

Richard Craddock

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[Linkedin](#) | [github](#)

Tech Stack

- AWS - EC2, S3, Route53, DynamoDB, Lambda, CodeBuild, CodePipeline, API Gateway, VPC, CloudFront, CloudWatch, CloudTrail, Cognito, Inspector, Organizations, KMS
- Pulumi, Terraform, CloudFormation, Ansible, Docker
- Git, Bitbucket
- HTML, CSS, JavaScript, Python, Bash, HCL

Relevant Experience

DevSecOps Engineer

June 2022 - Present

Alpine Cyber Solutions

- Lead the adaptation of Ansible to securely configure a fleet of over 1500 Point of Sale (POS) systems.
- Developed a dynamic inventory using an API and Python to automate Ansible inventories efficiently.
- Provided support for the implementation of an Azure App Gateway with Web Application Firewall (WAF) enabled in Terraform for external customer domains within the Azure Cloud.
- Designed and implemented logging and monitoring solutions for gateway traffic with Azure, enhancing security and performance.
- Created a robust patching architecture for client machines, complete with reporting features to ensure system integrity.
- Established an automated process for imaging patched POS machines using Packer, GitHub, VMware, Ansible, and PXE, resulting in a remarkable 70% improvement in image deployment efficiency.
- Utilized Bitbucket Pipelines to deploy an OWASP SonarQube container for static code analysis and secret scanning as part of the client's Software Development Life Cycle (SDLC).
- Designed and implemented an AWS Organizations solution to automate development environments, streamlining the process by 80%.

Freelance Engineer

May 2022 - Dec 2022

Cloudbuddies Inspired Cloud Solution

- Assisted in the design and development of a front-end application utilizing a bot communication system built on REACT.js. The bot communicates with the back end, which deploys Infrastructure as Code (IAC) templates using Pulumi.
- Contributed to the development and design of templates for the back end, encompassing elements such as AutoScaling groups, Launch Templates, and Load balancers.
- Collaborated closely with the team to comprehend and address infrastructure requirements for both non-production and production environments.
- Designed autonomous templates with a focus on reusability, streamlining the development process.

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Slack Reporting Application

github.com/aliciousness/caseyProject

- Designed a Slack App powered by a serverless backend constructed with Python and Pulumi, making use of AWS Lambdas, API Gateway, and DynamoDB.
- Authored an AWS Lambda function using Python and Boto3 to process incoming Slack commands and manage data effectively.

Resume

github.com/aliciousness/new_website

- Designed and implemented a CI/CD pipeline using GitHub, AWS CodeStarConnect, AWS Codebuild, AWS CodePipeline, and S3.
- Registered a unique DNS for the website utilizing AWS Route53
- Brought the website to the internet by applying AWS Certificate Manager and AWS CloudFront.

Slack Weather Application

github.com/aliciousness/Weather-repo

- Capitalizing on AWS serverless Lambda to interact with OpenWeatherAPI
- In combination with Python Time module, and boto3 to post to a Slack channel with the sunrise, sunset, temperature, and the designated location.
- Employed Git to leverage version control.

VPC Infrastructure

github.com/aliciousness/VPC_prac

- Defined a virtual network through Pulumi in partnership with AWS VPC
- Employed AWS Systems Manager to manage private instances
- Deployed Public and private subnet resources in designated availability zones.
- Recruiting AWS EC2, to set egress and ingress access and spin up virtual computing environments.

Education

Quakertown Community High School

June 2013