

TRAVIS BROWN

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A lifelong learner with a commitment to curiosity, empathy, automation, & security.

EMPLOYMENT

Rapid7 - Support Engineer

December 2021 - Present

Unix, cloud, & container security, & API integration support for 10,000+ customers.

- AWS cloud admin for support org - drove a 70% cost reduction with Boto3 & Terraform.
- Create REST API testing & automation scripts using Python & Docker.
- InsightVM focus - Unix, Windows, network, database vulnerability & policy assessment.
- API integration specialist - AWS, Docker, Kubernetes, Jenkins, Jira, ServiceNow, splunk, & more.
- Container image assessment via InsightVM's registry scanning & Jenkins CI/CD plugin.
- InsightAppSec cross-training - DAST, authentication, & Jenkins CI/CD integration.
- Mentor for Rapid7 internship program.

Florida Department of Agriculture - Support Analyst

July 2021 - December 2021

Desktop support for an enterprise of 4,500+ users.

Florida State University - Support Analyst

January 2020 - July 2021

Sysadmin, security for Windows & RHEL servers, level 2 desktop support for 500+ users.

- Implemented CIS Windows 10 Workstation L1 hardening benchmarks using GPO & PowerShell.
- Tightened security posture, vulnerability assessment with InsightVM.
- Audited server & network infrastructure (weak configurations, cipher suites).
- Automated remediation for RHEL, MacOS, & Windows via Bash, Python, Munki, GPO, PowerShell.

Arcvale Entertainment - Engineering Intern, Unity

November 2019 - June 2020

DevOps Evangelist. Software engineering intern for an upcoming Nintendo Switch release.

- Reviewed, refactored, designed, & authored code in C#.
- GitLab maintainer. Provisioned, monitored, secured GitLab infrastructure.
- Implemented linting, unit testing, & merge automation with GitLab Runners.

SKILLS

◇ Dev ◇

Python | Bash | Terraform | Git | REST APIs | Jenkins | CI/CD | OOP | NoSQL | PostgreSQL

◇ Sec ◇

Vulnerability assessment | DAST | Container image scanning | Configuration management

CIS benchmarks | Nmap | Wireshark | TLS & PKI | Cryptography | Least privilege

◇ Ops ◇

Linux | Docker | TCP/IP | DNS | HTTP | Network troubleshooting | LDAP/AD | Deployment strategies

◇ AWS ◇

IAM | Boto3 | Lambda | DynamoDB | S3 | RDS | API Gateway | SQS | SNS | CloudFormation | Code*
EC2 | ECS | Fargate | ASGs | ELBs | VPC | CloudFront | Route 53 | CloudTrail | Eventbridge | CloudWatch

◇ Soft Skills ◇

Troubleshooting | Excellent communication | Public speaking | Leadership | Mentoring

EDUCATION

Certifications

AWS Certified Developer - Associate

AWS Solutions Architect - Associate

CompTIA Security+

InsightVM Certified Administrator

Studying

HashiCorp Certified Terraform Associate

AWS Certified DevOps Engineer - Professional

Florida State University

Music Liberal Studies B.A. - Computer Science & IT Minors

PROJECTS

Containerized multi-threaded API testing script

Container image to run a multi-threaded InsightVM API testing Python script. All made from scratch using Python's concurrent.futures module & Docker.

AWS Boto3 module/class design

Reusable modules for Boto3 authentication & streamlining the JSON data received from various AWS services.

AWS Boto3 EC2 automation scripts

Using the above modules, quickly created scripts for EBS volume checking, EC2 instance tagging, & Lambda functions to shutdown instances based on tags. Automated with Eventbridge cron events.

Terraform AWS deployments

Various infrastructure including VPCs, subnets, ELBs, EC2 instances, ASGs, IAM resources, secure S3 buckets, encrypted RDS/Aurora databases with enforced TLS connections, deployed with Terraform.

AWS Boto3 & Terraform - Checking EC2 Instance Profile permissions (WIP)

Boto3 script to check a region's EC2 instance profiles, then parse each role's JSON IAM policy documents to check if it can write to a specific S3 bucket. Written using Boto3. S3 buckets, IAM policies, IAM roles, VPCs, EC2 instances, EC2 instance profile associations created with Terraform.

GitLab with GitLab Runners

Self-managed GitLab server for a Unity C# project. GitLab Runners conducted unit testing to validate functionality before integration, & linting to minimize diffs. Deployed on Ubuntu within AWS, monitored with CloudWatch.

Jenkins pipeline with DAST

Docker-hosted Jenkins pipeline using GitHub APIs & the InsightAppSec plugin for DAST.

Learning K8s microservices (WIP)

Local minikube Kubernetes cluster deployed using Docker as the container runtime. Simple authentication, queues, & databases to mirror a proper microservice architecture. Built with Python, MySQL, MongoDB, & RabbitMQ. Managed with k9s.

Collaborative chaos engineering & response

A group of friends each maintaining & monitoring their own RHEL httpd servers in their own AWS accounts. Each has remote access to the others' servers & does what they can to randomly antagonize, stress, or break each others' environments.