr 2018 – Apr 2019

OnPrem Solution Partners, LLC, Austin, TX

- Streamlined Windows and Linux server build processes using PowerShell and Bash, resulting in a 50% reduction in server provisioning time.
- Automated infrastructure provisioning and management with Terraform and CloudFormation, ensuring reproducibility and scalability.
- Created custom roles in Azure Active Directory for access control management of users and groups across multiple subscriptions.
- Supported and sustainment of two separate Digital Asset Management (DAM) platforms.
- Assisted in the development of a custom media management application. OEM application was built for a Windows server environment however we ported to Linux and 'Dockerized' the application.
- Led a similar effort as the previous bullet point as well as migrating the media management application (presently in Windows environment) to AWS.

Sr. Systems Engineer

| Oct 2016 – Dec 2017

Whole Foods Market, Austin, TX

- On DevOps team and supported 4 development teams within Whole Foods Digital Integrated Media including most notably the main website wholefoods.com.
- Established and maintained infrastructure in AWS for the Dev teams and worked on CI/CD resources such as Jenkins, Docker, Cloudbees, AWS CFNDSL, and Ansible Tower.
- Implemented Web Application Firewall for Whole Foods Market with assistance from Fastly CDN.
- Set up sumo logic integration with Fastly along with custom sumo dashboards.
- Implemented monitoring systems such as Sumologic for log aggregation, and Runscope for more complex API checks
- Generated automation strategies using AWS services like CloudFormation, AWS CLI, or Terraform to automate infrastructure deployment, scaling, and management