

# Interview Presentation

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# Introduction

- About me
- Project Objectives
- Terraform, Ansible, Pipeline and Release
- Challenges Overcome
- Achievements
- Agile, Scrum and SysOps
- Key practices
- Transformation through Automation

- **Started as a Linux System Administrator**

- *Specializing in building, optimizing, and maintaining Linux-based infrastructures.*

- **Automation Engineer**

- *Dedicated to crafting efficient and scalable automated solutions that streamline operations.*

- **DevOps Advocate**

- *Bridging the gap between development and operations to foster collaborative and continuous delivery pipelines.*

- **Experienced SysOps on production environments**

- *Ensuring the reliability, performance, and security of critical systems and services.*

# Project Objectives

## 1. Infrastructure provisioning

Decrease manual processes to have **idempotent** and **error-free** deployments across environments.

## 2. IAC\* integration

Connect IAC with CI/CD<sup>a</sup> pipelines for a **smooth delivery** process.

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<sup>a</sup>IAC: Infrastructure as Code, CI/CD: Continuous Integration / Continuous Delivery

## 3. Collaboration

Motivate **cross-functional teamwork** to accelerate delivery through automation.

# Terraform, Ansible, Pipeline and Release

- **Terraform**

- Infrastructure as Code
- Cloud and On-premise provisioning

- **Ansible**

- Configuration management
- Automation playbooks

- **CI/CD Pipeline**

- Automated builds and tests
- Deployment workflows

- **Release Management**

- Versioned deployments
- Rollback capability

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End-to-end automation from development to production

# Challenges Overcome

## **Advocate for DevOps principle**

Synchronized complex state across multiple teams and environments

## **Configuration Drift Prevention**

Maintained idempotency while managing intricate infrastructure dependencies

## **Agile Integration**

Aligned automation workflows with sprint cycles and review processes

# Achievements

## **Reduced Manual Work**

Accelerated deployments through comprehensive automation

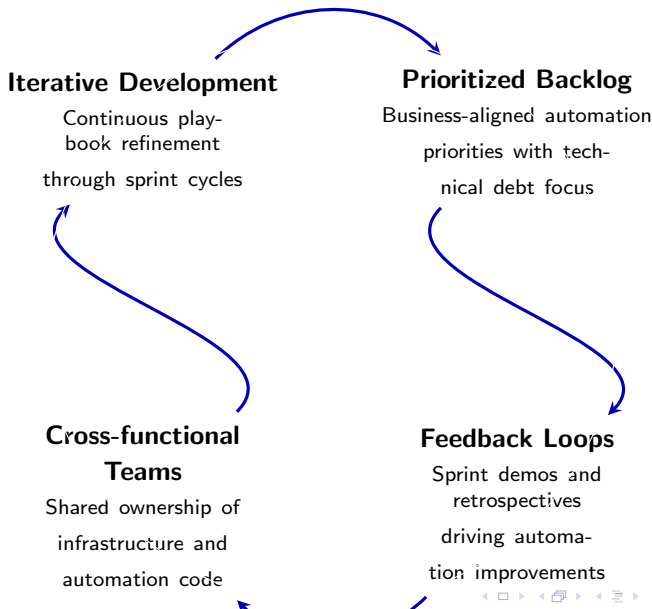
## **Stability**

Achieved consistent system states with zero configuration drift

## **Speed**

Rapid environment delivery for development and tests

# Agile, Scrum and SysOps





# Key practices

## 1 Clear scope separation

- Terraform provisions, Ansible configures
- Maintain distinct responsibilities

## 2 Dynamic Inventory Integration

- Link Terraform outputs to Ansible
- Seamless workflow connection

## 3 Quality Gates Automation

- Embed linting, testing, security scans
- Throughout all pipelines

## 4 Agile-Embedded Automation

- Integrate automation in Agile
- Accelerates delivery cycles

# Transformation Through Automation

## Key Takeaways

- **Ansible-centered automation** drives reliability and team agility
- **Agile practices** enhance automation sustainability
- **Cross-functional collaboration** accelerates delivery
- **Continuous improvement** ensures long-term success