

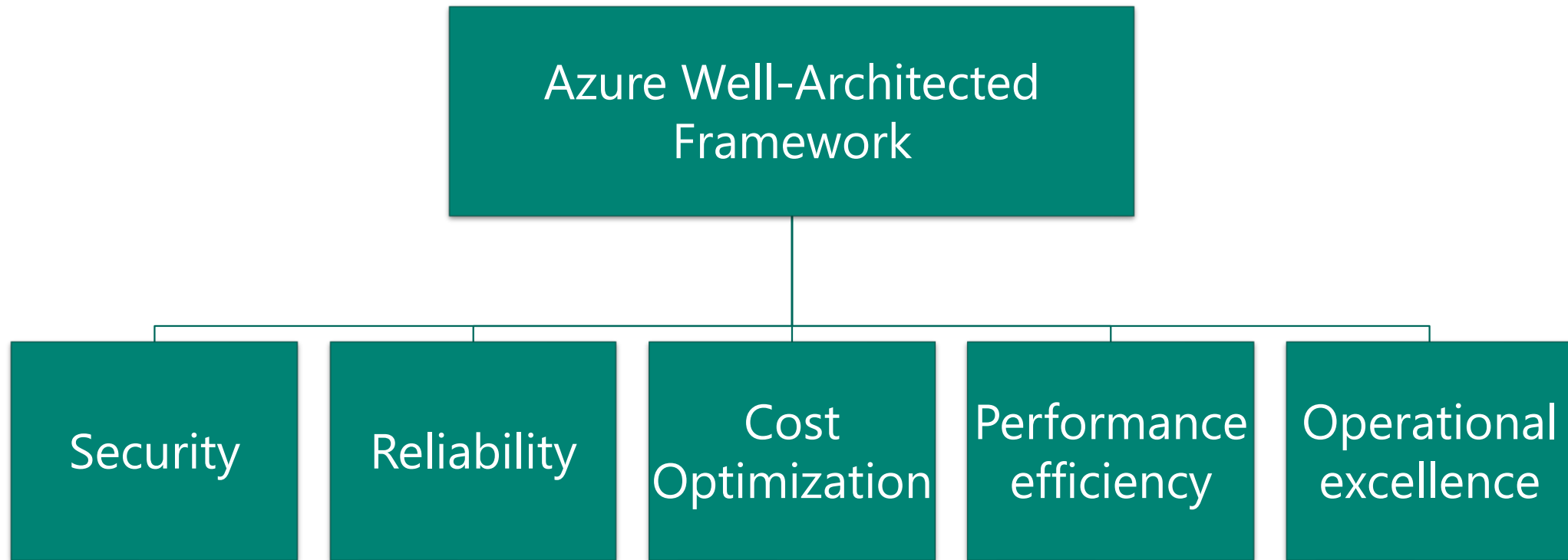


Infrastructure as Code (IaC) Bigger Picture



How to build efficient and reliable solutions on Azure?

Pillars of well-architected framework



What is Operational excellence about?

Visibility

- ensuring you have full visibility into how your application is running, and ensuring the best experience for your users

Productivity

- making your development and release practices more agile, which allows your business to quickly adjust to changes

How to achieve operational excellence?

Building a culture to achieve operational excellence



Small, autonomous and multidisciplinary teams



Agile practices and Growth mindset



Ownership and shared responsibility



Mutual accountability



Usually known as DevOps Culture

Operational excellence from a technical perspective

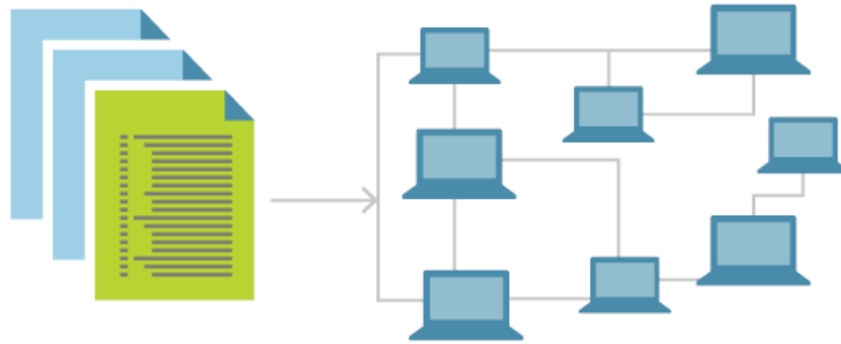
Design, build and orchestrate with modern practices

Use monitoring and analytics to gain operational insights

Use automation to reduce effort and error

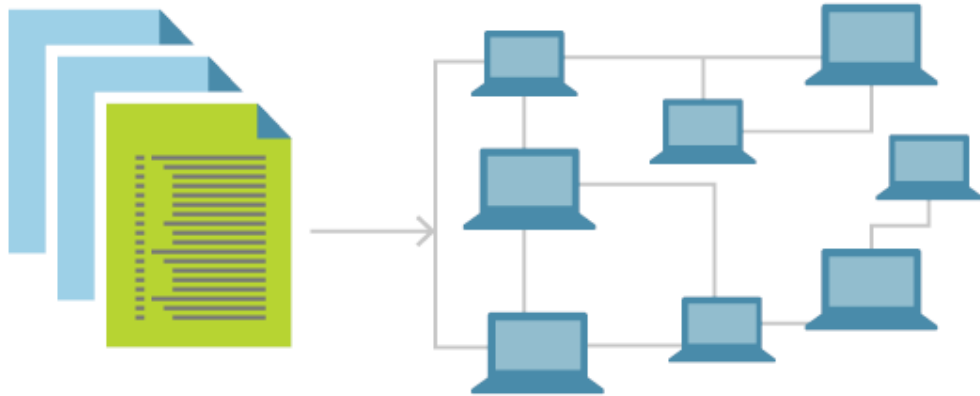
Test

One of the modern practices



Infrastructure as Code (IaC)

IaC - Treat infrastructure like software



From definition files to working infrastructure

Declarative (typically)

Idempotent

Versioned

Reproducible

Automated provisioning and configuration

Distributable

Benefits of adopting IaC

Mitigate
environment drift
and *snowflake*
environments

Enforce
Consistency

Better visibility
from versioning
and well-
documented code

Enable testing
capabilities on
production-like
environments

Increase
development
productivity

Can play a key role
in enabling best
practices in
DevOps

laC tooling

IaC and Configuration tools for Azure



ANSIBLE



HashiCorp

Terraform



HashiCorp

Packer



docker



puppet

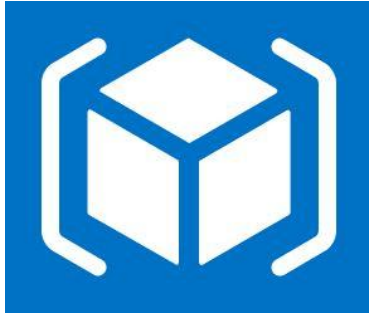


CHEF™

...and more

pulumi

Most popular IaC tools for provisioning Azure resources



HashiCorp

Terraform

Ask

Discuss

Comment

