

# Natilik Infrastructure as Code (IaC)

## Overview

### Infrastructure as Code from Natilik

Natilik Infrastructure as Code (IaC) allows you to compliantly provision and manage any cloud or on-premise infrastructure, and service through code instead of through manual processes. Resources and infrastructure are defined in human-readable, declarative configuration files that manage your infrastructure's life-cycle.

## Why Infrastructure as Code?

### 1

#### Repeatability

Provisioning infrastructure manually is a time consuming and error prone process. One that has to be repeated multiple times, to mirror the applications being deployed into multiple environments. If an issue or error is uncovered, previous version roll back is easier with a pre defined best practice repeatable process, allowing for rapid recoveries and minimal disruption to the business.

### 2

#### Efficiency

With software tools such as API's, Software development kits (SDK's) text editors and version-control systems engineers can increase productivity utilising familiar processes and skills whilst taking advantage of new features such as code review and security and automated testing.

### 3

#### Reliability

The automated process significantly reduces the chance of manual human errors, hence reducing the risk of downtime to the business. Codifying your infrastructure removes the dependency on individual knowledge or resources per deployment and instead, intuitively builds in that best practice automatically as a default. This allows for consistency and compliance across the whole business,

### 4

#### Time and Cost Savings

Despite the initial investment in time and effort, IaC is more cost effective in the long run. Provisioning infrastructure for the next environment removes the need for manual configuration and saves your teams time. Due to this efficient provisioning, environments can be spun up or down as and when required to fit the business needs and budgets.

# Features

## Provision Infrastructure in Human-Readable Language

Natilik IaC allows you to define your infrastructure in simple and human-readable format. No programming skills are required.

## Validation Testing

Run automated tests and validate the code through static analysis and security tools. Test your configuration in test environment before it will be provisioned in production.

## In-Built Security

Scan automatically your infrastructure as code for issues and enforce security best practices earlier in the process before the configuration will be provisioned.

## Automated Provisioning

Shift from manual, error-prone provisioning to automated provisioning at scale with Natilik IaC. It will automatically Build, Deploy and Test any changes to your infrastructure or services.

## Fast Rollbacks

Quickly restore things to exactly how they were before the change with Natilik IaC. It is safe and fast way how to minimise any down-times caused by the incorrect configuration.

# The Solution



## Validation & Automation

Delivered within GitLab maximise your resources with best practice pipelines developed with an automated validation process that empowers your teams to work together efficiently benefiting from end-to-end automation.



## Abstraction

Abstract your infrastructure and replicate at speed in a robust and safe environment to accelerate business outcomes with HashiCorp Terraform. Allows your operators to safely make changes to infrastructure, with clearly mapped resource dependencies and separation of plan and apply.



## Innovation

Take advantage of Terraform Sentinel to manage your policy as a code and Chef InSpec to define your security. Detect policy violations automatically within your code with Bridgecrew and address any threats fast with remediation-as-code.

# Backed by the best

Natilik have a trusted network of ecosystem partners that are industry leading in bringing the best solutions to market. Within Natilik IaC we connect applications and systems to meet your business challenges with seamless integrations developed by our Natilik team.



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