THE CLOUD BOOTCAMP

MULTICLOUD & DEVOPS SPECIALIZATION PROGRAM

ABOUT THE **MULTICLOUD & DEVOPS** SPECIALIZATION

In the MultiCloud & DevOps Bootcamp, you will immerse yourself in **4 Cloud providers: Oracle Cloud Infrastructure, Amazon AWS, Microsoft Azure, and Google Cloud Platform.**

Throughout this journey, you will implement projects based on **real-world scenarios** such as Cloud migration, application and infrastructure modernization, MultiCloud integration, infrastructure as code, among others.

In addition, the MultiCloud & DevOps Bootcamp will provide you with complete modules with hands-on projects using technologies such as **Git, GitHub, Terraform, Ansible, Docker, Kubernetes, Pipelines CI/CD, Prometheus, Grafana, Python, and much more**

The MultiCloud & DevOps Bootcamp is designed to be completed in 36 weeks (approximately 9 months) by dedicating 2 hours per day, 5 days per week to the program.

PREREQUISITES TO JOIN THE **MULTICLOUD & DEVOPS SPECIALIZATION PROGRAM**

To join the program, you should preferably be a technology professional hungry for Cloud Computing knowledge.

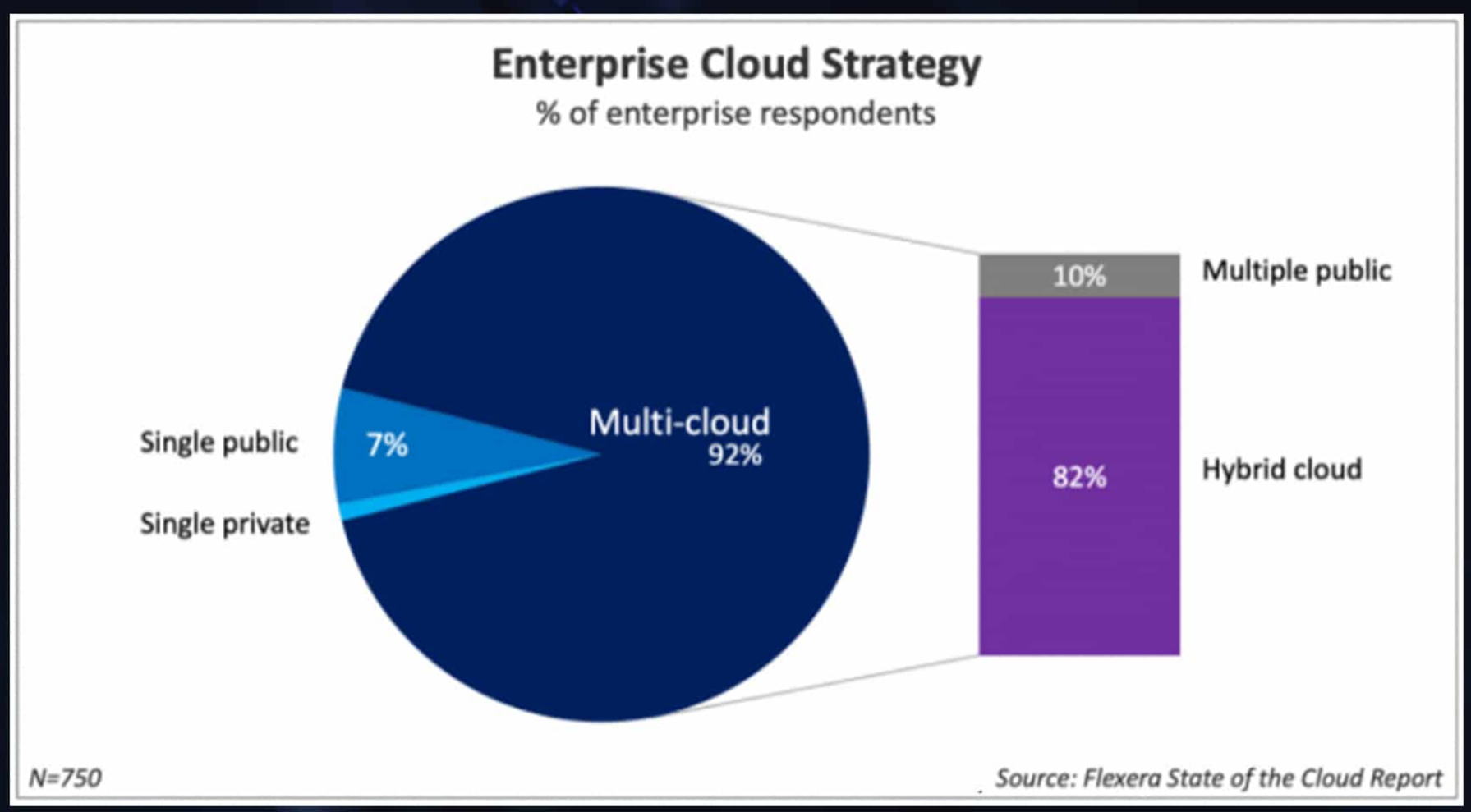
It's not necessary to know how to code or have a Cloud Computing background to join the program.

You will specialize from scratch and become an IT Professional in high demand by the market.

Regardless if you work as a **Developer, Infrastructure, IT Management, or any other role,** with no knowledge or advanced knowledge in Cloud. The Program is for you that wants to keep yourself relevant in the market continuously. Flexible and ideal for IT Professionals without time.

MULTICLOUD:
THE GREAT TREND

Enterprises continue investing heavily in MultiCloud and hybrid-cloud strategy. According to the Flexera State of The Cloud report, **92% of enterprises are betting on MultiCloud** strategy and only 7% of enterprises intend to use only a single Cloud provider in their enterprise strategies. The future and the present are already MultiCloud and only the Technology Professionals who develop this knowledge will be relevant.



Forbes

INNOVATION

90% Of Companies Have A Multicloud Destiny: Can Conventional Analytics Keep Up?

WHAT MAKES OUR MULTICLOUD & DEVOPS SPECIALIZATION PROGRAM **UNIQUE?**

We count on a unique teaching methodology, based on Bootcamps (intensive, practical and applicable) idealized by a Cloud Specialist with a background in Silicon Valley, which aims to simulate Cloud projects required by companies and prepare professionals for the real world.

Cloud Projects

Learn in practice with simulations of Cloud projects based on real-world business scenarios.

Cloud Certification

Get the most in-demand Cloud Certifications and be pursued by recruiters.

Non-technical skills

Develop soft-skills, strategic vision and positioning to increase your visibility and earn more.

Private Community

Network with thousands of IT Professionals spread globally over 5 continents.

Follow-up

Be supported in your Bootcamp Cloud Projects by a team of Cloud Architects.

Certificate

Receive a Certificate of Completion for each completed Bootcamp and generate visibility on LinkedIn.

IMPACT

OVER **2500 ACTIVE STUDENTS**
SPREAD OVER **5 CONTINENTS**
AROUND THE GLOBE

OUR STUDENTS WORK
IN LARGE COMPANIES SUCH AS...

aws itaú IBM

avanade Deloitte. ORACLE stone BOSCH

MULTICLOUD & DEVOPS
BOOTCAMP

MultiCloud & DevOps Career Acceleration Program

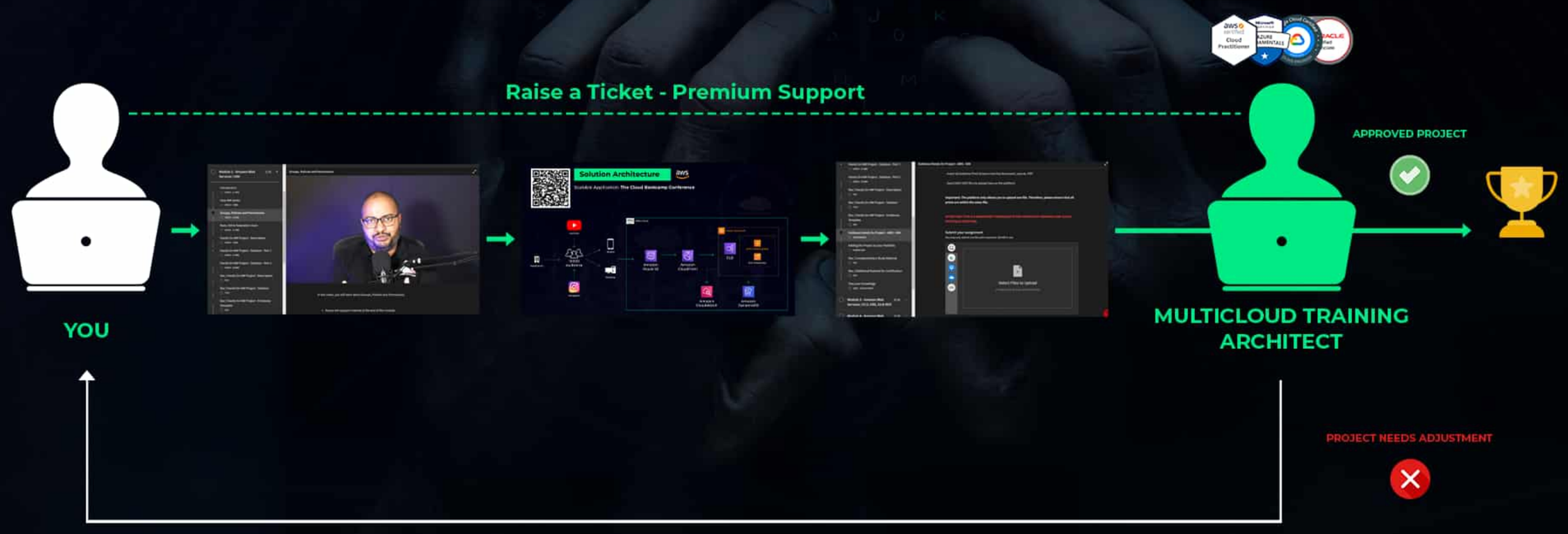
THE 3 PILLARS

CLOUD CAREER STRATEGY

MULTICLOUD & DEVOPS SPECIALIZATION

BEHAVIORAL SKILLS

YOUR EXPERIENCE WITH 1-ON-1 PREMUIM SUPPORT AND PROJECT'S APPROVAL



PROGRAM CURRICULUM
MULTCLOUD & DEVOPS BOOTCAMP

MULTICLOUD & DEVOPS
BOOTCAMP

MultiCloud & DevOps Career Acceleration Program

LEARN MULTICLOUD & DEVOPS WITH HANDS-ON REAL-WORLD PROJECTS

AWS BOOTCAMP

AZURE BOOTCAMP

GOOGLE CLOUD BOOTCAMP

ORACLE CLOUD BOOTCAMP

DEVOPS CLOUD BOOTCAMP

ABOUT THE PROGRAM

HIGH DEFINITION CONTENT

High Definition videos
(Netflix style)

WEEKLY LIVE MEETINGS

The content stays recorded
for you to watch whenever you want.

CHALLENGES AND PROJECTS

Weekly schedule with projects
and hands-on challenges

(AWS) AMAZON WEB SERVICES BOOTCAMP

Cloud Projects and Hands-On Challenges Based on Real Scenarios.

MODULES

Module 1: Overview + Hands-On

Module 2: IAM + Hands-On

Module 3: EC2, EBS, S3 & RDS + Hands-On Project

Module 4: CloudFront, Auto Scaling, Elastic Beanstalk, Cloud Watch + Hands-On Project

Module 5: Responsibility Models, AWS Shield & WAF, Inspector, Trusted Advisor, Cloud Trail, AWS Systems Manager + Hands-On Project

Module 6: Pricing & Billing + Hands-On Project

Module 7: Final Project

6 Quizzes | 6 Projects | 47+ Hours

AMZON WEB SERVICES (AWS)

Amazon Web Services (AWS) é o líder global de Computação na Nuvem que se destaca pela obsessão no cliente. Grandes empresas e startups como Gol Linhas Aéreas, Easytaxi e Nubank usam a infra-estrutura da AWS.

MODULE 1

- Overview
- AWS Architecture
- AWS Core Services
- AWS Free Offers
- Hands-on Creating an AWS Account and Billing Alert
- AWS Console Tour
- Quiz

MODULE 2

- Introduction
- How IAM works
- Groups, Policies and Permissions
- Root, IAM & Federation Users
- Hands On IAM Project - Description
- Hands On IAM Project - Solution - Part 1
- Hands On IAM Project - Solution - Part 2
- Quiz

MODULE 3

- Introduction
- AWS Elastic Compute Cloud (EC2)
- AWS Elastic Block Store (EBS)
- AWS Simple Storage Service (S3)
- AWS Relational Database Service (RDS)
- Amazon DynamoDB (NoSQL) e Redshift (OLAP)
- Hands-On Project - Description
- Hands-On Project - Planning
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3
- Quiz

MODULE 4

- Introduction
- Amazon CloudFront
- Amazon Auto Scaling & Elastic Load Balancer (ELB)
- Amazon Cloud Watch
- Amazon Elastic Beanstalk
- Hands-On Project Elastic Beanstalk - Description
- Hands-On Project Elastic Beanstalk - Solution - Part 1
- Hands-On Project Elastic Beanstalk - Solution - Part 2
- Hands-On Project Elastic Beanstalk - Solution - Part 3
- Quiz

MODULE 5

- Introduction
- Shared Responsibility Model
- Amazon WAF & Shield
- Amazon Inspector
- AWS Trusted Advisor
- AWS CloudTrail
- AWS Systems Manager
- Hands-On Project DevSecOps - Description
- Hands-On Project DevSecOps - Solution - Part 1
- Hands-On Project DevSecOps - Solution - Part 2
- Quiz

MODULE 6

- Introduction
- AWS Budgets, Cost Explorer, Saving Plans
- AWS Support
- AWS Resource Groups & Tagging
- AWS Organizations & Consolidated Billing
- AWS Landing Zones
- AWS Quick Start
- Hands-On Project Executive Cost Presentation with AWS - Solution
- Quiz

MODULE 7

- Final Project - Description
- Final Project - Solution - Part 1
- Final Project - Solution - Part 2

CLOUD MIGRATION PROJECT - PART 1

Migration to AWS: Automated migration of users from on-premises IT staff to AWS using AWS Identity and Access Management (IAM).

Solution Architecture

On-Premises Migration to AWS - Part 1

Technology used: AWS IAM, AWS CLI e Shell Script

Cloud Project

Cloud Provider	Services & Technologies
Amazon AWS	AWS Identity and Access Management, Shell Script, AWS CLI, GitBash

CLOUD MIGRATION PROJECT - PART 2

Migration from an application server and database environment running in an Enterprise Data Center (on-premises) to a modern architecture running on AWS.

Solution Architecture

On-Premises Migration to AWS - Part 2

Technology used: AWS EC2, AWS RDS, MySQL e Python

Cloud Project

Cloud Provider	Services & Technologies
Amazon AWS	Amazon EC2, Amazon Virtual Private Cloud (VPC), Amazon RDS, Internet Gateway, MySQL

DEVSECOPS PROJECT

Deploying a set of EC2 instances using Terraform and configuring AWS Systems Manager making use of Amazon Simple Notification Service for automated installation of security agents.

Solution Architecture

DevSecOps - Infrastructure as code and Automation of a Security Agent Installation.

Technology used: AWS EC2, Systems Manager, AWS SNS, Terraform

Cloud Project

Cloud Provider	Services & Technologies
Amazon AWS	AWS Identity and Access Management, Amazon Virtual Private Cloud (VPC), Amazon EC2, Terraform, Amazon Simple Notification Service, AWS Systems Manager, GitBash, Visual Studio Code

PROJECT AROUND PRICING AND TCO

Preparation of Executive Presentation of Infrastructure costs for a SAP Migration project from On-Premises to AWS.

Solution Architecture

Executive Presentation: **SAP Migration to AWS Estimated Costs**

Technology used: AWS Pricing Calculator

Cloud Project

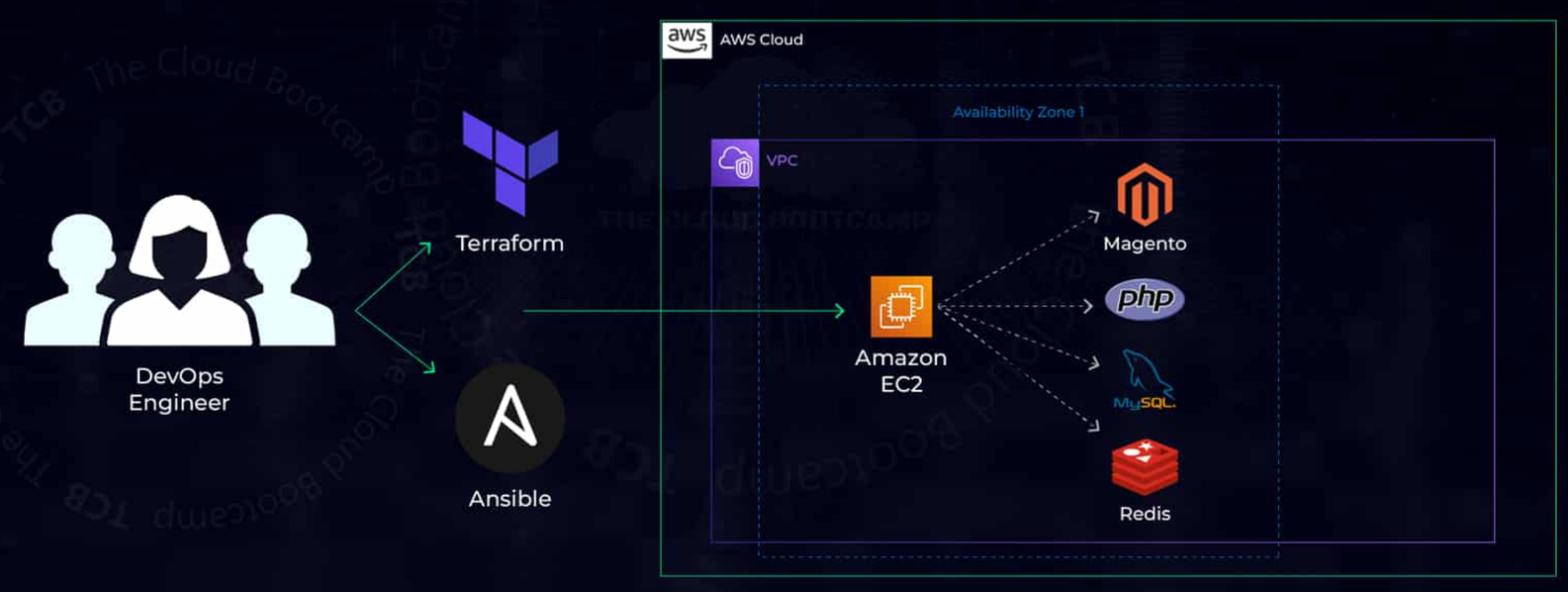
Cloud Provider	Services & Technologies
Amazon AWS	Pricing Calculator Microsoft Excel Microsoft Power Point

E-COMMERCE CLOUD PROJECT

Implementing an E-Commerce System on AWS in an automated way using Terraform and Ansible.

Solution Architecture

E-Commerce MVP deployment - **The Cloud Bootcamp Store**



Technology used: AWS EC2, Terraform, Ansible

Cloud Project

Cloud Provider	Services & Technologies
Amazon AWS	Amazon Virtual Private Cloud (VPC), Amazon EC2, Magento, Terraform, Redis, Ansible, MySQL

BOOTCAMP
MICROSOFT AZURE

Cloud Projects and Hands-On
Challenges Based on Real Scenarios.

MODULES

Module 1: Overview + Hands On

Module 2: IAM, Azure Active Directory & Security Services + Hands-On

Module 3: Virtual Machines, Scale Sets, App Service, Container, Kubernetes, Functions + Hands-On Project

Module 4: Azure Networking + Hands-On Project

Module 5: Azure Storage + Hands-On Project

Module 6: Azure Database + Hands-On Project

Module 7: Azure Solutions, Cost & Support + Hands-On Project

Module 8: Final Project

7 Quizzes | 7 Projects | 51+ Hours

MICROSOFT AZURE

Microsoft Azure is the vice leading global Cloud Computing, which offers MultiCloud interconnection with Oracle Cloud Infrastructure. Rolls-Royce, Heineken, and BMW are some examples of companies using Azure infrastructure.

MODULE 1

- Introduction
- Public Cloud, Private Cloud & Hybrid Cloud
- SaaS, PaaS and IaaS
- Cloud Economic Concepts
- Cloud Computing
- Azure Architecture
- Ways to Access Microsoft Azure
- Hands-On - Setting Up an Azure Account
- Azure Console Tour
- Quiz

MODULE 2

- Introduction
- Azure Active Directory and IAM Concepts
- Azure Firewall, Network Security Group & Application Security Group
- Key Vault
- Quiz

MODULE 3

- Introduction
- Azure Virtual Machines
- Azure App Service, Azure Container Instance & Azure Functions
- Kubernetes Concepts and Azure Kubernetes Service
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 4

-
- Azure Virtual Network
- Azure Load Balancer
- Azure Application Gateway
- Content Delivery Network (CDN)
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 5

- Introduction
- Azure Storage Account
- Azure Disk Storage
- Azure Files
- Azure Blob Storage
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 6

- Introduction
- Azure Cosmos DB
- Azure SQL Database
- Azure Database for MySQL & PostgreSQL
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 7

- Introduction
- Internet of Things (IoT)
- Big Data
- Artificial intelligence (AI)
- Azure Functions (Serverless)
- DevOps
- Azure Cost Management
- Pricing & TCO Calculator
- Azure Service Level Agreement (SLA) & Service Lifecycle
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 8

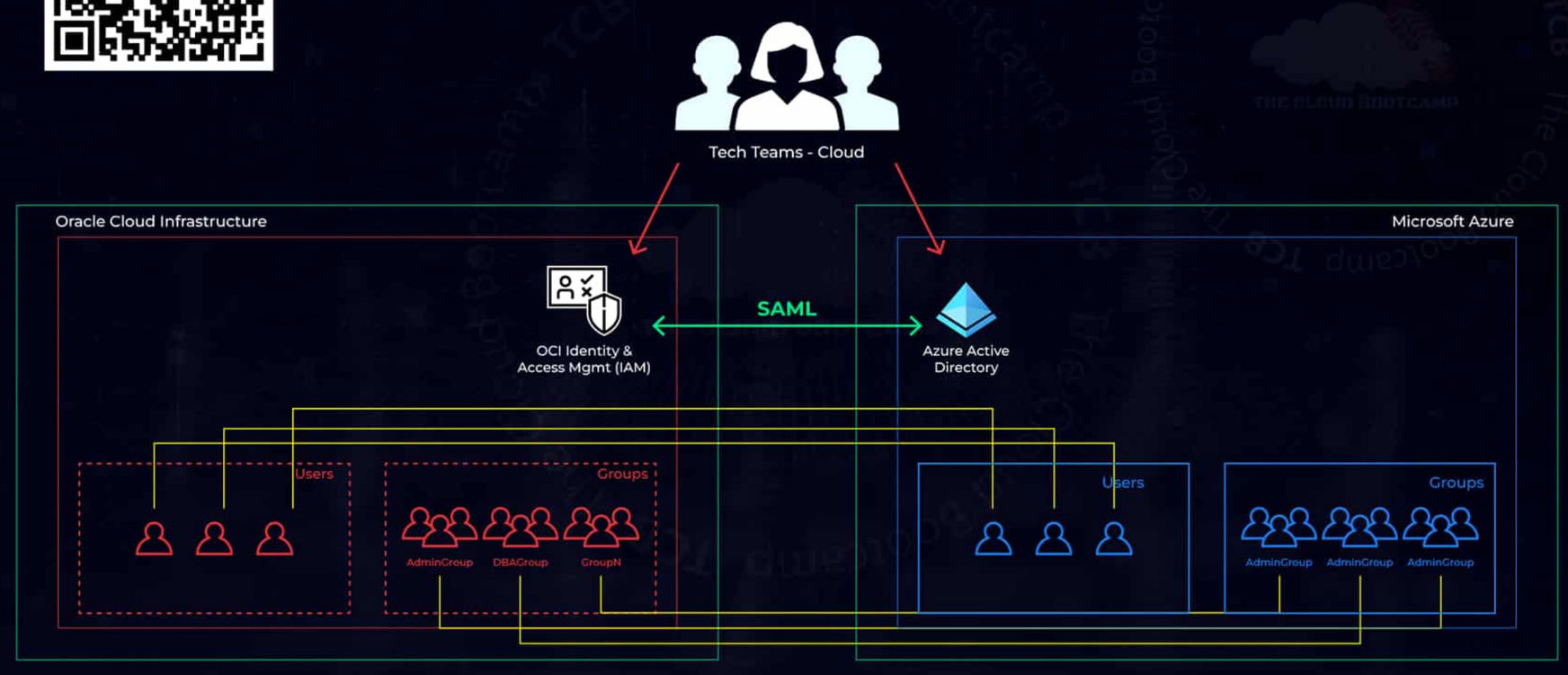
- Final Project - Description
- Final Project - Solution

MULTICLOUD PROJECT

Federation Service Implementation at an Enterprise using Microsoft Azure and Oracle Cloud Infrastructure in its MultiCloud Architecture for centralized IT staff authentication.

Solution Architecture

MultiCloud Federation – Microsoft Azure and Oracle Cloud Infrastructure – Single sign-on – Cloud Team Authentication



Technology used: Azure Active Directory, Oracle Cloud Infrastructure IAM

Cloud Project

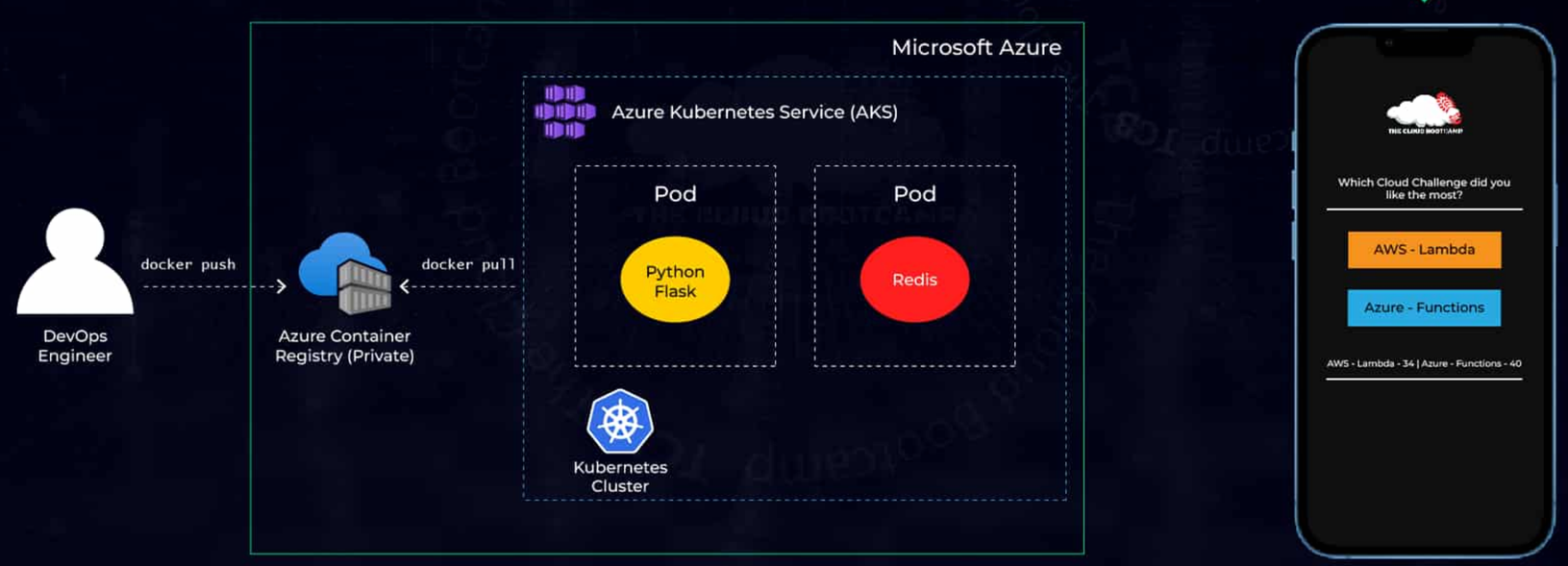
Cloud Provider	Services & Technologies
Microsoft Azure	Azure Active Directory
Oracle Cloud Infrastructure	OCI Identity & Access Mgmt (IAM)

KUBERNETES PROJECT

Implementation of a scalable application intended for MultiCloud Experience online event using Azure Kubernetes Services (AKS).

Solution Architecture

Azure Kubernetes Service (AKS) – MultiCloud Experience: **Voting App**



Technology used: Azure Kubernetes Services (AKS), Docker, Kubernetes

Cloud Project

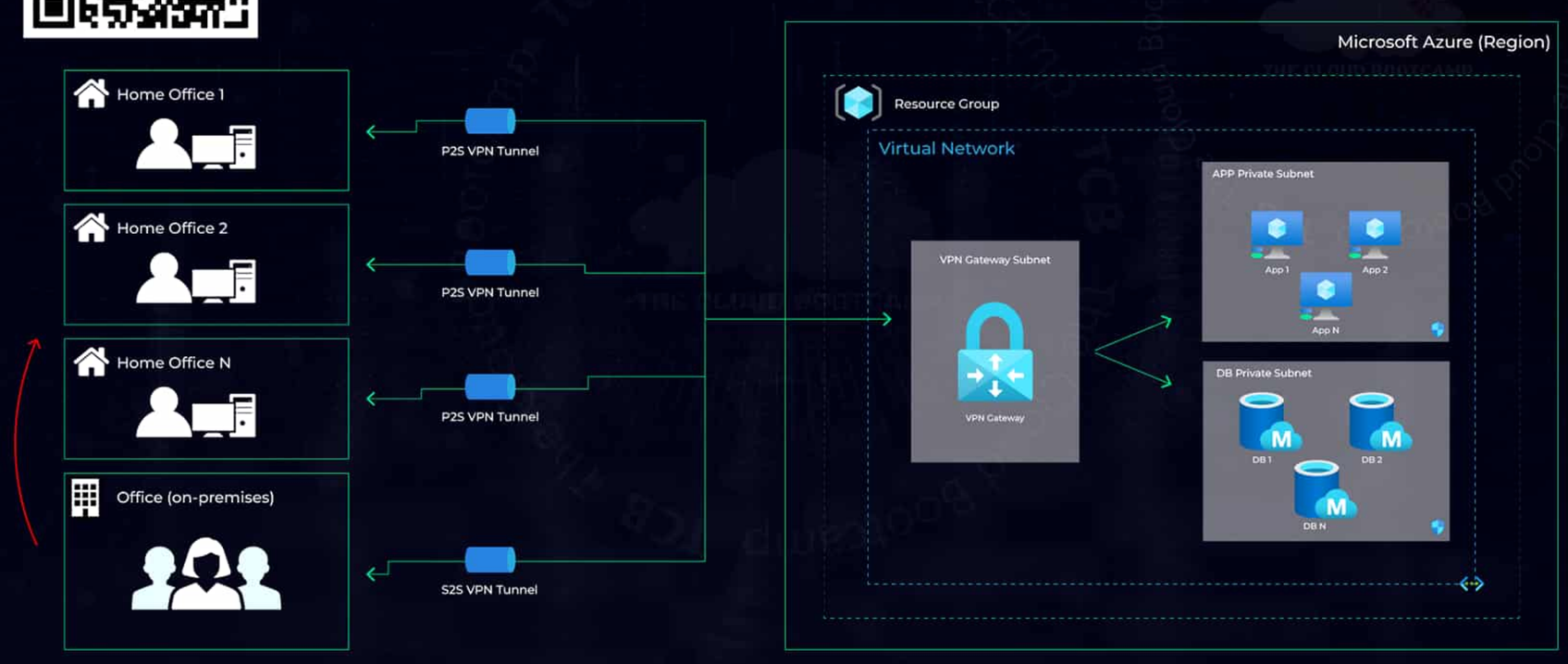
Cloud Provider	Services & Technologies
Microsoft Azure	Azure Container Registry (Private), Redis, Azure Kubernetes Service (AKS), Kubernetes Cluster, Docker, Python Flask

PANDEMIC HOME OFFICE PROJECT

Implementation of a Home Office solution for enterprise in pandemic scenario using Microsoft Azure VPN Gateway.

Solution Architecture

Home Office Solution during COVID-19 Pandemic
with Microsoft Azure VPN Gateway



Technology used: Azure VPN Gateway, Azure VNET, Azure VPN Client, Azure VM

Cloud Project

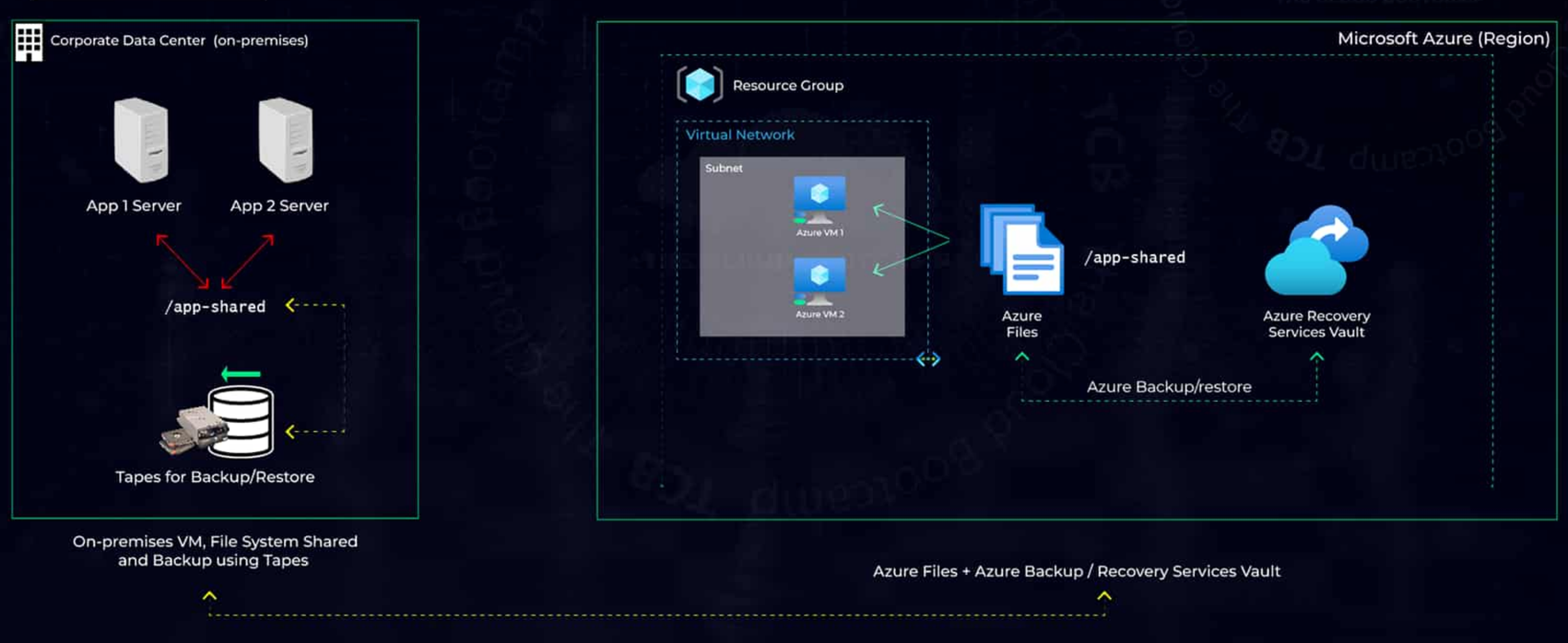
Cloud Provider	Services & Technologies
Microsoft Azure	Resource Group, VPN Azure, Virtual Network, VPN Gateway, Virtual Machine

MODERNIZATION PROJECT

Modernization of On-Premises Infrastructure to Microsoft Azure with implementation of Azure Backup, Recovery Services Vault and Azure Files.

Solution Architecture

Infrastructure Modernization: From On-prem to Azure using Azure Backup Solution



Technology used: Azure VM, Azure Backup, Recovery Services Vault and Azure Files.

Cloud Project

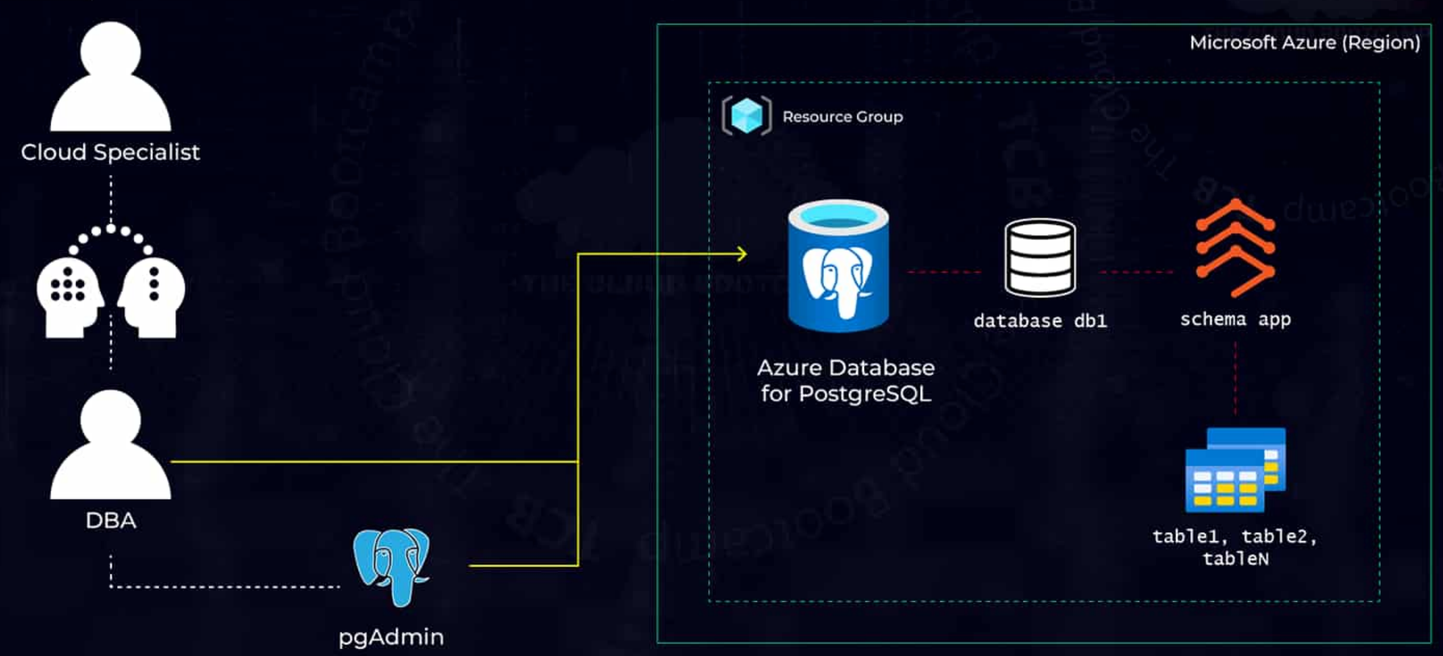
Cloud Provider	Services & Technologies
Microsoft Azure	Azure Files, Azure Backup, Virtual Network, Resource Group, Azure Recovery Services Vault, Virtual Machine

KNOWLEDGE TRANSFER PROJECT

Mentoring for On-Premises DBA and PostgreSQL Implementation on Microsoft Azure.

Solution Architecture

On-premises DBA Mentoring and PostgreSQL Deployment in the Microsoft Azure



Technology used: Azure Database, PostgreSQL, PgAdmin

Cloud Project

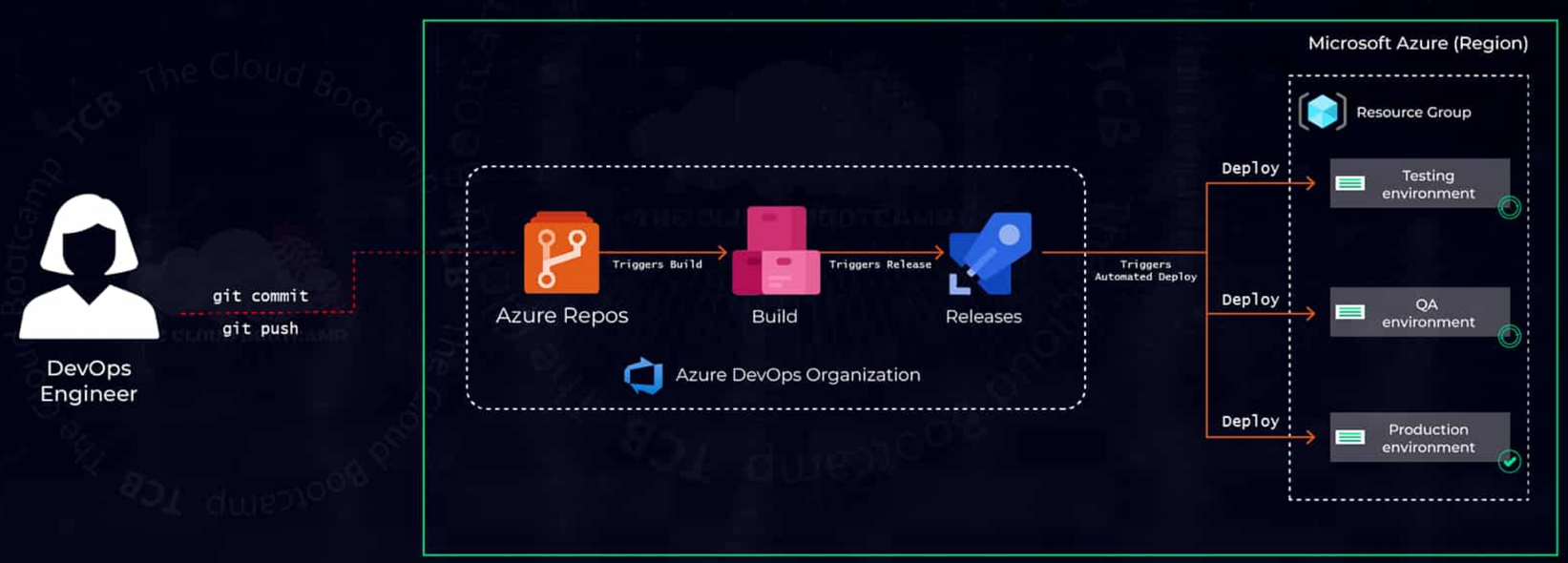
Cloud Provider	Services & Technologies
Microsoft Azure	Resource Group, Azure Database for PostgreSQL, Schema App

DEVOPS PROJECT

Serverless Website implementation 100% automated using Azure DevOps Repos & Pipelines (CI/CD) in multiple environments (production, homologation, development).

Solution Architecture

Serverless website deployment 100% automated using
Azure DevOps Repos & Pipelines (CI/CD) in multiple environments



Technology used: Azure DevOps, Azure Pipelines, Azure Repo, Git.

Cloud Project

Cloud Provider	Services & Technologies
Microsoft Azure	Azure Repos, Azure Artifacts, Azure Pipelines, Resource Group, GitHub, Azure DevOps

(GCP) GOOGLE CLOUD PLATFORM BOOTCAMP

Cloud Projects and Hands-On Challenges Based on Real Scenarios.

MODULES

Module 1: Overview + Hands On

Module 2: Google Cloud IAM + Hands-On Project

Module 3: Google Cloud Network + Hands-On Project

Module 4: Google Cloud Compute + Hands-On Project

Module 5: Google Cloud Storage + Hands-On Project

Module 6: Google Cloud Load Balancing + Hands-On Project

Module 7: Google Cloud Database Solutions + Hands-On Project

Module 8: Pricing, GCM & Management + Hands-On Project

Module 9: Final Project

8 Quizzes | 8 Projects | 55+ Hours

GOOGLE CLOUD PLATFORM

Google Cloud is the world's third largest Cloud Computing provider, serving thousands of startups and large companies around the world, including Google itself.

MODULE 1

- Introduction
- GCP Architecture
- GCP Core Services
- Hands-On - Setting Up a GCP Account
- Hands-On - Setting up Billing Alert
- GCP Console Tour
- Quiz

MODULE 2

- Introduction
- Cloud Project
- Service e Billing Account
- Cloud SDK
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 3

- Introduction
- VPC, CIDR'S, Subnet's and VPC Default
- Ephemeral x Static IP Address
- Firewall and Routes
- Hybrid connectivity
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Quiz

MODULE 4

- Introduction
- Google Compute Engine (GCE)
- Google App Engine (GAE)
- Google Kubernetes Engine (GKE)
- Google Cloud Functions (GCF)
- Google Cloud Run (GCR)
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3
- Quiz

MODULE 5

- Introduction
- Cloud Storage
- Cloud Storage: Lifecycle and SDK
- Persistent Disk
- Cloud Filestore
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Quiz

MODULE 6

- Introduction
- Instance Templates & Groups
- Cloud Load Balancing - Part 1
- Cloud Load Balancing - Part 2
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Quiz

MODULE 7

- Introduction
- Cloud SQL
- Cloud Spanner
- Cloud Bigtable
- Firestore
- BigQuery
- Memorystore
- Cloud Pub/Sub
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Quiz

MODULE 8

- Introduction
- Pricing
- Cloud Marketplace
- Cloud Deployment Manager
- Cloud Operations
- Hands-on Deployment Manager - Description
- Hands-on Deployment Manager - Solution
- Quiz

MODULE 9

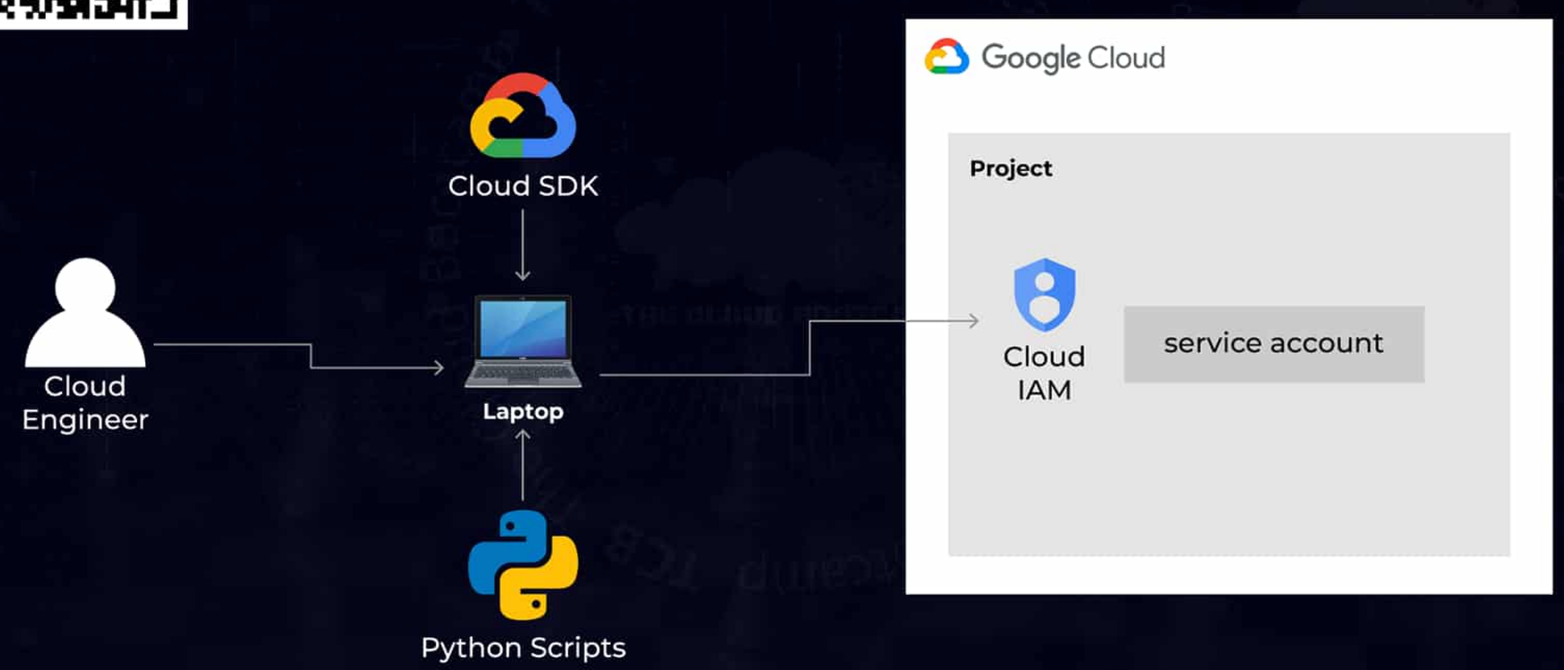
- Final Project - Description
- Final Project - Solution

AUTOMATION PROJECT WITH PYTHON

Automation on Google Cloud using Python - IAM Service Accounts.

Solution Architecture

Automation using Python on Google Cloud IAM Service Accounts - Part 1



Technology used: Google Cloud Service Accounts, Python

Cloud Project

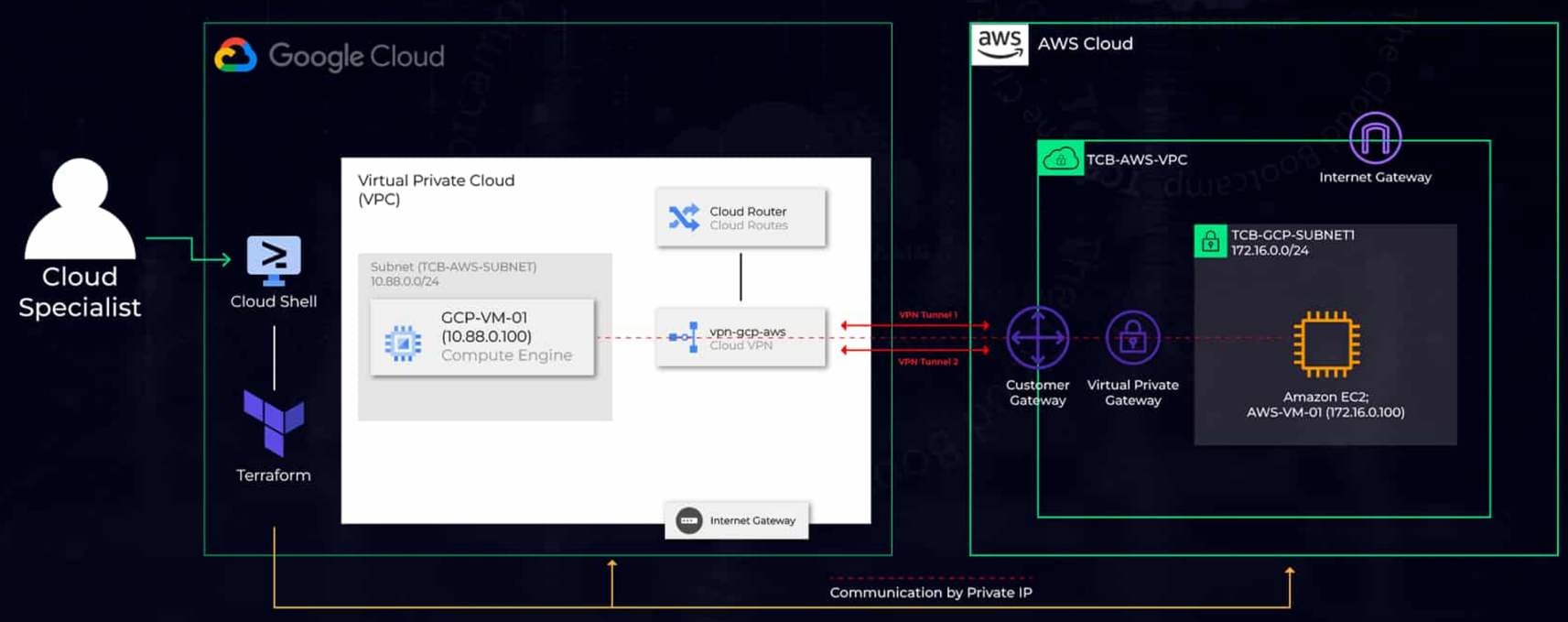
Cloud Provider	Services & Technologies
Google Cloud	Python Scripts Cloud SDK

MULTICLOUD PROJECT

Implementation of private communication in MultiCloud environment (AWS and GCP) in a 100% automated way using Terraform.

Solution Architecture

Implementation of private communication in MultiCloud environment (AWS and GCP) in a 100% automated way using Terraform.



Technology used: Google Cloud VPC, VPN, Cloud Router, AWS VPC, Terraform

Cloud Project

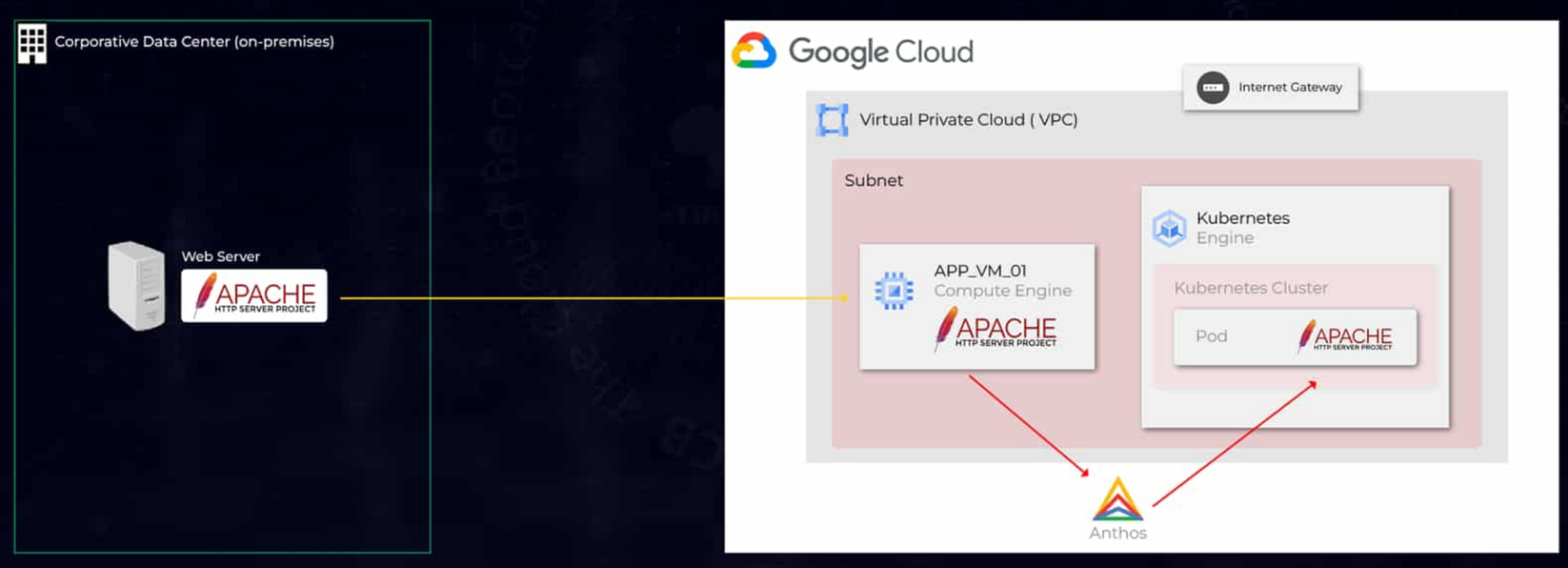
Cloud Provider	Services & Technologies
aws	Google Cloud VPN
Google Cloud	Amazon Virtual Private Cloud (VPC)
	Virtual Private Cloud - VPC
	Terraform
	Cloud Router

LIFT & SHIFT + MODERNIZATION PROJECT

Lift & Shift + Application Modernization: Converting a legacy application to run in containers on Google Kubernetes Engine (GKE) using Anthos.

Solution Architecture

Lift & Shift + App Modernization: Converting a Legacy Application to run in containers in the Google Kubernetes Engine (GKE) using Anthos.



Technology used: Google Kubernetes Engine (GKE), Docker, Kubernetes, Anthos

Cloud Project

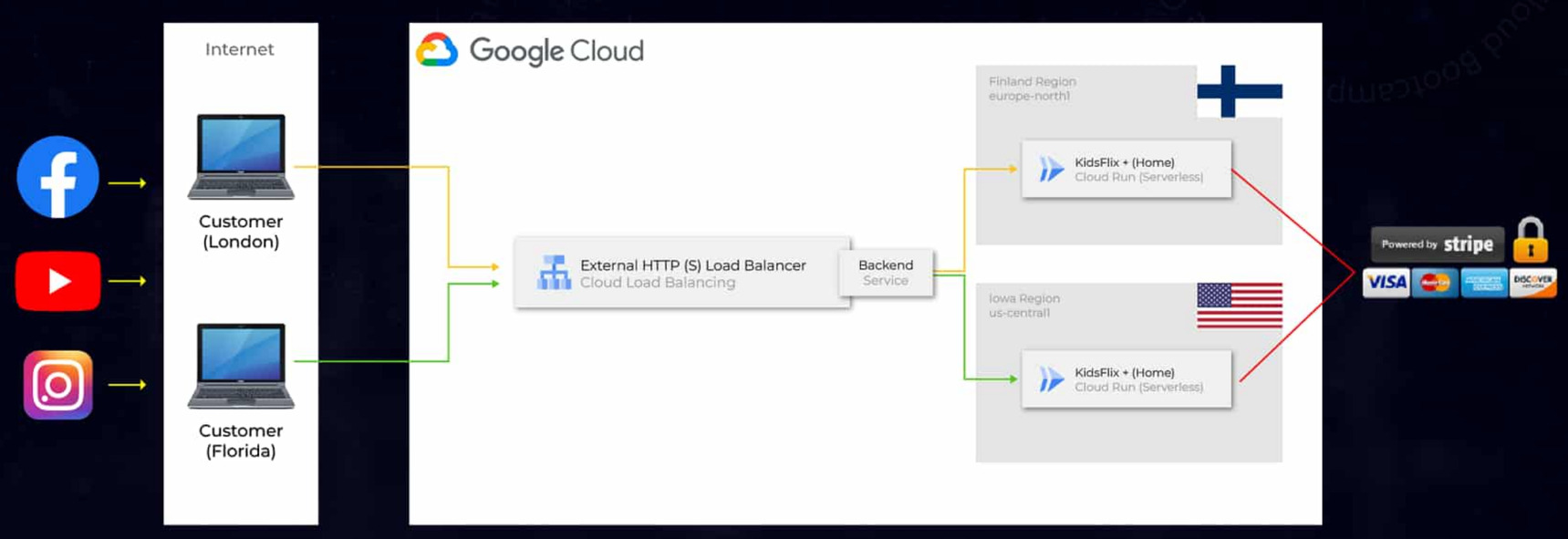
Cloud Provider	Services & Technologies
Google Cloud	Google Kubernetes Engine (GKE), Kubernetes, Anthos, Docker

LOAD BALANCING PROJECT

Implementation of Cloud Load Balancing between Regions in the US and Europe for global high availability and intelligent traffic distribution based on user proximity and location.

Solution Architecture

Implementation of Cloud Load Balancing between Regions in the US and Europe for global high availability and intelligent traffic distribution based on user proximity and location.



Technology used: Google Cloud Load Balancing, Docker, Google Cloud Run

Cloud Project

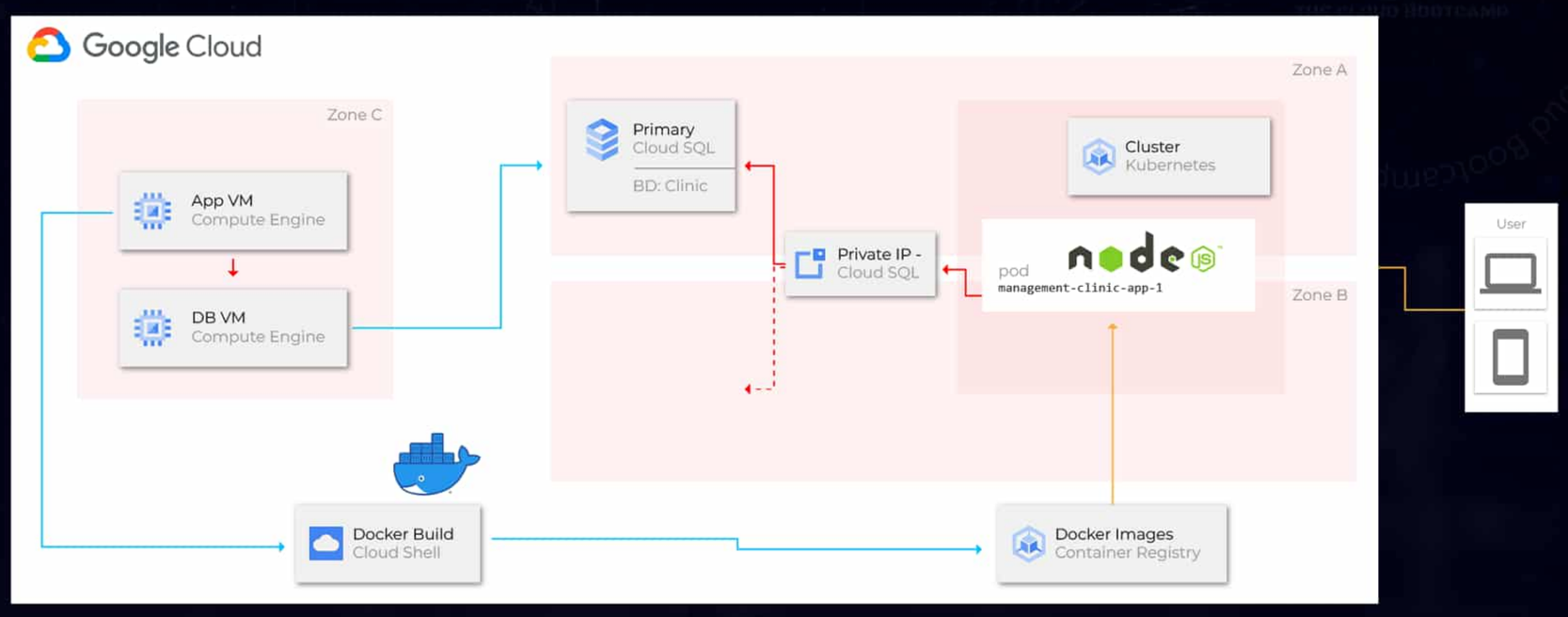
Cloud Provider	Services & Technologies
Google Cloud	Google Cloud Run, Google Cloud Load Balancing, Docker

KUBERNETES PROJECT

Migration of Standalone Application and Database in VM (Google Compute Engine) to modern containerized Architecture, using Google Kubernetes Engine managed services (APP) + Cloud SQL (DB) in HA.

Solution Architecture

Migration of Standalone Application and Database in VM (Google Compute Engine) to modern containerized Architecture, using Google Kubernetes Engine managed services (APP) + Cloud SQL (DB) in HA.



Technology used: Google Kubernetes Engine, Docker, Cloud SQL

Cloud Project

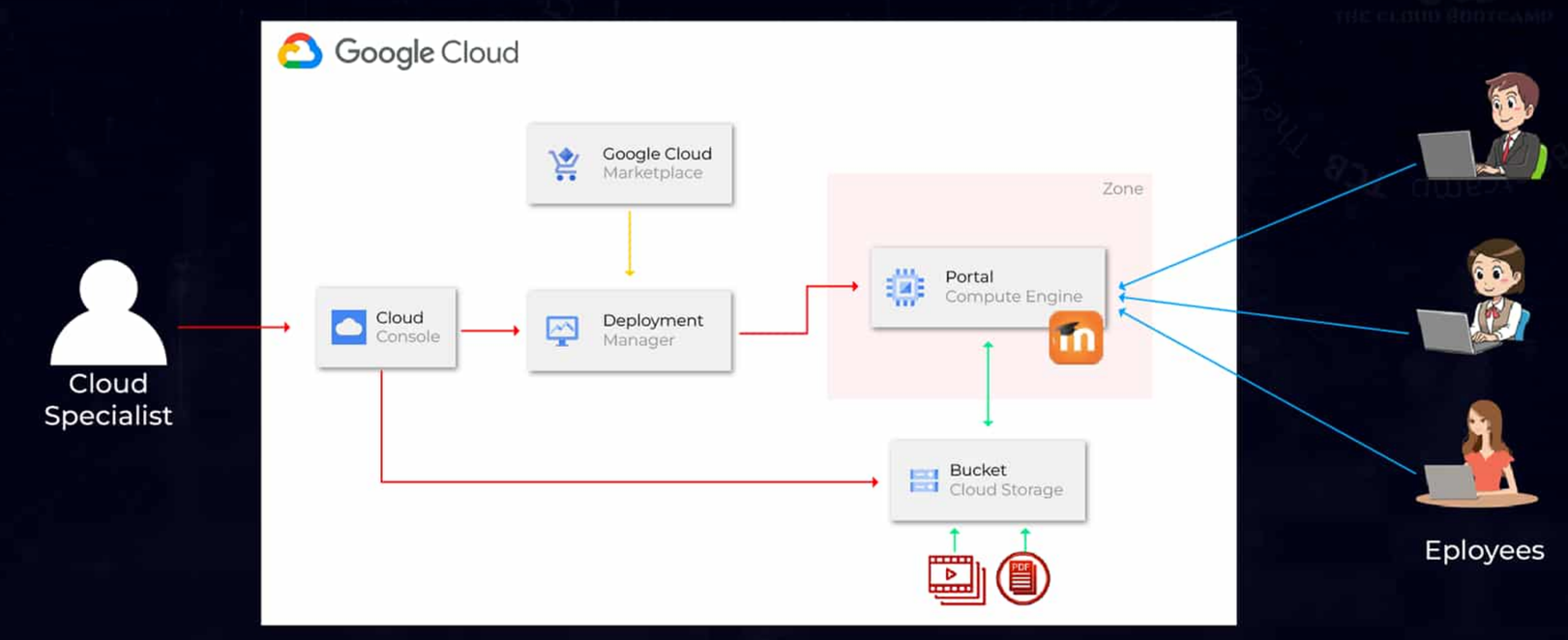
Cloud Provider	Services & Technologies
Google Cloud	Google Kubernetes Engine (GKE), Cloud SQL, Docker

GOOGLE CLOUD TRAINING PORTAL PROJECT

Implementation of Corporate Training Portal on Google Cloud Platform using Deployment Manager, Google Compute Engine & Cloud Storage.

Solution Architecture

Deployment of a Corporate Training Portal on GCP using Deployment Manager, GCE & Cloud Storage - Part 1



Technology used: Google Cloud Deployment Manager, Google Cloud Compute, Cloud Storage, Moodle.

Cloud Project

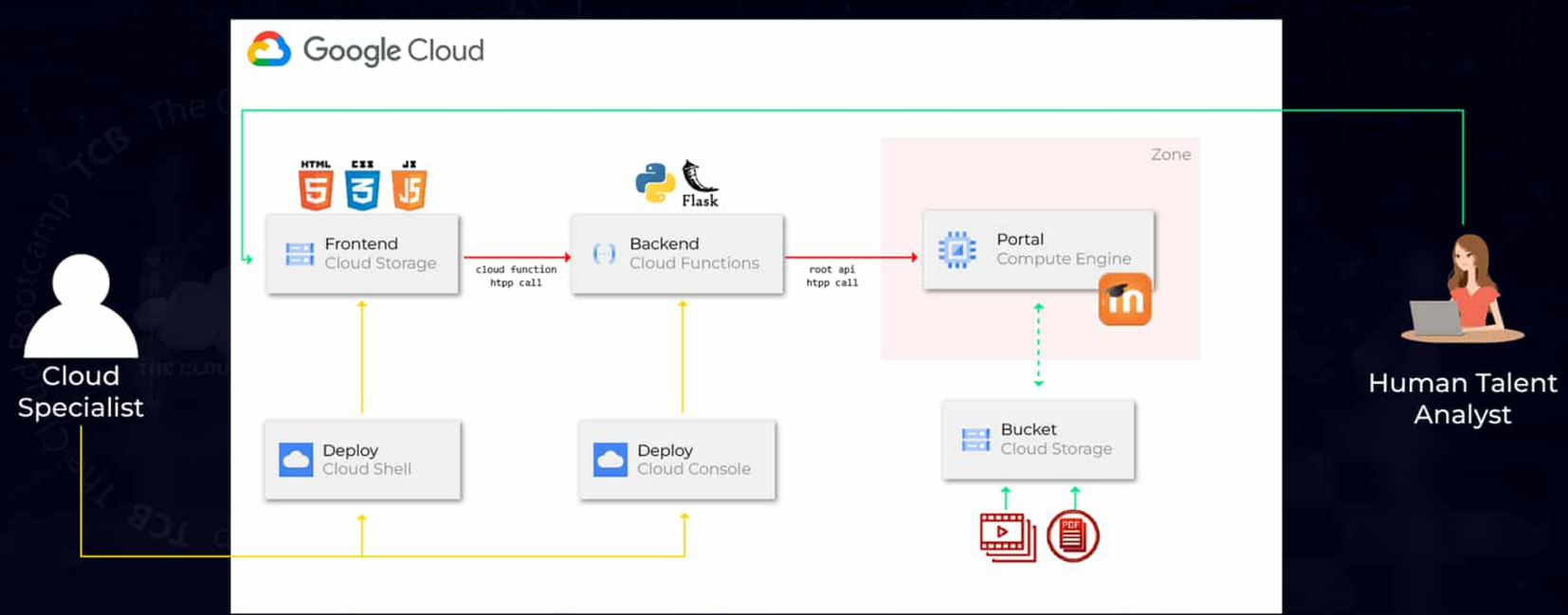
Cloud Provider	Services & Technologies
Google Cloud	Google Cloud Deployment Manager, Google Compute Engine, Moodle, Cloud Storage

SERVERLESS PROJECT

Automation of a talent onboarding web application using HTML/CSS/JS/BS (Frontend) and Python Flask (Backend) with cloud storage and Cloud Functions 100% Serveless - Part 2

Solution Architecture

Automation of talent onboarding web application using HTML/CSS/JS/BS (Frontend) and Python Flask (Backend) with cloud storage and cloud functions 100% servless - Part 2



Technology used: Cloud Functions, HTML/CSS/JS, Python Flask

Cloud Project

Cloud Provider	Services & Technologies
Google Cloud	Cloud Functions, Python Flask, HTML, CSS, JS

(OCI) ORACLE CLOUD INFRASTRUCTURE BOOTCAMP

Cloud Projects and Hands-On Challenges Based on Real Scenarios.

MODULES

Module 1: Overview + Hands On

Module 2: OCI IAM + Hands-On Project

Module 3: OCI Networking + Hands-On Project

Module 4: OCI Compute + Hands-On Project

Module 5: OCI Storage + Hands-On Project

Module 6: OCI Databases + Hands-On Project

Module 7: Security, SLA, Support and Pricing + Hands-On Project

Module 8: Final Project

6 Quizzes | 6 Projects | 55+ Hours

ORACLE CLOUD INFRASTRUCTURE

Oracle Cloud Infrastructure is Oracle's second generation cloud, which is being rapidly adopted by large companies around the world such as Mazda, 7-Eleven, Zoom, TikTok, and others.

MODULE 1

- Introduction
- What is OCI?
- OCI Certifications
- Cloud Computing Concepts
- OCI Architecture
- OCI Core Services
- Hands-On - Setting Up an OCI Account
- OCI Console Tour
- Quiz

MODULE 2

- Introduction
- IAM
- Compartments
- Policies
- Hands On IAM
- Hands-On Project - Description
- Hands-On Project - Solution
- Quiz

MODULE 3

- Introduction
- VCN, Subnet, Security Lists and Route Table
- Hands On VCN, Subnet, Security Lists and Route Table
- Internet and NAT Gateway
- DRG - Dynamic Routing Gateway
- VCN - Peering
- Service Gateway
- Load Balancer
- Load Balancer on Console
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3
- Quiz

MODULE 4

- Introduction
- Bare Metal and Virtual Machine
- Virtual Machine on Console
- Boot Volume
- Instance Configurations & Pool
- Functions & OKE
- Hands-On Project - Description
- Load Balancer
- Load Balancer on Console
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3
- Quiz

MODULE 5

- Introduction
- Block Storage
- Block Storage on Console
- File Storage
- File Storage on Console
- Object Storage
- Object Storage on Console
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3
- Quiz

MODULE 6

- Introduction
- DB Systems Bare Metal
- DB Systems Virtual Machine
- DB Systems RAC
- DB Systems Exadata
- DB Systems on Console
- Autonomous Database
- Autonomous Database on Console
- Connectiong on Autonomous Database
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3
- Hands-On Project - Solution - Part 4
- Quiz

MODULE 7

- Introduction
- Security
- SLA
- Support
- Pricing
- Security, SLA, Support and Pricing on Console
- Quiz

MODULE 8

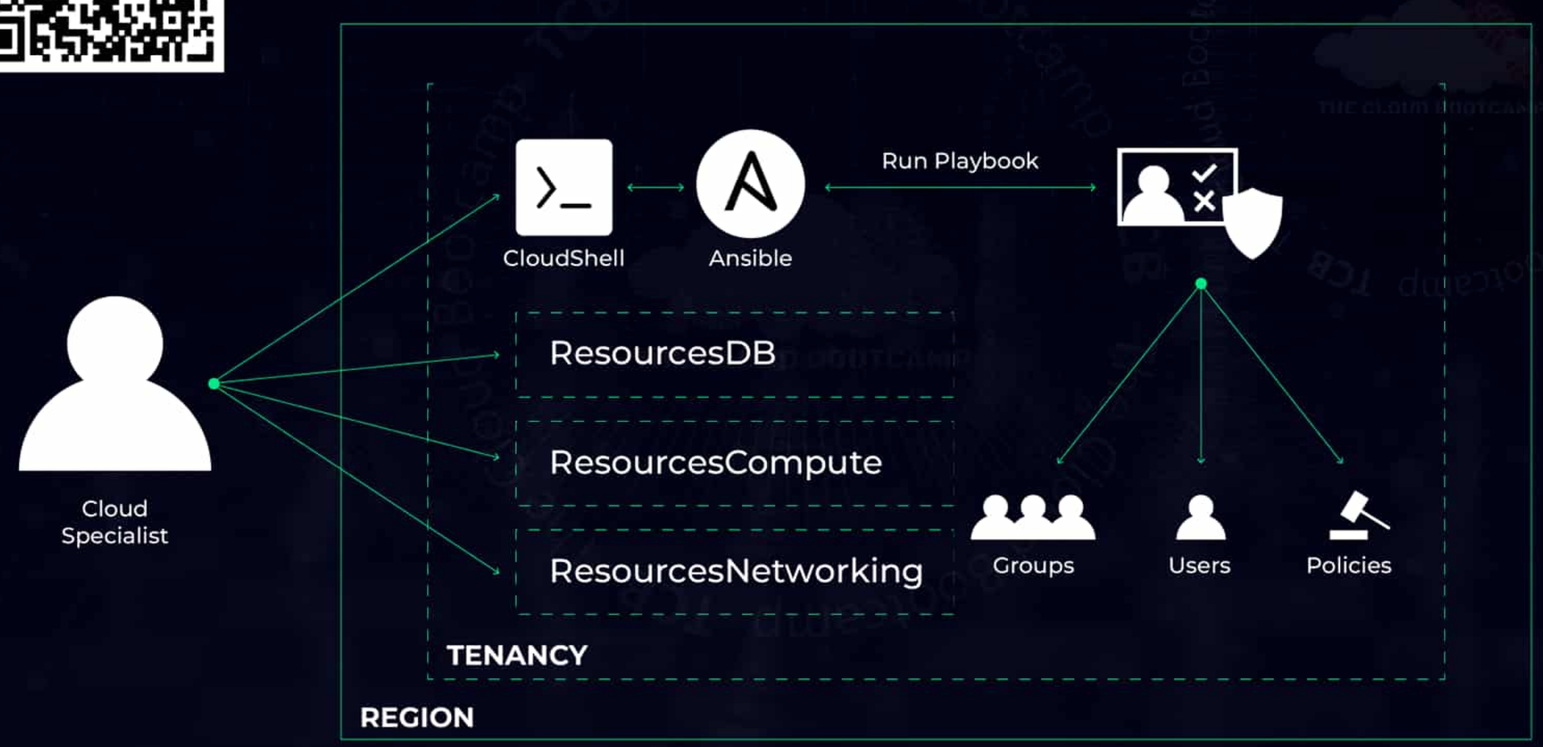
- Final Project - Description
- Final Project - Solution - Part 1
- Final Project - Solution - Part 2
- Final Project - Solution - Part 3

AUTOMATION PROJECT WITH ANSIBLE

100% automated implementation of users, groups, and policies using Ansible and Cloud Shell.

Solution Architecture

Deploying Users, Groups And Policies In A 100% Automated Way Using Ansible And Cloud Shell.



Technology used: Oracle Cloud Infrastructure IAM, Cloud Shell, Ansible

Cloud Project

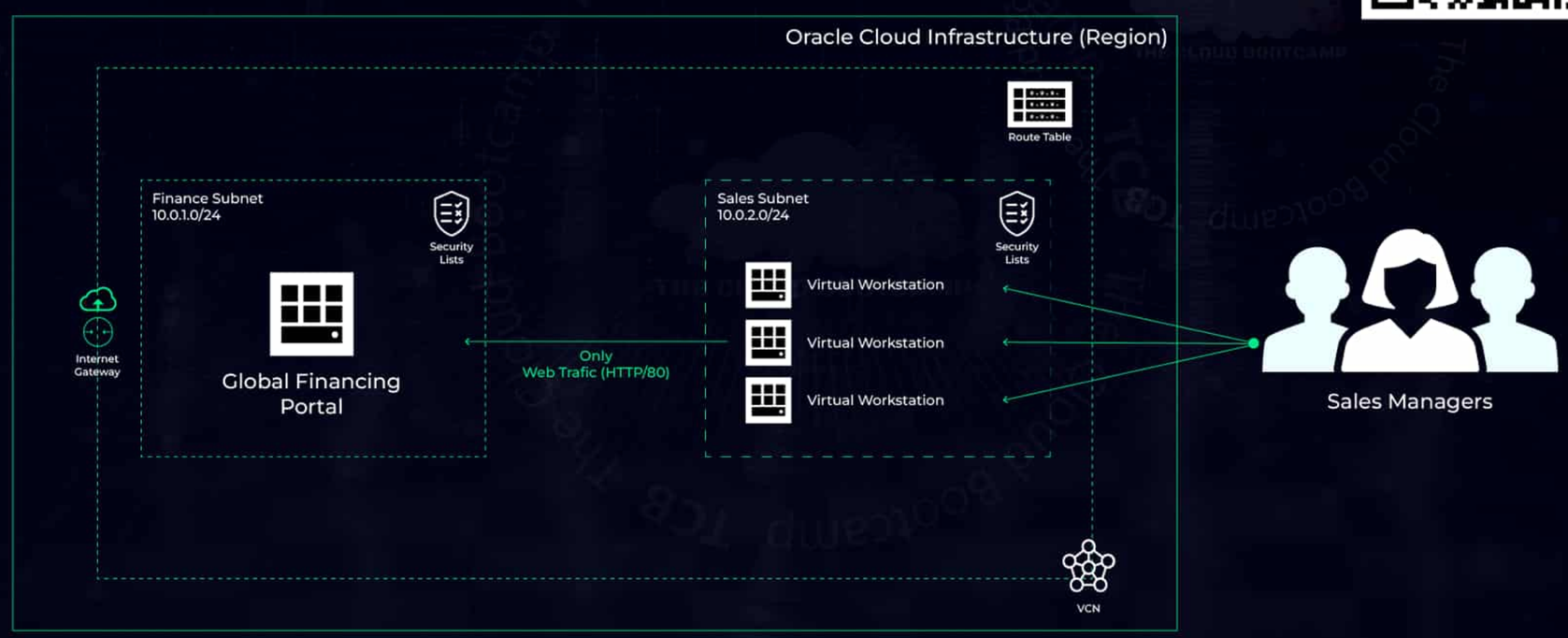
Cloud Provider	Services & Technologies
Oracle Cloud Infrastructure	OCI Cloud Shell Ansible OCI Identity & Access Mgmt (IAM)

NETWORK SECURITY PROJECT

Implementation of network communication control in Oracle Cloud Infrastructure with Virtual Cloud Network (VCN), distinct subnets and security lists with specific rules for each subnet.

Solution Architecture

Deployment Of Network Communication Control In Oracle Cloud Infrastructure with Virtual Cloud Network (VCN), Distinct Subnets And Security Lists With Specific Rules Foreach Subnet.



Technology used: Oracle Cloud Infrastructure Virtual Cloud Network, Compute Instance

Cloud Project

Cloud Provider	Services & Technologies
Oracle Cloud Infrastructure	OCI Virtual Cloud Network (VCN), OCI Security Lists

INFRASTRUCTURE-AS-CODE PROJECT

Infrastructure as Code + Pipeline: Deploy network and compute resources in Oracle Cloud Infrastructure in a 100% automated way using Github, Terraform Cloud and Terraform IAC.

Solution Architecture

Infrastructure As Code + Pipeline: Deployment of Network Resource and Compute in the OCI in a 100% automated way using GitHub, Terraform Cloud and Terraform IaC.

Technology used: Oracle Cloud Infrastructure VCN, Compute Engine, GitHub, Terraform Cloud, Terraform.

Cloud Project

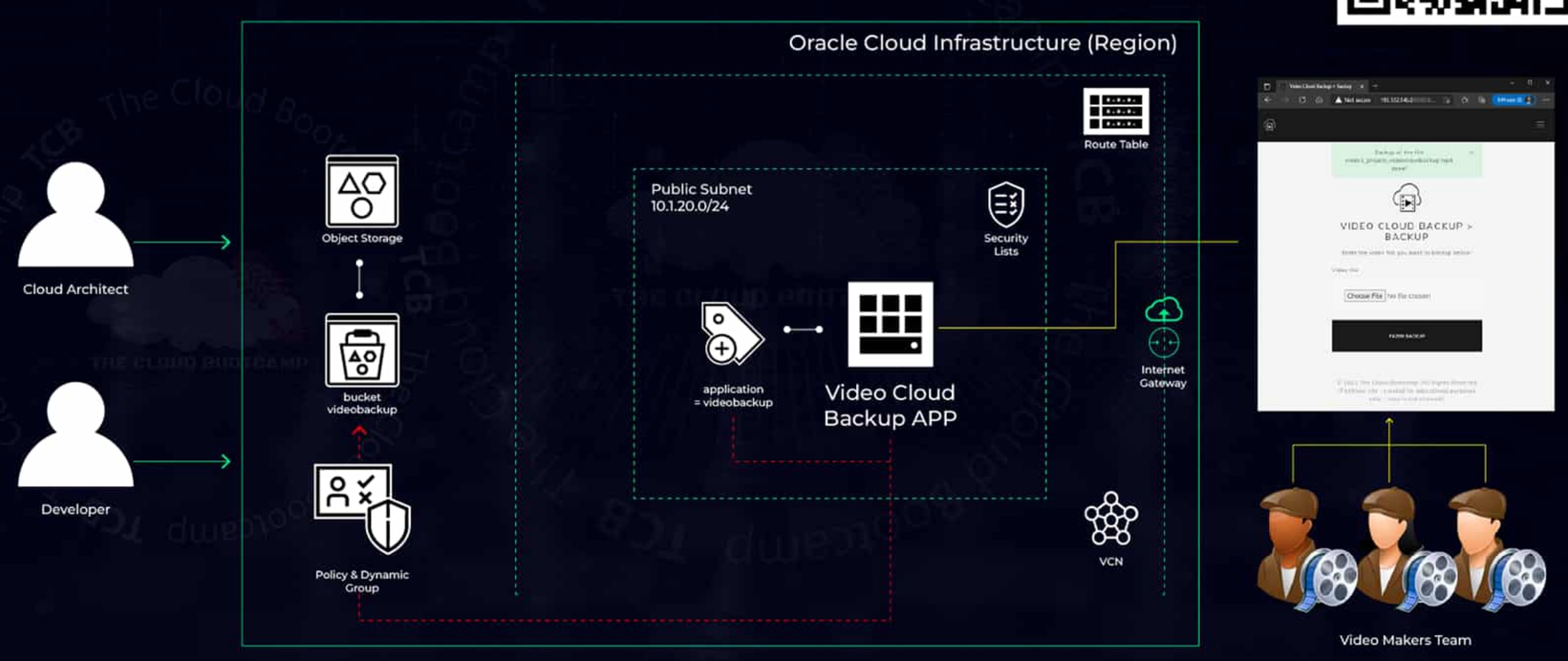
Cloud Provider	Services & Technologies
Oracle Cloud Infrastructure	OCI Virtual Cloud Network (VCN), GitHub, OCI Compute, Terraform

CLOUD SDK PROJECT

Implementation of (Web) video cloud backup Application integrated with Oracle Cloud Infrastructure Python SDK for uploading videos in private Object Storage bucket, and Instance Principals with Dynamic Groups for completely "Keyless" API authentication and Authorization.

Solution Architecture

Deployment of a Web Video Backup Application integrated with OCI Python SDK to allow upload of videos in the Private Bucket (Object Storage), using Instance Principals (Dynamic Groups) for Authentication and Authorization of the API - Totally "Keyless".



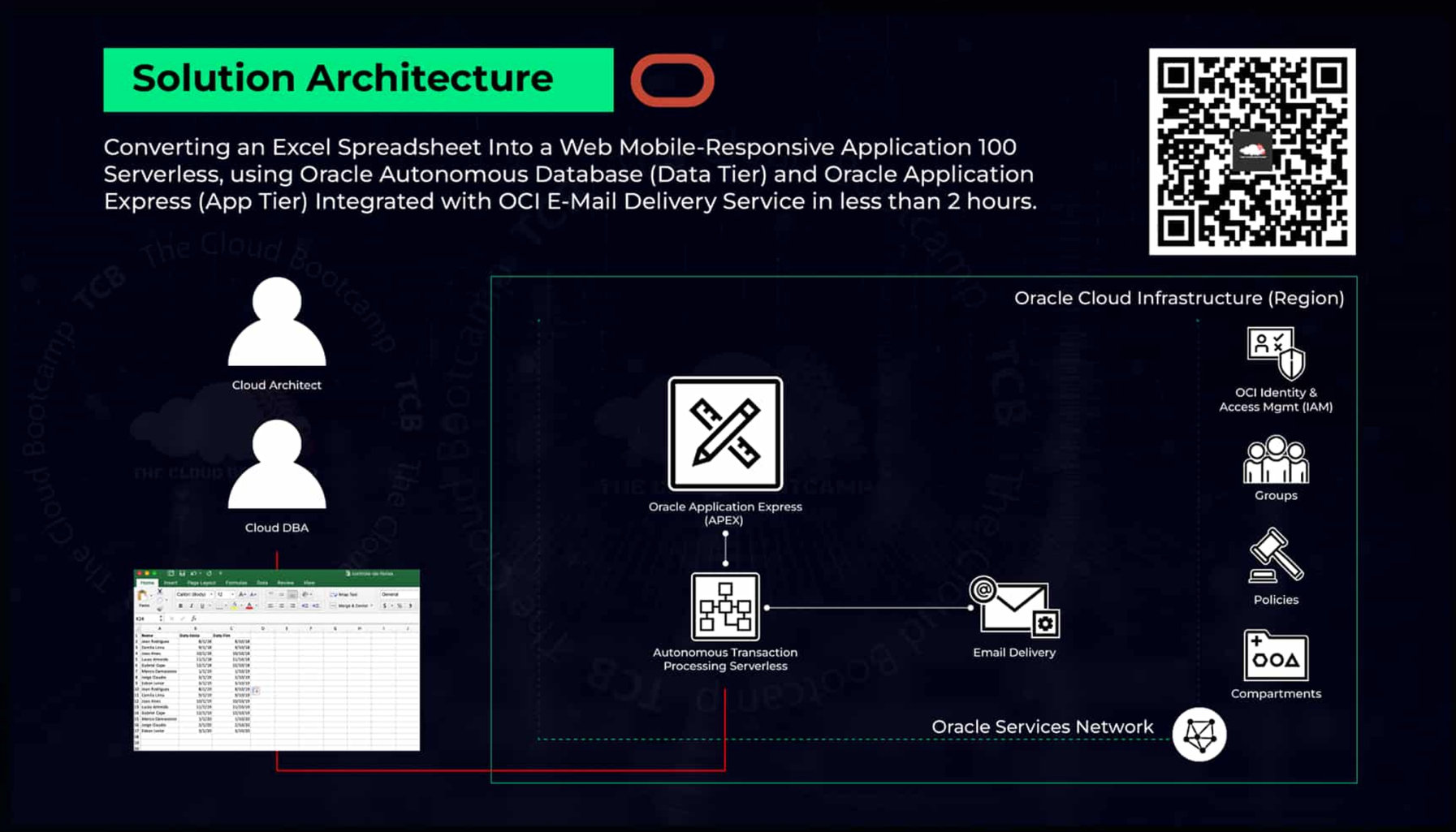
Technology used: Oracle Cloud Infrastructure Object Storage, Compute Instance, Cloud Python SDK, among others.

Cloud Project

Cloud Provider	Services & Technologies
Oracle Cloud Infrastructure	OCI Virtual Cloud Network (VCN) OCI Object Storage OCI Compute

MODERN SERVERLESS APP PROJECT

Conversion of employee vacation tracking spreadsheet into Mobile-Responsive and 100% Serverless Web application using Oracle Autonomous Database (Data Layer) and Oracle Application Express (App Layer) integrated with Oracle Cloud Infrastructure e-mail delivery service in less than 2 hours.



Technology used: Oracle Autonomous Database, Oracle Application Express, Oracle Cloud Infrastructure Email Delivery Service

Cloud Project

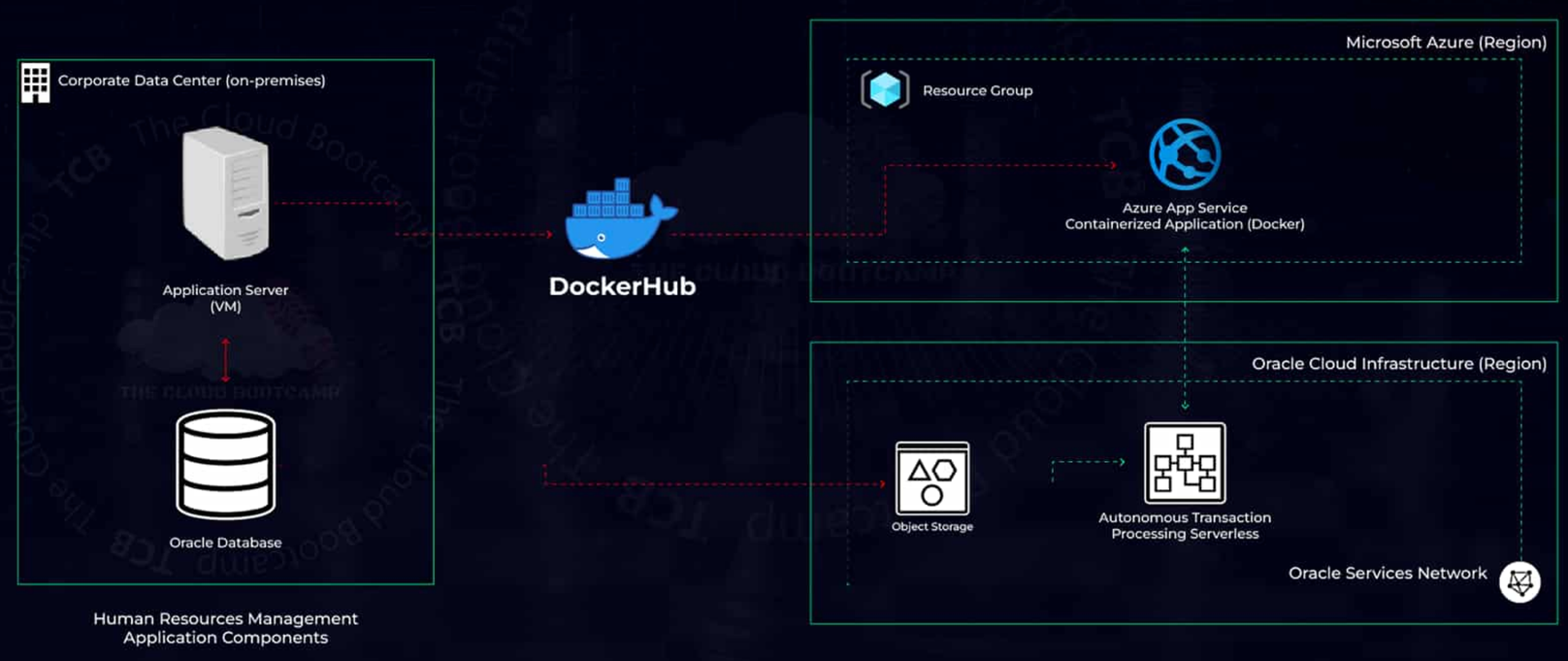
Cloud Provider	Services & Technologies
Oracle Cloud Infrastructure	OCI Virtual Cloud Network (VCN) OCI E-mail Deliver Service OCI Autonomous Database Oracle Application Express (APEX)

MULTICLOUD PROJECT

Migration and modernization of HR management application and Oracle Database from on-premises environment to MultiCloud architecture: Microsoft Azure App Service (Serverless Docker-Based Managed Service) and Oracle Autonomous Database (Serverless Database).

Solution Architecture

Migration and Modernization of HR Management Application / Oracle Database, from On-Prem Environment to MultiCloud Architecture, using Microsoft Azure App Service (Serverless Docker-Based Managed Service) and Oracle Autonomous Database (Serverless Database).



Technology used: Oracle Autonomous Database, Microsoft Azure App Service, Docker

Cloud Project

Cloud Provider	Services & Technologies
Oracle Cloud Infrastructure	OCI Virtual Cloud Network (VCN), OCI Object Storage, OCI Autonomous Database, Azure App Service

DevOps CLOUD BOOTCAMP

In the DevOps Cloud Bootcamp, you will have an immersive experience in the main DevOps technologies in the market, and all of this aligned with Cloud environments.

You will learn in a hands-on way and through projects based on real-world scenarios, the DevOps fundamentals, code versioning tools, Docker with Cloud hands-on and from stratch, Kubernetes with Cloud hands-on and from stratch, infrastructure as code and configuration management tools, automated application deployments with CI/CD pipelines, Cloud automation with Python, monitoring and observability tools, and much more.

DEVOPS CLOUD
BOOTCAMP

Projects and Hands-On Challenges
Based on Real-World cenarios.

MODULES

Module 1: DevOps Fundamentals

Module 2: Versioning Control with Git and Github + Hands-On Project

Module 3: Infrastructure as Code with Terraform + Hands-On Project

Module 4: Configuration Management with Ansible + Hands-On Project

Module 5: Packing applications with Docker Containers + Hands-On Project

Module 6: Containers Orchestration with Kubernetes + Hands-On Project

Module 7: Automating Software Delivery with Pipelines CI/CD + Hands-On Project

Module 8: Monitoring, Logging & Observability + Hands-On Project

Module 9: Automating Cloud Tasks with Python + Hands-On Project

9 Quizzes | 10+ Projects | 60+ Hours

DEVOPS

DevOps technologies are used by the highest paid technology professionals on the market to automate the entire lifecycle of a Cloud application.

MODULE 1

- Introduction
- Bootcamp real world-scenario story | AWS
- Who Is this Bootcamp For?
- What Is DevOps?
- Key Concepts and Principles of DevOps
- Key Benefits of DevOps
- Key Challenges of DevOps
- A Day In The Life Of DevOps Engineer
- Hands-on Readiness: Description - AWS
- Hands-on Readiness: Implementation - AWS

MODULE 2

- Introduction
- Git & GitHub: Introduction
- Git Fundamentals
- Committing Changes in the Git Repository
- Hands-on: Git Tasks - Part 1
- Exploring Git Objects
- Hands-on: Git Tasks - Part 2
- Git Branches & Merging
- Git Merging Process - Overview & Step-by-step
- Hands-on: Git Tasks - Part 3
- Working with Remote Repository
- Push and Pull Processes
- Remote Repository Services
- Hands-on: Git Tasks - Part 4
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2

MODULE 3

- Introduction
- IaC: Introduction
- Terraform: Introduction
- Hands-on: Instaling Terraform
- HCL Basics
- Providers
- Multiple Providers
- Variables
- Hands-on: Inputs
- Hands-on: Outputs
- Resources Attributes & Dependencies
- Hands-on: Resources Attributes & Dependencies
- Terraform State
- Hands-on: Terraform State
- Terraform Core Workflow
- Terraform Subcomandos
- Hands-on: Core Workflow and Subcomandos
- Modules
- Hands-on: Modules
- Remote State
- Hands-on: Remote State
- Provisioners
- Hands-on: Provisioners
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3

MODULE 4

- Introduction
- Configuration Management (CM): Introduction
- Introduction
- Architecture
- Components & Features
- Inventory
- Modules
- Ad Hoc Commands
- Hands-on: Getting started with Ansible
- Hands-on: Ansible Inventory, Ad-hoc & Configuration
- Hands-on: Modules
- Ansible: Playbooks
- Hands-on: Playbooks - Part 1
- Hands-on: Playbooks - Part 2
- Ansible: Variables
- Hands-on: Variables
- Ansible: Conditionals
- Hands-on: Conditionals
- Ansible: Loops
- Hands-on: Loops
- Ansible: Roles
- Hands-on: Roles
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3

MODULE 5

- Introduction
- Docker: Introduction
- VMs or Containers
- Docker Hub
- Docker Image x Containers
- Docker and DevOps
- Hands-on: Getting started with Docker on AWS
- Docker Operations: Introduction
- Docker Operations: Commands - Part 1
- Hands-on: Comandos - Part 1
- Docker Operations: Commands - Part 2
- Hands-on: Commands - Part 2
- Docker Images: Dockerfile
- Docker Images: Dockerfile Layer
- Docker Images: Build and Push
- Docker Images: Environment variables
- Hands-on: Docker Images
- Docker Storage: Introduction
- Docker Storage: Bind Mount
- Hands-on: Docker Storage
- Docker Networking: Introduction
- Docker Networking: Commands
- Hands-on: Docker Network
- Docker Compose: Introduction
- Docker Compose: Build Processs
- Docker Compose: Commands and Versions
- Hands-on: Docker Compose
- Docker ECS and ECR
- Hands-on: Amazon ECS
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3

MODULE 6

- Introduction
- Kubernetes: Introduction
- What is Kubernetes?
- The Kubernetes Architecture
- KinD
- Hands-on: Setting up KinD
- YAML
- Pods
- Hands-on: Pods - Part 1
- Hands-on: Pods - Part 2
- Replication Controllers & ReplicaSets
- Hands-on: ReplicaSets - Part 1
- Hands-on: ReplicaSets - Part 2
- Deployments
- Hands-on: Deployment
- Deployments: Update and Rollback
- Hands-on: Deployment - Update and Rollback
- Kubernetes Networking: Introdução
- Kubernetes ClusterIP
- Kubernetes NodePort
- Kubernetes Load Balancer
- Hands-on: Kubernetes Networking - Part 1
- Hands-on: Kubernetes Networking - Part 2
- Ingress
- Hands-on: Ingress
- Kubernetes Storage: Volumes
- Kubernetes Storage: PV, PVC & SC
- Hands-on: Kubernetes Storage - Part 1
- Hands-on: Kubernetes Storage - Part 2
- AWS Elastic Kubernetes Service
- Hands-On Project - Description
- Kubernetes Hands-on Project - Important Info About Princing
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3

MODULE 7

- Introduction
- CI/CD: Introduction
- CI/CD Concepts and Terminology
- Overview CI/CD Tools
- Jenkins Introduction
- Jenkins Architecture
- Hands-on - Install and Configure Jenkins in AWS - Part 1
- Hands-on - Install and Configure Jenkins in AWS - Part 2
- Creating Jenkins Pipeline
- Understanding Jenkinsfile
- Hands-on - Jenkins Freestyle Project Pipeline
- Hands-on - Jenkins Pipeline Script Definition
- Hands-on - Jenkins Pipeline Script From SCM
- Hands-on - Jenkins Pipeline Pushing Image in Docker Hub
- Hands-on - Jenkins Pipeline Build Triggers
- Hands-on - Jenkins on AWS - Part 1
- Hands-on - Jenkins on AWS - Part 2
- Hands-On Project - Description
- Hands-On Project - Solution - Part 1
- Hands-On Project - Solution - Part 2
- Hands-On Project - Solution - Part 3

MODULE 8

- Introduction
- What we are going to cover?
- Their Roles in MultiCloud & DevOps
- The Three Pilars of Observability
- Monitoring with Amazon Cloud Watch
- Infrastructure vs Application Monitoring
- Hands-on: CloudWatch (Metrics, Dashboards & Alarms) - Part 1
- Hands-on: CloudWatch (Metrics, Dashboards & Alarms) - Part 2
- Hands-on: CloudWatch (Metrics, Dashboards & Alarms) - Part 3
- Logging with Amazon CloudWatch Logs
- Using CloudWatch Logs and Integrating with EC2 and Lambda
- CloudWatch Logs Insights
- Hands-on - CloudWatch Logs - Part 1
- Hands-on - CloudWatch Logs - Part 2
- Enhancing Observability with AWS X-Ray
- Using AWS X-Ray for Application Insights
- Correlation Between CloudWatch and X-Ray
- Hands-on: AWS X-Ray Demo - Part 1
- Hands-on: AWS X-Ray Demo - Part 2
- Prometheus & Grafana
- Hands-on: Prometheus & Grafana - Part 1
- Hands-on: Prometheus & Grafana - Part 2
- Hands-On Project - Description
- Hands-On Project - Solution

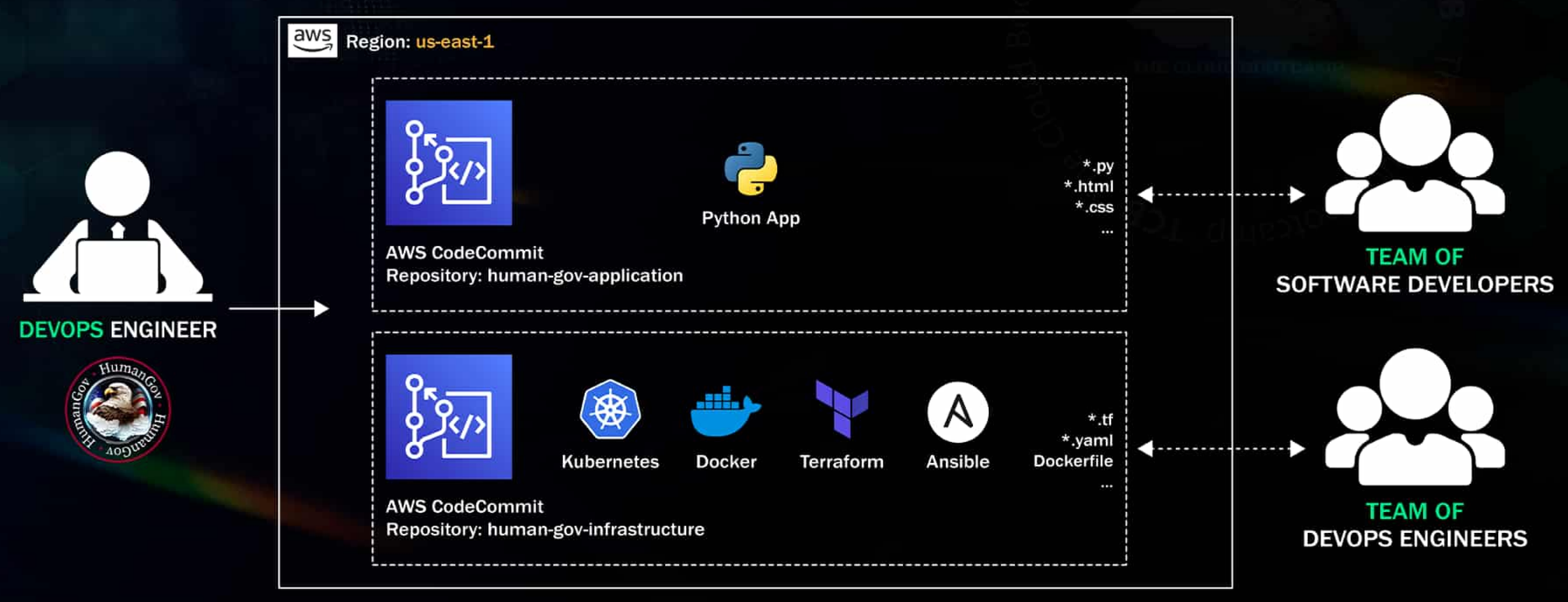
MODULE 9

- Introduction
- Definitions: Automation, Infrastructure as Code, Scripting
- The significance of automation in MultiCloud & DevOps
- Benefits of using Python for Cloud Automation
- Hands-on - Validating Cloud9
- Python's Syntax & Structure
- Basic Data Types: Strings, Integers, Floats
- Data Structures: Lists, Tuples, Dictionaries
- Control Structures: Loop FOR
- Control Structures: Loop WHILE
- Conditionals: If, Elif and Else
- Functions: Definition, Calling, and Scope
- Hands-on - Data structures, Loops & Functions
- Understanding Python's Ecosystem: Libraries, SDKs, and APIs
- Setting up the Python environment for Cloud tasks
- Hands-On: Setting up a Virtual Environment for Cloud Operations
- Introduction to Boto3: AWS's Python SDK
- Automating common AWS tasks
- Hands-on - Boto3 (EC2) - Part 1
- Hands-on - Boto3 (EC2) - Part 2
- Enhancing Automation with Serverless and Event-Driven Operations
- Hands-on: DynamoDB, Lambda & Python - Explanation
- Hands-on: DynamoDB, Lambda & Python - Part 1
- Hands-on: DynamoDB, Lambda & Python - Part 2

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: IMPLEMENTATION OF GIT REPOSITORIES FOR APPLICATION AND INFRASTRUCTURE CODE USING AWS CODE COMMIT + PROOF OF CONCEPT (POC) PROCESS OF COMMIT, PUSH AND REVERT CODE CHANGES.



Technology used: Git, GitHub, AWS CodeCommit

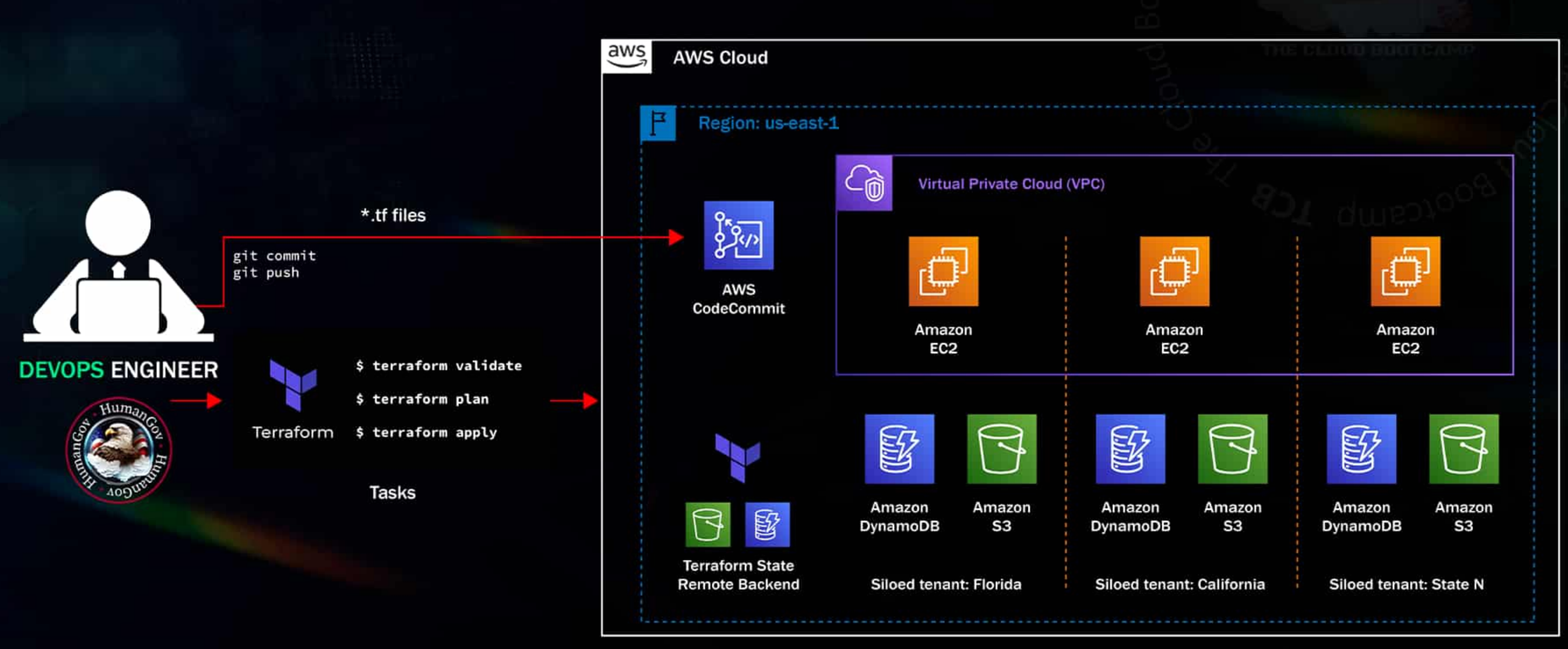
DEVOPS CLOUD PROJECT

CLOUD PROVIDER	SERVICES & TECHNOLOGIES
AMAZON WEB SERVICES	GITHUB, AWS CODE COMMIT, GIT

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: DEPLOYMENT OF A REUSABLE SAAS MULTI-TENANT AWS INFRASTRUCTURE USING TERRAFORM MODULES SECURELY STORING TERRAFORM CONFIGURATION FILES ON AWS CODE COMMIT.



Technology used: Terraform, EC2, DynamoDB, S3, AWS CodeCommit

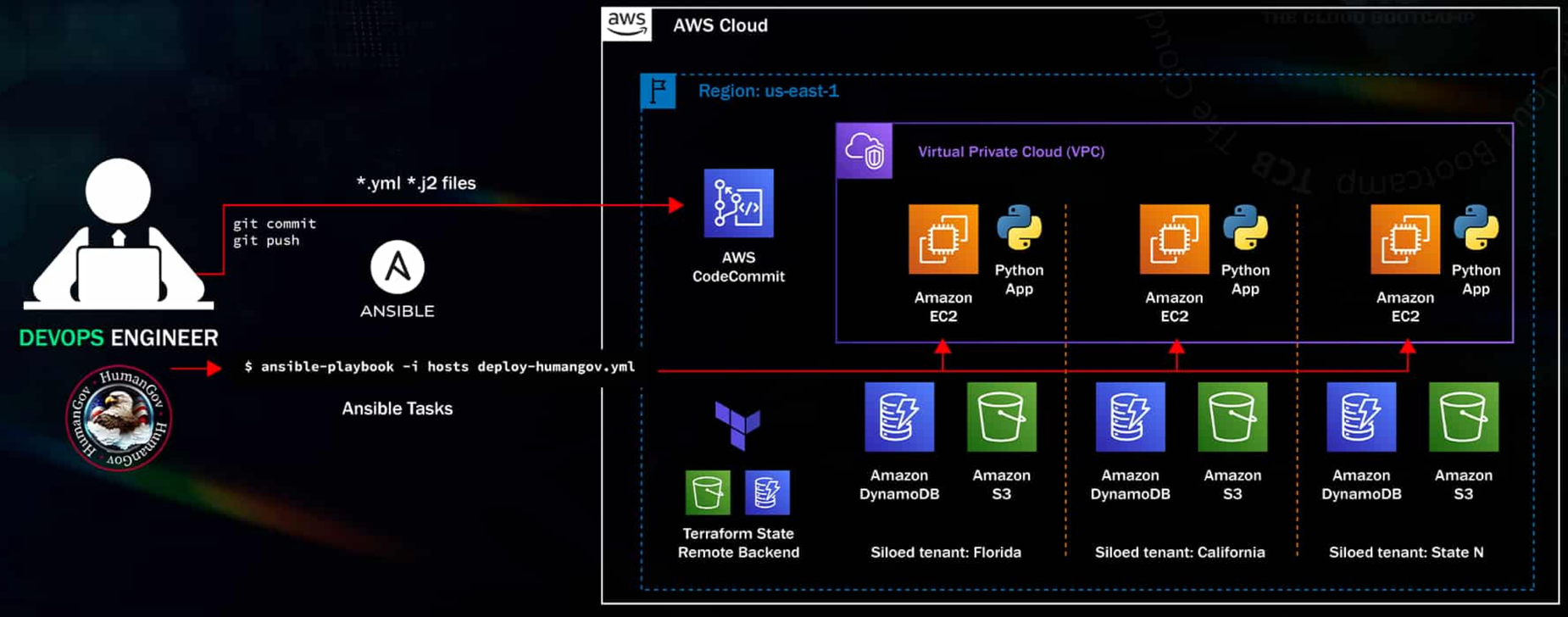
DEVOPS CLOUD PROJECT

CLOUD PROVIDER	SERVICES & TECHNOLOGIES
AMAZON WEB SERVICES	AWS CODECOMMIT, AMAZON DYNAMODB, TERRAFORM, AMAZON EC2, AMAZON S3

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: CONFIGURATION AND DEPLOYMENT OF HUMANGOV SAAS APPLICATION ON AWS EC2 INVENTORY ACROSS US STATES USING ANSIBLE SECURELY STORING CONFIGURATION FILES ON AWS CODE COMMIT.



Technology used: Ansible, EC2, DynamoSB, S3, AWS CodeCommit

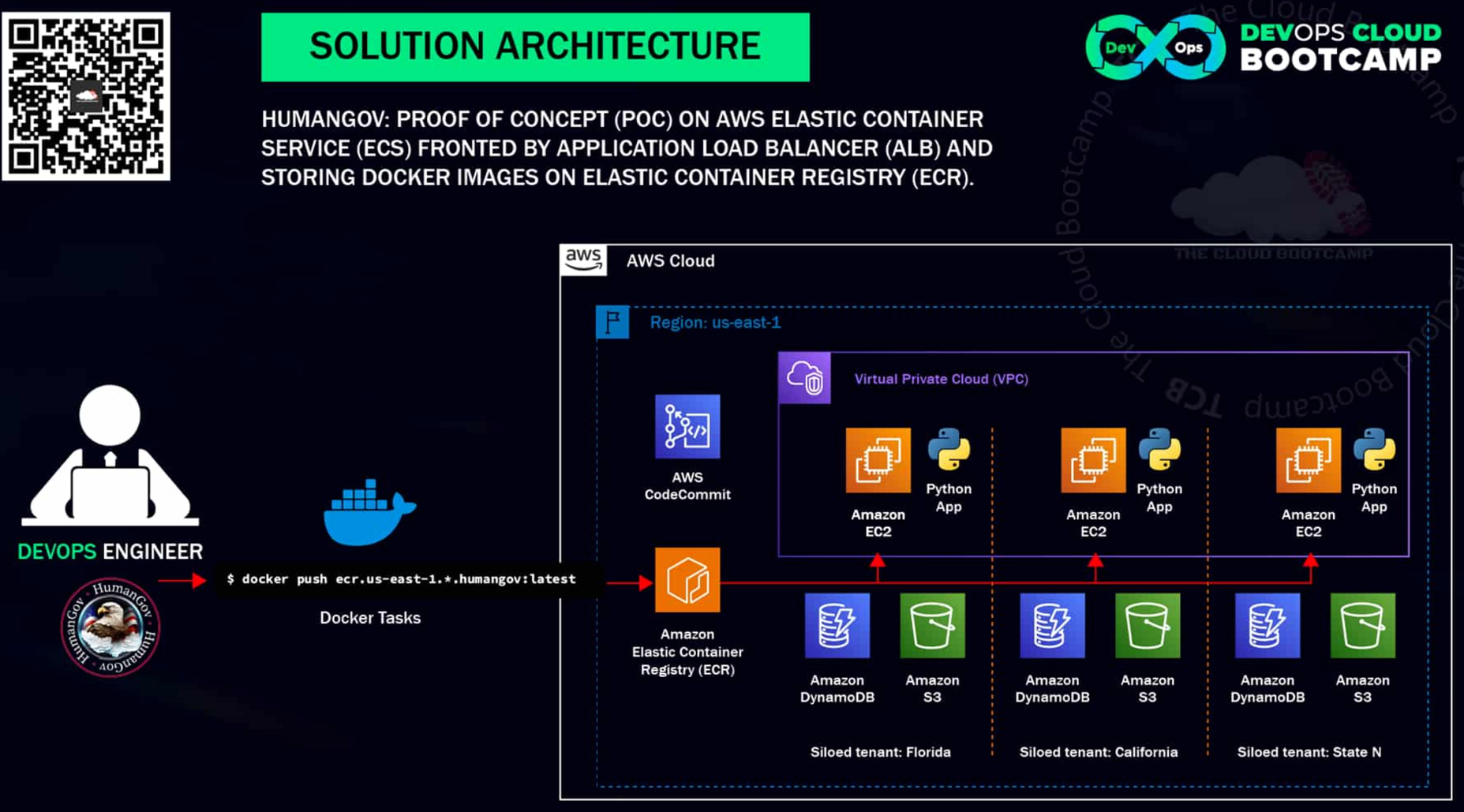
DEVOPS CLOUD PROJECT

CLOUD PROVIDER	SERVICES & TECHNOLOGIES
AMAZON WEB SERVICES	AWS CODECOMMIT, ANSIBLE, AMAZON DYNAMODB, AMAZON EC2, TERRAFORM, AMAZON S3

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: PROOF OF CONCEPT (POC) ON AWS ELASTIC CONTAINER SERVICE (ECS) FRONTED BY APPLICATION LOAD BALANCER (ALB) AND STORING DOCKER IMAGES ON ELASTIC CONTAINER REGISTRY (ECR).



Technology used: AWS, IAM roles, AWS Cloud 9, Docker, AWS ECR, Python, NGINX, Terraform, AWS S3 Bucket, DynamoDB, Elastic Container Service (ECS)

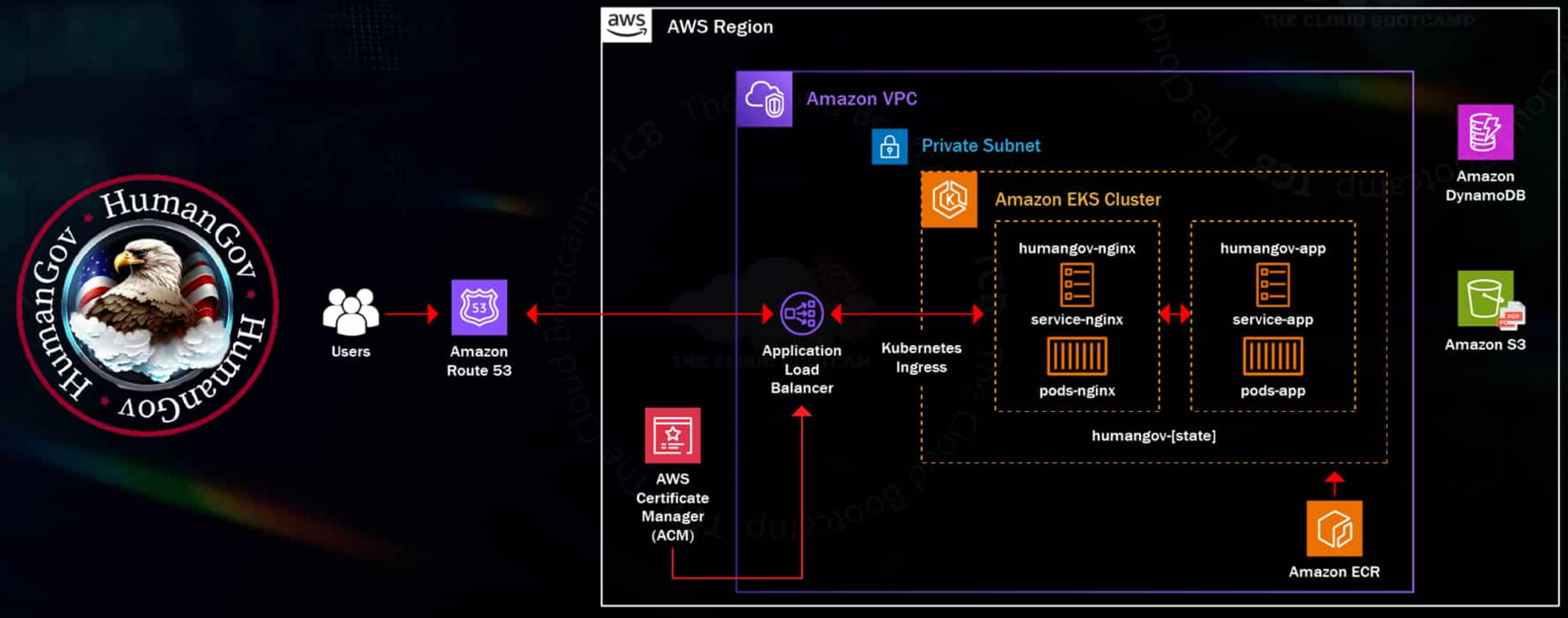
DEVOPS CLOUD PROJECT

CLOUD PROVIDER	SERVICES & TECHNOLOGIES
AMAZON WEB SERVICES	AWS CLOUD9, AWS S3 BUCKET, AMAZON DYNAMODB, AWS ECS, IAM ROLES, AWS ECR, DOCKER, PYTHON, NGINX, TERRAFORM

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: DEPLOYMENT OF HUMANGOV SAAS APPLICATION ON AWS ELASTIC KUBERNETES SERVICE (EKS) USING A ROUTE 53 DOMAIN, ALB INGRESS AND SSL ENDPOINT POWERED BY AWS CERTIFICATE MANAGER.



Technology used: AWS EKS, Route 53, ALB Ingress, AWS Certificate Manager, Docker, Amazon ECR, Kubernetes, AWS VPC, IAM, SSL

DEVOPS CLOUD PROJECT

CLOUD PROVIDER

AMAZON WEB SERVICES

SERVICES & TECHNOLOGIES

IDENTITY AND ACCESS MANAGEMENT

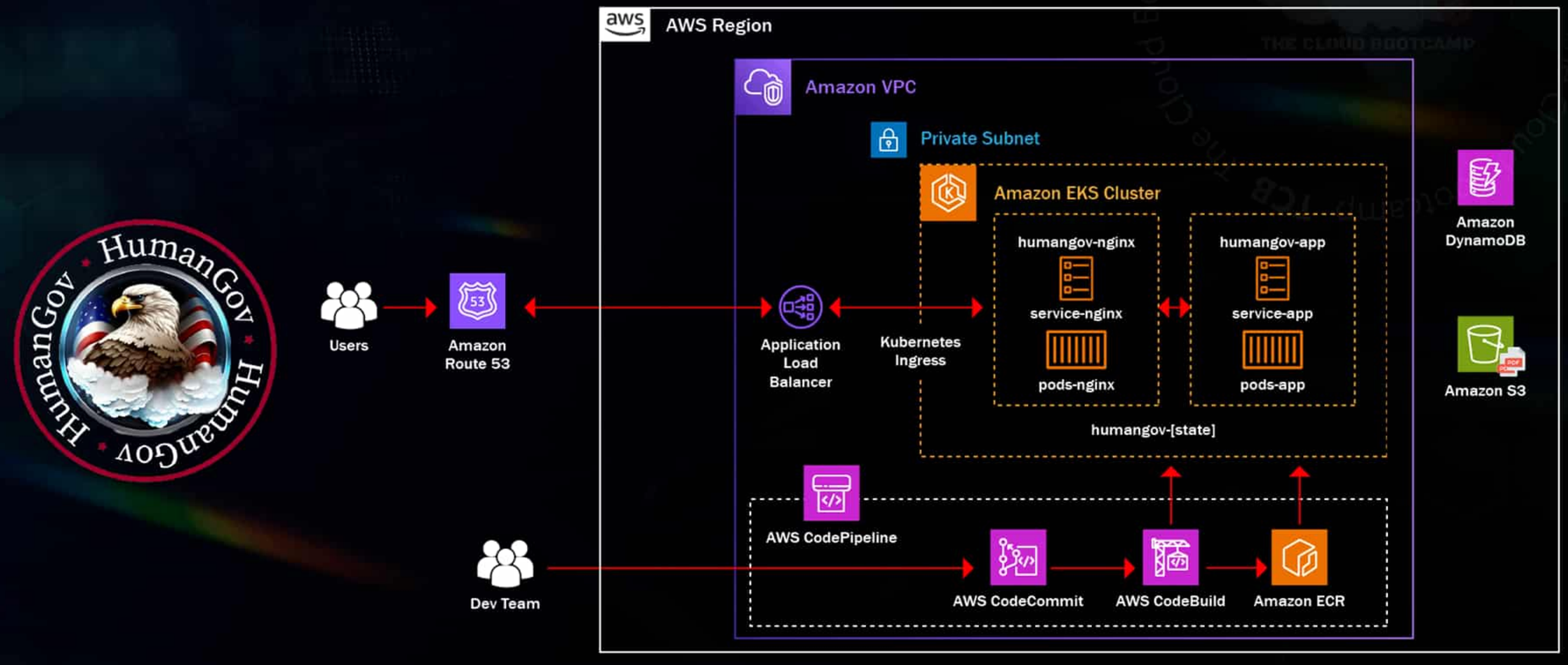
AWS CERTIFICATE MANAGER

AWS EKS | ROUTE 53 | AMAZON ECR | AWS VPC | KUBERNETES | DOCKER

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: AUTOMATING HUMANGOV SAAS APPLICATION BUILD AND DEPLOYMENT PROCESS ON KUBERNETES WITH CI/CD PIPELINES USING THE AWS CODECOMMIT, AWS CODEPIPELINE AND AWS CODE BUILD.



Technology used: AWS, AWS CodeCommit, AWS CodePipeline, AWS CodeBuild, Kubernetes, Docker, AWSElastic Container Registry (ECR), IAM, AWS Elastic Kubernetes Service (EKS), Terraform.

DEVOPS CLOUD PROJECT

CLOUD PROVIDER

AMAZON WEB SERVICES

SERVICES & TECHNOLOGIES

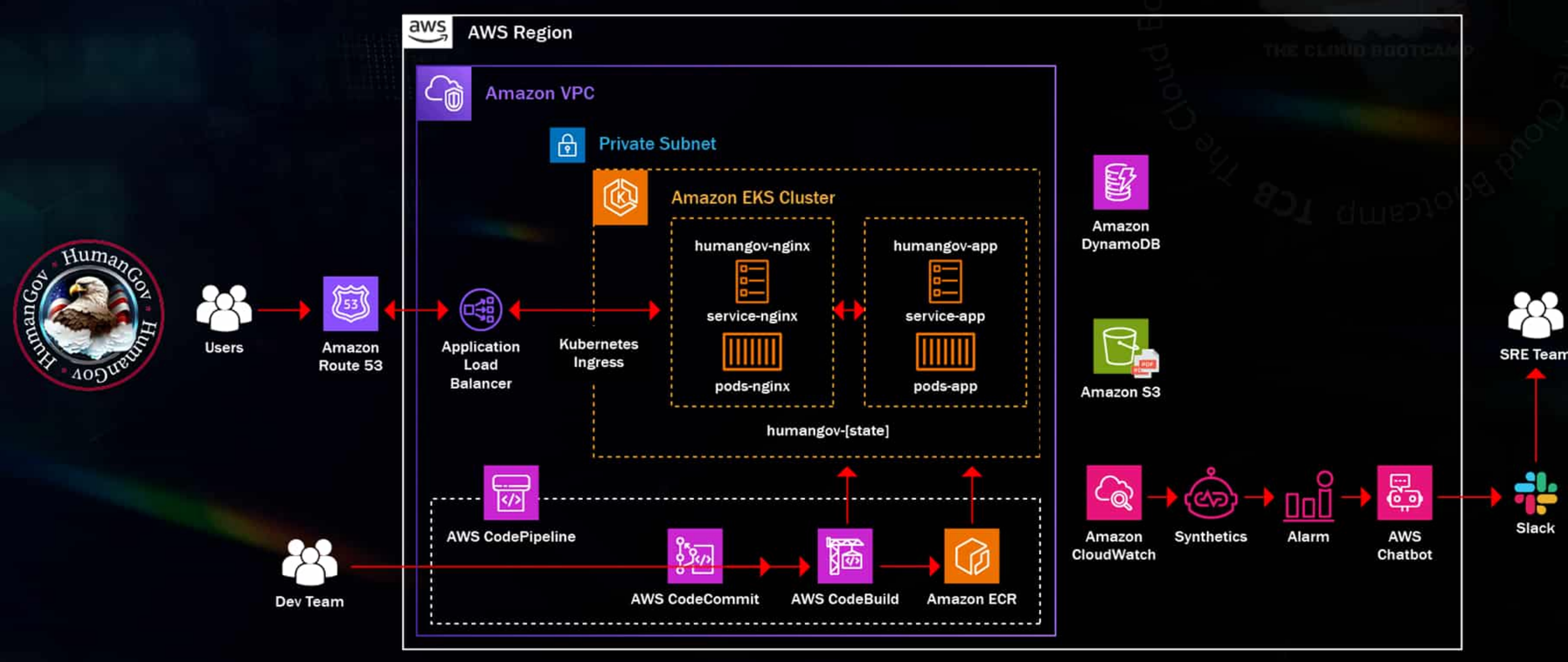
AWS CODECOMMIT | AWS CODEPIPELINE | AWS CODEBUILD

AMAZON EKS | AMAZON ECR | IAM | DOCKER | KUBERNETES | TERRAFORM

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: IMPLEMENTING AWS CLOUD WATCH SYNTHETICS FOR REAL-TIME APPLICATION URL MONITORING INTEGRATED WITH CLOUDWATCH ALARMS, SNS AND AWS CHATBOT TO SEND REAL-TIME ALERTS ON SLACK.



Technology used: AWS, AWS CloudWatch, AWS CloudWatch Synthetics, IAM, AWS SNS (Simple Notification Service), AWS Chatbot, Slack, CloudWatch Alarms

DEVOPS CLOUD PROJECT

CLOUD PROVIDER

AMAZON WEB SERVICES

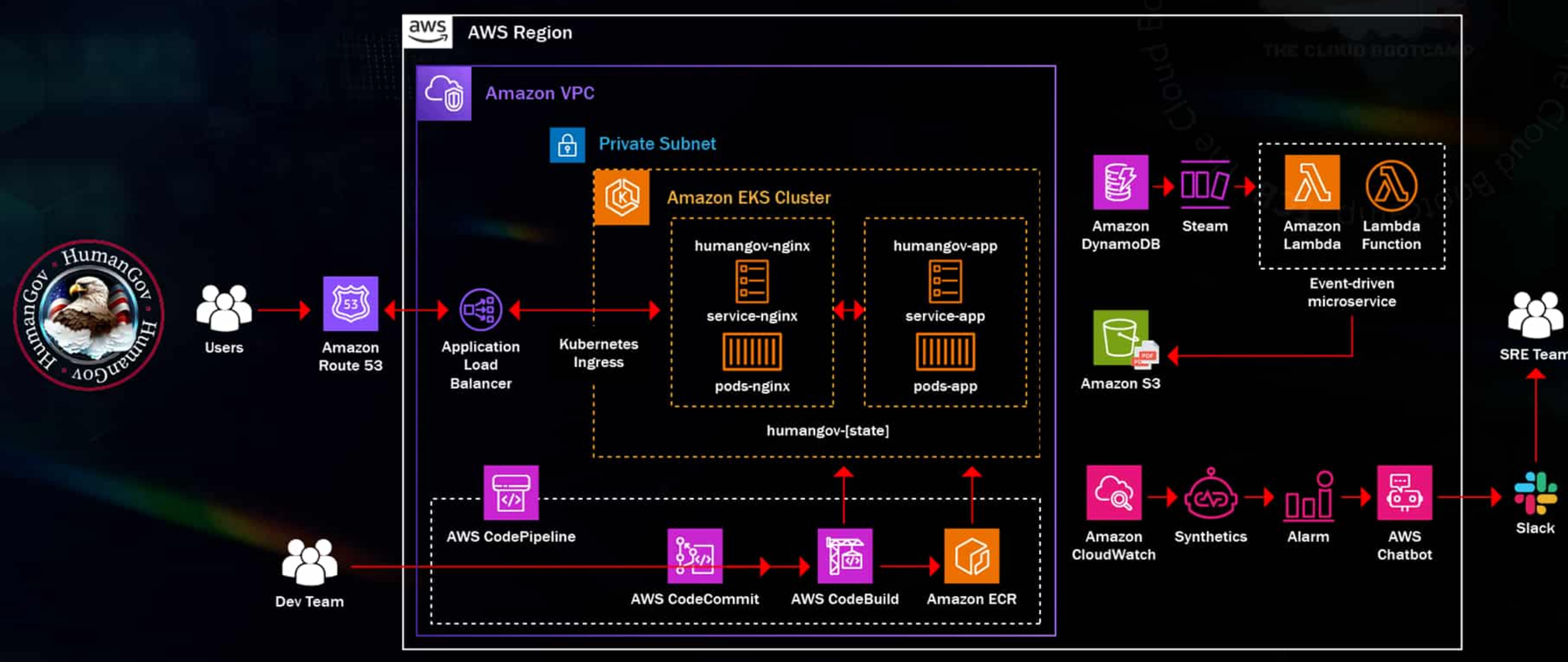
SERVICES & TECHNOLOGIES

- CLOUDWATCH SYNTHETICS
- AWS CLOUDWATCH
- CLOUDWATCH ALARMS
- IAM
- AWS SNS
- SLACK
- AWS CHATBOT

DevOps CLOUD BOOTCAMP

SOLUTION ARCHITECTURE

HUMANGOV: DEVELOPING AN EVENT-DRIVEN AND SERVERLESS PYTHON MICROSERVICE TRIGGERED BY DYNAMODB STREAMS USING AWS LAMBDA FUNCTION AND AWS SDK PYTHON BOTO3.



Technology used: AWS, AWS Lambda, AWS SDK, Python, Boto3, DynamoDB, IAM, AWS CloudWatch, Amazon S3.

DEVOPS CLOUD PROJECT

CLOUD PROVIDER

AMAZON WEB SERVICES

SERVICES & TECHNOLOGIES

AWS LAMBDA · CLOUDWATCH · DYNAMODB · AMAZON S3 · IAM · PYTHON · BOTO3

MULTICLOUD & DEVOPS
BOOTCAMP

MultiCloud & DevOps Career Acceleration Program

+30 Cloud Projects and Hands-On Challenges

Based on real scenarios

aws certified Cloud Practitioner

Microsoft CERTIFIED AZURE FUNDAMENTALS

Google Cloud Certified ASSOCIATE CLOUD ENGINEER

ORACLE Certified Associate

BONUS

4 extra modules to prepare you for certification

BONUS

Private Community

CERTIFICATE
OF COMPLETION

Receive industry-recognized Certificates of Completion upon completing **each Bootcamp** to showcase your knowledge and hands-on expertise to the market on your Linkedin.

MULTICLOUD & DEVOPS
BOOTCAMP

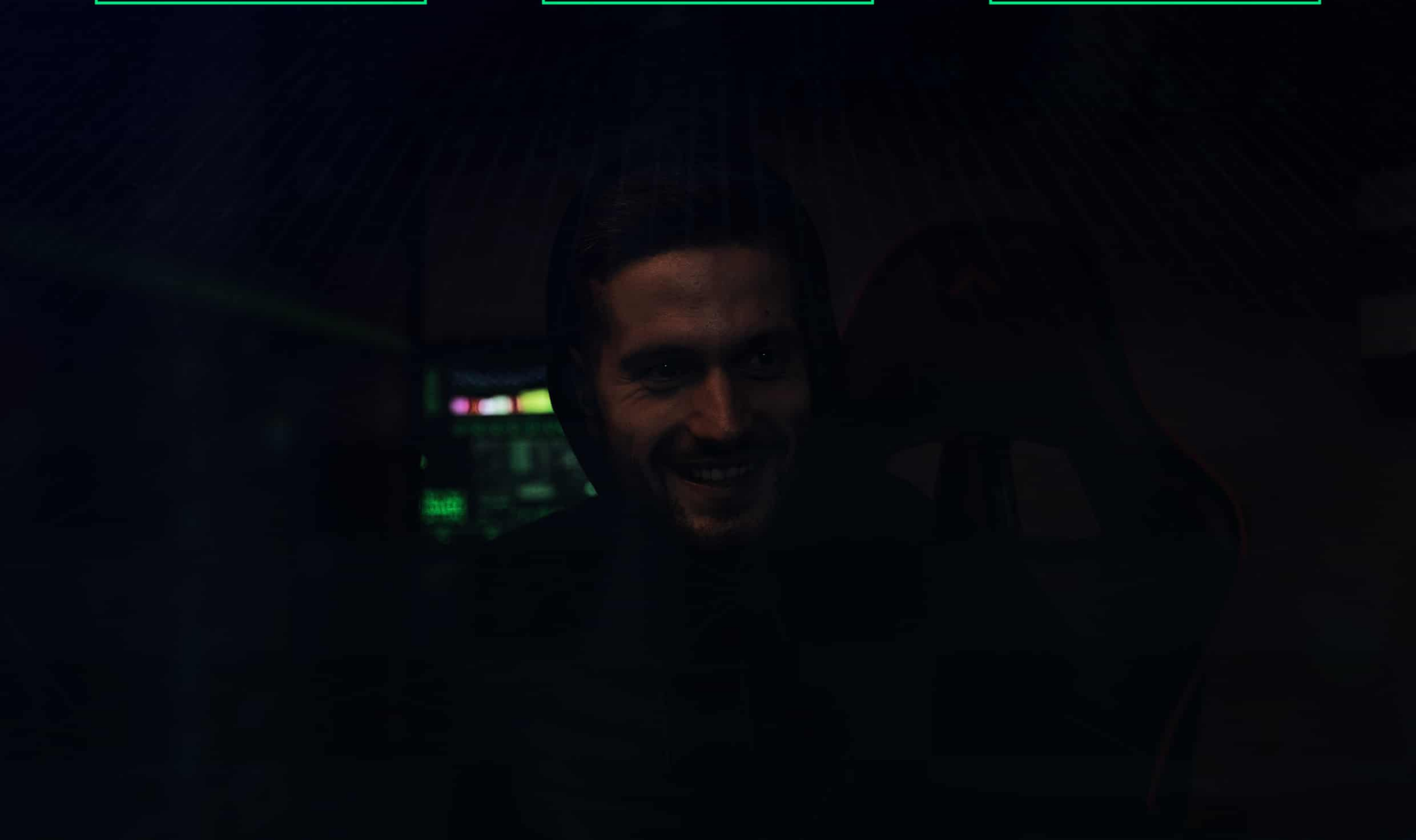
MultiCloud & DevOps Career Acceleration Program

WHO IS THIS PROGRAM FOR?

Technology Professionals

IT Leaders

Anyone else who wants to specialize in MuliCloud and DevOps



MULTICLOUD & DEVOPS
BOOTCAMP

MultiCloud & DevOps Career Acceleration Program

WHAT IF I REALIZE IT'S NOT FOR ME?

15-DAY UNCONDITIONAL GUARANTEE
IT'S SIMPLE...
OR YOU LIKE IT AND PARTICIPATE, OR YOU GET 100%
OF YOUR INVESTMENT BACK

TRANSFORMING LIVES
THROUGH EDUCATION

"I got another position, Jean, that I went on to earn 3 times what I was previously earning..." "I just wanted to say thank you, since I enrolled in your course it seems like the doors have opened wider for me!"

Paulo Ribeiro
Data Engineer | Decode DECODE

"It was a dream come true when I got my YES from Oracle to start there! If it wasn't for the Bootcamp, I would still be doing Database Administration. It was a gamble, and a sure bet!"

Wagner Munhoz
Cloud Solution Engineer | Oracle

"Dudeee! I've been meaning to come here for a long time. I have to thank you and your team! Because of your Multicloud oriented education startup, with amazing training and a bootcamp that needs no comments, today I am Head of Infrastructure and IT Operations in the CCAA group. I have used my knowledge to bring a new vision to the group and in fact this is making the difference on a daily basis:

Brunno Freitas
Head of IT Infrastructure & Operations | CCAA

Watch more success cases...