

ANDREW GONZALEZ

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A passionate DevOps Engineer who has hands-on experiences supporting, automating, optimizing deployments in AWS, leveraging configuration management tools, CI/CD, and aiding in illustrating the DevOps philosophy.

EXPERIENCE

DevOps Engineer II, Forcepoint

Jul 2021 - present

- Developed a Jenkins pipelines to run tasks such as renewing SSL certificates and backing up the Forcepoint GitHub Enterprise appliance.
- Automated the deployment of Jfrog Artifactory Edge & Distrubtion using Terraform, Packer, Ansible and bash.
- Created a slack bot to notify the team when various changes occur to Jenkins, GitHub Enterprise, Aritfactory and SonarQube.
- Built a command line tool to pull all GitHub Enterprise repositories from our Organization, clone each repository using threads, logged total time elapsed cloning all repositories and git trace information. This was used to test the integration between the Forcepoint GitHub Enterprise appliance and the Forcepoint Cloud Access Security Broker for analyzing traffic between the two applications.
- Worked alongside the Security team to help automate Nessus scans by utilizing the Nessus API, using Jenkins groovy functions in a pipeline & Python to run remote scans on AWS infrastructure or Docker images.
- Used Python to aggregate information from SonarQube, GitHub Enterprise, Artifactory, Jenkins and published a report to a Confluence page in the format of a CSV file.

DevOps Engineer, Forcepoint

Aug 2019 – Jul 2021

- Actively create, manage and monitor cloud infrastructure on AWS such as EC2, ECS, Lambda, IAM, Auto Scaling Groups, Route 53, RDS, and Load Balancers.
- Used Terraform and Docker to automate the deployment of Hashicorp Vault as a ECS service.
- Utilize the Terraform Vault provider to maintain Vault secrets, policies and authentication methods.
- Configured an automation solution for monitoring all private and internal repositories maintained in our GitHub Enterprise Application.
- Create, update and maintain Jenkins Shared library functions, which are used by global engineering teams to aid them in their CI/CD pipelines such as submitting custom metrics to datadog from a pipeline or scanning a GitHub Enterprise repository for security vulnerabilities.
- Created and maintained a Python module that uses the GitHub Enterprise API endpoints to help aid in automating administrative processes.
- Used Ansible to write various roles such as provisioning a installing docker, setting up a datadog agent, and installing Artifactory.
- Developed several AWS Lambda functions written in Python to help monitor our internal Artifactory and GitHub Enterprise applications.
- Created and maintained Terraform modules to speed development, improve code re-use and help standardized deployment.
- Use tools such as DataDog agents and CloudWatch to monitor infrastructure and applications utilization.

PROJECTS

Python Module for FaB DB (pyfabdb)

A Python Module for the Flesh and Blood DB API which allows you to interact with the API in a pythonic way. With pyfabdb you can get a card by the card slug identifier, get all cards or retrieve a deck by the deck slug identifier

Terraform DigitalOcean Remote Space Module (terraform-do-remotestate)

A Terraform module that allows you to create a DigitalOcean space to be used as a Terraform remote state store.

EDUCATION

Texas State University

Aug 2019

Bachelor of Science in Computer Science