Shailesh Daf's AWS Capstone Project-1 Guide

Comprehensive Implementation and Configuration

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Introduction

Project Overview

- Guide for implementing and configuring CloudFolks HUB Capstone Project-1, covering architecture setup, deployment, security, and monitoring.

- Focus on AWS services like VPC, EC2, EFS, Load Balancers, security groups, monitoring, and backup strategies.

- Detailed steps for setting up architecture, deploying applications, and ensuring security and monitoring.

- Comprehensive guide for CloudFolks HUB Capstone Project-1 implementation and configuration.
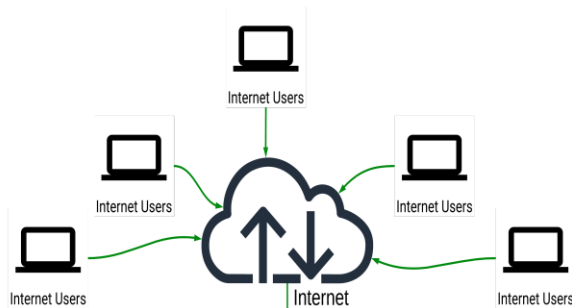
Deployment Strategy

High-Level Architecture

- Architecture includes VPC with public and private subnets, EC2 for hosting, EFS for storage, and ALB for traffic distribution.

- Key components: VPC for secure network, EC2 for web hosting, ALB for traffic distribution, and EFS for scalable file storage.

- Details the setup of VPC, EC2, EFS, and ALB for the CloudFolks HUB Capstone Project-1 deployment strategy.

- Overview of VPC, EC2, EFS, and ALB setup for Project deployment.
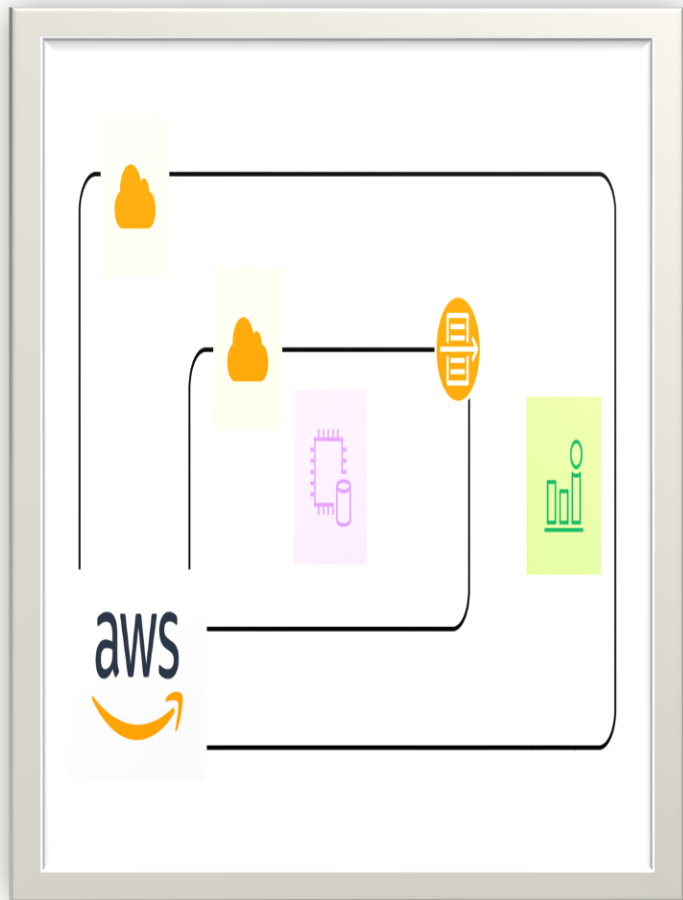
Challenges Encountered

Configuration and Integration

- Encountered complexities in VPC setup, routing, and security configurations.
- Integration challenges with EC2, EFS, and ALB components working together seamlessly.
- Scalability issues with initial configurations not handling traffic spikes adequately.
- Challenges faced in configuration, integration, scalability, and high availability considerations for Project.

Solutions Implemented

Troubleshooting and Adjustments

- Implemented systematic troubleshooting methods, reviewing logs and configurations.
- Adjusted Auto Scaling settings to handle traffic spikes better.
- Modified VPC configurations to improve routing and security measures.
- Implemented solutions for troubleshooting, Auto Scaling adjustments, and VPC configuration modifications for this Project.

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Results and Performance

Monitoring and Metrics

- Monitoring tools like AWS CloudWatch showed significant improvements in application performance.
- After adjustments, application response times improved under load, handling increased traffic.
- Graphs and charts illustrate improved performance metrics, reduced latency, and increased throughput.
- Results and metrics from monitoring tools displaying performance enhancements.