

Fontys University of Applied Sciences

Disaster recovery plan

GetawayGo

Anna Kadurina
05/12/2024

Table of Contents

Introduction.....	1
Failed Tests (Unit, Integration, End-to-end, Security, Vulnerability)	1
Action.....	1
Recovery	2
Deployment Failure	2
Action.....	2
Recovery	2
Service Downtime or Outage.....	2
Action.....	2
Recovery	2
Version Control Issues	3
Action.....	3
Recovery	3
Conclusion	3

Introduction

The Disaster Recovery Plan (DRP) for GetawayGo aims to outline procedures to restore services in case of failures, security issues, or disruptions.

Failed Tests (Unit, Integration, End-to-end, Security, Vulnerability)

If tests fail during development or deployment.

Action

1. Unit tests: Review test logs to identify the cause of failure. Fix the failing code and rerun the tests.
2. Integration tests: Investigate where the issue is coming from. Fix the issue and rerun the tests.
3. End-to-end: Identify the issue in the chain and fix it. Run the tests again.

4. Security tests: Review security scan reports for vulnerabilities (OWASP Zap). If a vulnerability is identified, prioritize fixes based on severity. Run the tests again.
5. Vulnerability tests: Find the vulnerable package/s in Snyk and fix the dependency. Run the tests again.

Recovery

Revert to last stable version if the issue cannot be resolved quickly. Ensure that any unresolved issues are documented.

Deployment Failure

A failure during deployment causing the application to be partially or completely unavailable.

Action

1. Rollback: Revert to previous stable version.
2. Staging: Implement staging slots and deploy the application there and then switch to production slot, so if deployment fails it fails on staging.

Recovery

Ensure the environment configuration matches the production settings. Re-run the deployment after confirming fixes.

Service Downtime or Outage

Any microservice becomes unavailable.

Action

1. Monitoring: Use monitoring tools like Application Insights to check service's health.
2. Restart: Attempt to restart the affected service or scale it up.

Recovery

Once the service is back online, verify its functionality with test cases.

Version Control Issues

Merge conflicts or issues related to version control in the code repository.

Action

1. Review the conflicting code sections and resolve conflicts.
2. Revert to a previous working solution.

Recovery

Ensure all code is merged and tested before proceeding to deployment.

Conclusion

This Disaster Recovery Plan is designed to address common issues and failures that might occur during the development, deployment, and operation of the GetawayGo project. By following these recovery procedures, I can minimize downtime, and maintain a reliable application.