

# Infrastructure Automation

## description\_

Is your infrastructure optimized for maximum accuracy, transparency, and cost efficiency? If you're unsure, then it is time to reconsider how your infrastructure is integrated. By adopting an automated approach instead of manual methods, the adWISE Infrastructure Automation consultancy can eliminate human error from new infra provisioning and significantly reduce DevOps and IT workloads. This frees up valuable time and resources for your organization; thus eliminating any kind of cost waste.

Modernized, scripted templates ensure built-in security, while a stable configuration setup integrates seamlessly with your CI/CD pipelines. Historical change tracking, made possible by a stored scripted infrastructure definition file in your repository, enables auditability and enhanced configuration management.

When you set out on your infrastructure automation journey, our adWISE experts work with you to choose from a selection of top automation tools and implement industry-leading best practices to deliver efficient, consistent, scalable, and repeatable infrastructures.

We provide:

- ▶ Auditable processes and predictable outcomes.
- ▶ The ability to create identical infrastructure across environments.
- ▶ Top-notch expertise in cloud infrastructure provisioning.
- ▶ A consistent configuration setup across different environments, addressing and overcoming configuration gaps.

### Service Metrics

Effort : 15-20 Person/Day

Duration : 2-3 Weeks

Team structure : 1 DevOps Engineer

### Tooling



TerraForm



Cloud Formation (AWS)



Azure Biceps



Azure ARM



GCP Deployment Manager

## motivations\_

- ▶ Lack of auditable history of infrastructure processes
- ▶ Time-consuming and error-prone manual infrastructure implementation
- ▶ Unpredictable costs due to a lack of standardization in resource provisioning
- ▶ Difficulty in historical tracing the infrastructure provisioning processes during troubleshooting
- ▶ A need for operational readiness for swift recovery in disaster scenarios

## prerequisites\_

- ▶ Knowledge of infrastructure-as-code (IaC) tools
- ▶ Familiarity with cloud platforms, especially resource dependencies
- ▶ Tooling knowledge in CI/CD processes (preferred)

## deliverables\_

- ▶ Customized templates (scripts) for infrastructure resources
- ▶ Streamlined infrastructure provisioning pipelines

## recommended adesso services\_

- ▶ Automation with CI/CD

## references\_

- ▶ Mercedes-Benz
- ▶ Allianz
- ▶ PepsiCo
- ▶ Pudo
- ▶ Papara
- ▶ Philip Morris International

## contacts\_



**Firat Yaşar**

Head of Engineering

DevOps & Data

firat.yasar@adesso.com.tr