James Allenby

AWS DevOps Engineer

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Experience

Immediate Media, Hammersmith - July 2018 to June 2024

- **Setup, maintained and monitored** an auto-scaling EC2 cluster of CentOS 7 web application servers.

- **Orchestrated centralised monitoring and logging** across multiple accounts using unified tag rules according to AWS Organizations best practices.

- **Hosted tech-wide talks for developers** on ideas how they can use our monitoring and logging platform to speed up development and identify issues sooner.

- **Designed and implemented a six-month migration plan** for moving Linux distribution from CentOS to Rocky Linux.

- **Ported development environment and tooling** from virtual machines to Docker containers to support AArch64 and eventual production migration to ECS and Ansible.

- **Saved up to 90% of our build costs** by reconfiguring our pipelines to use spare capacity on AWS infrastructure.

- **Streamlined our delivery pipeline** by identifying bottlenecks and parallelising build stages where possible.

- **Improved our security posture** by implementing custom SELinux policies in CIL for our third-party software.

- **Coached new and existing team members** in best practices for shell scripts, Terraform when extending or creating build pipelines .

- Created infrastructure to **build x86-64 and AArch64 containers** with BuildKit and multi-platform manifests.

- **Reduced development environment costs by 33%** by writing Lambda functions in Python to schedule adjustments to resources during out of hour periods.

- **Advanced experience in diagnosing complex issues** throughout the entire stack with a big picture approach.

- **Contributed to upstream puppet modules** to address issues generating OpenSSL certificates under Rocky Linux.

- An **experienced advisor** for changes related to our Linux servers, Jenkins pipeline, logging and monitoring approach.

Skills

System Administration

- RedHat Enterprise Linux, Alpine Linux, Debian, systemd (units, sockets, timers), Cron, SELinux, Firewall, Puppet, Ansible, OpenSCAP, Linux Kernel.

CI/CD Pipelines

- GitHub Actions, AWS CodeBuild, AWS CodePipeline, AWS CodeBuild, ArgoCD, Terraform Cloud, Jenkins.

Cloud Infrastructure

- Well Architected, high-availability, multi-AZ, platform and environment design, AWS, Fastly, Datadog, Rackspace.

Networking

- AWS VPC, Security Groups, NACLs, Subnets, AWS Transit Gateway, IGW, NAT Gateway, VPC endpoints, trace route, n-tier architecture.

Containers

- Docker, BuildKit, Podman, AWS ECS, Kubernetes, Helm, Terraform, Dockerfile, Docker Compose.

Scripting/Programming

- Terraform, Bash, Python, Go, C, C++, Rust, TypeScript, NodeJS, Ruby, Groovy, PHP, Terraform.

Certifications

- AWS Certified Solutions Architect – Associate 2024

- Microsoft MTA: Software Development Fundamentals Certified 2019

Work Eligibility

- UK and European Union

References

- Available on request