Michael Heironimus

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Key Skills

Automation / Infrastructure-as-Code

- Terraform for AWS
- Python/boto3 for AWS
- AWS CloudFormation
- Scripting in Bourne/Korn shell, Python, PowerShell
- Version control with git, Subversion (svn)

Platforms

- Amazon Web Services, focusing on EC2, S3, Route 53, Lambda, IAM
- Red Hat Enterprise Linux, Ubuntu Server, Windows Server
- Containers using Docker on Linux and AWS ECS/Fargate
- AMI builds with Packer

Cloud Security

- AWS IAM policy creation and analysis
- AWS Organizations service control policy (SCP) configurations
- AWS EC2 Security Group configuration
- SSL-protected services

Networking

- AWS VPC networking
- AWS Transit Gateway
- HTTP load balancing and proxying
- DNS integration and management

Work Experience

Cloud Engineer (consultant) TEKsystems Mar 2021 - present

AWS infrastructure platform engineer for internal hosting environments.

- Built multiple AWS landing zones to allow creation of isolated environments.
- Enabled creation and maintenance of hundreds of multi-region tenant accounts by designing reusable, modular build tooling in Terraform.
- Ensured security and compliance requirements were enforced in self-service tenant environments using IAM policies, Service Control Policies (SCPs), and event-driven Python remediation code.
- Documented Terraform state management operations required to support recovery from errors or manual modifications.
- Analyzed policies and CloudTrail events to resolve access issues blocking project implementations.

DataServ Cloud Engineer Apr 2019 - Feb 2021 AWS SME for cloud migration project using multiple AWS services, including EC2, S3, RDS, and ECS/Fargate.

- Planned and ran internal training sessions with the system administration team on both general AWS technologies and the specific implementations of them to allow self-sufficient operation of the environment.
- Set direction for cloud implementations by defining and documenting standards.
- Documented new and existing cloud environments by creating architecture diagrams.
- Simplified network routing and security controls by defining a standard IP subnet strategy for new environments.
- Wrote CloudFormation templates to ensure consistent builds across environments for new systems.

Senior Consultant (Director level) Mastercard

Dec 2017 - Apr 2019

Cloud technology SME, focusing on Akamai, private cloud, and monitoring. • Wrote internal whitepaper on current industry approaches for cloud-native application

- architectures.
- Improved operational effectiveness by building relationships across development, operations, and monitoring teams to enable more open communication.
- Partnered with application support teams and Akamai contacts to enable integration of Akamai web security products.

Cloud Operations Architect

2nd Watch

May 2017 - Nov 2017

Amazon Web Services managed operations architect.

- Created diagrams and documentation for existing customer-built environments.
- Engaged with clients in planning and design sessions.
- Supported client infrastructure by updating CloudFormation and Terraform.
- Partnered with support teams as escalation point and knowledge resource.

Cloud Automation Engineer GTC Systems / CrowdStrike July 2016 - Mar 2017 DevOps Engineer in AWS/Chef/Ubuntu environment.

- Automated ongoing maintenance tasks by writing scripts in Python, Ruby, and bash.
- Provided internal Chef expertise. Updated cookbooks and configuration data for new requirements. Trained developers to use Chef for self-service tasks. Advised on potential approaches for high availability in Chef Server.
- Configured Graphite monitoring infrastructure. Replaced hand-built standalone components with scalable, Chef-managed configurations.

Cloud Engineer (consultant) Levi, Ray, and Shoup June 2015 - July 2016 Cloud and infrastructure automation engineer.

- Automated golden image builds by writing Chef cookbooks to apply DISA STIG security policies and install standard required infrastructure services.
- Ensured Chef cookbook quality by writing test suites in Test Kitchen and ServerSpec, using a mixture of Docker images and VMs.
- Designed and documented Chef infrastructure running in AWS environments using external Postgres in RDS.
- Advised clients on best use of AWS technologies.

Cloud Engineer (consultant) Programmer Resources Intl Mar 2015 - June 2015 Cloud engineer supporting AWS-based web application environments.

- Updated Python/Puppet automation framework for new requirements and bug fixes.
- Scoped technical work for requested tool enhancements. Wrote stories in Jira with identified tasks.

Senior Consultant (Director level) Mastercard May 2014 - Mar 2015
Technical lead for application infrastructure/operations team.

- Resolved outstanding audit points by working with multiple teams to migrate to HSM-protected encryption keys for application data.
- Drove improvement of application disaster recovery procedures.
- Coordinated transition of reporting support from development team to operations team.
- Advised on PCI certification remediation plan for reporting application.

Consultant iBridge Solutions Apr 2012 - May 2014
Technical lead for new reporting application implementation.

- Resolved outstanding performance issues prior to production deployment by partnering with development lead to create new architecture capable of scaling to tens of thousands of reports per day.
- Moved reporting system from external administration to internal team. Documented installation, configuration, and problem analysis procedures. Built training plans for support transition.
- Guided application through PCI certification process as technical owner.