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JAMES HALE

INFRASTRUCTURE SECURITY ENGINEER

Security engineer with over eight years of experience. Specializing in architecting and deploying secure and scalable systems with high availability, using cloud-based and on-premises infrastructure resources, including hybrid solutions.

DevOps and security focused. Experienced in Agile methodologies, including Scrum and Kanban. Leadership experience

Specialties include: AWS, VMware, networking, automation and security.

EDUCATION/CERTIFICATIONS

University of Massachusetts Amherst - B.S. Computer Science (2009)

AWS Certified Solutions Architect - Professional (2017)

AWS Certified Security - Specialty (2019)

Certified Information Systems Security Professional (CISSP) (Feb. 2020)

SKILLS

Information Security	Nessus, OSSEC, Nmap, Kali Linux, Metasploit, Snort, Burp Suite
Identity Federation	SAML, OpenID Connect, Okta, Keycloak, AWS IAM
Languages:	Python, Golang, Ruby, Groovy, PHP, Perl, YAML, JSON
Configuration Management:	Puppet, Chef, Ansible, SaltStack.
IaaS Platforms:	AWS, VMware, Google Compute Engine, OpenStack
Container technologies:	Docker, Kubernetes, Mesos, AWS ECS

- Primarily focused on deploying fault-tolerant, highly-available, and secure systems across a multitude of platforms
- Expertise with cloud and on-premises infrastructure platforms, IaaS/PaaS, including designing and implementing hybrid solutions.
- Security-minded. Aim to identify, assess and remediate risk and vulnerabilities in platforms.
- Strive to provide infrastructure as a service to software developers and facilitate their deployment tasks without increasing risk exposure to the platform.
- Experience with automating deployment and administration tasks with configuration management platforms.
- Knowledge of data center and NOC operations.

WORK

Lead Systems Security Engineer
Senior Systems Security Engineer
Salesforce.com, Herndon, VA

August 2019 – Present
April 2018 – August 2019

- Maintain AAA (Authentication, Authorization and Accounting) infrastructure for Salesforce's core product.
- Led effort to deploy Terraform across the Government Cloud infrastructure. Focused on AWS GovCloud Identity and Access Management.
- Designed federated authentication and centralized logging mechanisms in AWS GovCloud.
- Use Puppet and other configuration management frameworks to implement security controls for FedRAMP Moderate and High, and DISA IL4 compliance.

Senior DevOps Security Engineer
Team Lead, Security Automation Engineering
Blackboard, Washington, D.C.

November 2016 – April 2018

- Researched, designed, developed, documented and implemented solutions for fault tolerance, performance, capacity, and configuration management for various data center operations.
- Defined, planned, designed, and evaluated information security systems.
- Designed, implemented, and maintained security infrastructure.
- Led a team of security automation engineers to identify platform vulnerabilities, help design and implement security solutions.
- Contributed to and maintained security posture of the platform.
- Served as a mentor to other Security and DevOps engineers.
- Designed, developed and implemented documentation or tools to facilitate Technical Support team responsibilities.
- Identified and drove opportunities to improve automation for deployment, management, and tooling, using Python, Ruby and Groovy, among other languages.
- Supported and improved a highly available and fault tolerant SaaS offering.

Senior Infrastructure Engineer
The Washington Post, Washington, D.C.

January 2015 – November 2016

- Implemented ephemeral, long-lived and immutable infrastructure as code, using AWS CloudFormation and internally-built solutions.
- Maintained infrastructure resources in an auditable and repeatable fashion using configuration management platforms and version control systems.
- Was responsible for designing and implementing robust network and security architectures.
- Helped to maintain a strong information security posture for data in transit and data at rest.
- Provided expertise to software developers on AWS services and best practices, such as EC2 (incl. EBS, ASG, ELB), VPC/Direct Connect, Route53, S3, IAM/KMS, RDS, SNS, SQS, SES, and CloudWatch.
- Contributed to internal software projects, centered around the orchestration of infrastructure resources and the continuous deployment of containerized applications to test and production environments.

Unix Systems Engineer

December 2011 – January 2015

The Washington Post, Washington, D.C.

- Managed physical and cloud-based infrastructure for the print, mobile, and web properties of Washington Post Media
- Supported content management systems and applications utilizing Apache, Nginx, Tomcat, and dynamic Java applications deployed on Glassfish and WebLogic application servers.
- Maintained Unix production, stage, and test environments, utilizing RedHat 5/6/7, CentOS 5/6/7, Solaris 9 & 10, AIX 5.3, HP-UX and Mac OS X Server
- Performed code deployments for development teams
- Carried out system maintenance and upgrades as needed, including backups and restorations
- Participated in 24x7 on-call rotation
- Assisted with a major data center relocation

Client Systems Engineer

September 2010 – December 2011

The Washington Post, Washington, D.C.

- Developed and maintained Windows and Mac desktop images, software deployments, and application patching while also identifying and resolving desktop security issues.
- Provided technical expertise to assist with implementation of desktop technologies: Windows and Mac desktops and laptops and their operating systems, desktop applications, management systems, and tools
- Created and supported desktop management related technical policies and procedures; helped to create and maintain related documentation.
- Administered and assisted in deploying LANDesk 8.8 & 9 environments and Symantec Endpoint Protection for a client base of 3000+ machines.
- Deployed regularly scheduled and out of band security/OS patches and updates via LANDesk and other mechanisms.
- Co-developed an asset management system to track physical assets via barcode scanning devices.

System Support Analyst

July 2009 – September 2010

Washingtonpost.Newsweek Interactive, Arlington, VA

- Actively monitored an extensive production environment for washingtonpost.com and other high-traffic Post properties
- Acted as a liaison between coworkers and the development and infrastructure technology teams
- Provisioned, integrated, diagnosed, and maintained PC and Macintosh clients in an Active Directory environment