

Kevin P Inscoe

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Code: <https://github.com/KevinPInscoe>

Site Reliability Engineer/Cloud/Linux Engineer

GNU/Linux and Cloud software professional with 35 years of systems, virtualization, containerization, deployment, web and development experience which include Amazon Web Services, Python, SaltStack, Terraform, Datadog, PagerDuty, Docker, Nginx, Apache, Github and shell scripts. Beginning novice with distributed systems management such as Apache Mesos/Aurora and container orchestration such as Kubernetes and Docker Swarm.

Professional Experience (prior 20 years)

Staff Engineer: Houghton Mifflin Harcourt: 2002-2020

Site Reliability Engineer. Deployed AWS infrastructure for engineering teams using Hashicorp Terraform working in teams on a bi-weekly scrum. More recent responsibilities include:

- Deploy AWS infrastructure and resources using automation and pull requests including Terraform and Jenkins. Familiarity with Amazon SDK's including CLI and Python.
- Cost reduction. Personally identified underutilized resources and reduce monthly spend by \$1300 a month in the last year.
- Implement metrics and log forwarding to Datadog. Create monitors and reports from Datadog metrics. Assign alerts to PagerDuty. Created Health reports from AWS Personal Health Dashboard to SNS topics and Pagerduty.
- Create AWS cost and tagging compliance tools using Python or Terraform.
- Create tooling (usually AWS Lambda and Python) to retrieve CDN (Akamai) logs to ELK stack.
- Support multiple nine node Marklogic high-performance clusters including scale-out, separating data and e-nodes, performing numerous migrations, XQuery scripting, backup/restore, database forest and replicas administration in AWS Cloud environments.
- Adminstrate, create properties, Header administration, spoof-testing Staging network, Authenticate requests for AWS S3 origins, deploy and purge content, Netstorage administration and API programming (Python).
- Create common Terraform modules (referencing other Github modules) for use across multiple AWS environments.
- Creating AWS VPC, subnets, routing and VPC Gateways both via Console and using Terraform. Create VPN and Direct Connect network connections with existing infrastructure. Create Virtual private gateway associations.
- Create infrastructure using AWS CloudFormation however deferred mostly to Terraform for provisioning. Importing and exporting using CloudFormation.
- Implement, destroy and monitor AWS infrastructure including EC2, S3, RDS, SQS, SNS, MQ and Lambda. Create auto-scaling in conjunction with AWS ELB load balancers and WAFs. Experience with AWS ACM certificate management and AWS IAM best practice such as roles, STS tokens amd cross-account practices.
- Manage backup and recovery using N2WS Backup & Recovery (CPM), EC2 AMI and EC2 Snapshots management.
- AWS EC2 Linux and Windows patch management using SaltStack and SSH access via AWS Systems Manager.
- AWS EC2 AMI creation using Packer.io.
- Linux Configuration management using SaltStack, Chef, AWS OpsWorks and Systems Manager.
- AWS Storage technologies such as NFS, EFS and EBS volumes.
- Migrated over seventy applications from traditional infrastructure into AWS Cloud.
- Managed Terraform pull requests using runatlantis.io and Terraform Enterprise.
- Manage Java web applications and deployments via IBM WebSphere, Jboss, Glassfish and Tomcat.

- Manage and deploy scalable performance driven web application clusters using Nginx, HAPROXY, FastCGI-FPM, Memcached and Amazon ElastiCache.
- Written numerous tools and one-offs using Bash, Java, PHP and Python.
- Implement and maintained the company domain name services (DNS) public and private including DNS spoofing, Blackhole, AWS Route 53, Active Directory and BIND. Setup DNS spoof and proxy services such as Dnsmasq, SQUID and Privoxy.
- Implement SMTP gateways using Postfix and implementing anti-spam and blacklist (DNSBL/RBL) technology such as setting SPF DNS records, using DKIM and DMARC. Create AWS SMTP gateways using AWS SES.
- Mentor, teacher for Engineering and Content Management staff on many topics related to infrastructure, Linux engineering and repository best practice.
- Administration and migration of a number of large (2TB+) Subversion, CVS and Git repositories. I teach Git best practice. See <https://kevininscoe.com/git-work-flow>.

Complete employment history available on LinkedIn.

Technical Experience

Open Source Contributions to the Gentoo Linux Project such as ebuilds and bugfixes.

Programming **Python:**5 years

Languages and **Perl:**25 years

syntaxes **Bash/Shell script:**26 years

Hashicorp HCL:4 years

SaltStack:3 years

PHP:15 years

HTML:25 years

Basic knowledge of **Java, GNU C++, x86 assembly (MASM), COBOL, Pascal**

Novice knowledge of **GoLang, R**

Skills not previously mentioned Vault, Terraform Enterprise, Linode, Apache, Jira, Confluence, PyCharm, YAML, JSON, XML, CSS, PowerShell, Visual Basic, VAX, OpenVMS, Solaris, ZFS, Solaris Zones, Google Cloud (GCP), Nagios

Major Accomplishments:

Complete list at <https://kevininscoe.com/skills>.

PDF: <https://kevininscoe.com/resume/resumeofkevinpinscoe.pdf>

RTF/Word: <https://kevininscoe.com/resume/resumeofkevinpinscoe.rtf>