

# Azure Infrastructure Operations

## Glossary



## Introduction to DevOps & Infrastructure

### Agile Development

A software development methodology emphasizing fast feedback and adaptability.

### Automated Testing

Testing software using predefined unit and module tests which expect certain feedback from code.

### Configuration Management

Managing and controlling changes to software and environments in a uniform and automated way.

### Continuous Delivery

The process of making software able to be released at any time.

### Continuous Integration

Integrate code into source control to get fast feedback on its development.

### DRY (or DRYness)

Don't Repeat Yourself - the principle of assuring that code is written one time and re-used.

### Infrastructure as Code

Automation of resource provisioning through software-defined infrastructure configurations.

## Azure Infrastructure Fundamentals

### Blob Storage

General purpose storage solution in Azure; designed for storing and serving unstructured data such as images, text, or other files.

### Load Balancer

A device that distributes network traffic over a number of servers.

### Virtual Machine

An emulation of a computer system. Provides the functionality of a computer without the need for dedicated hardware.

### vNIC

A virtual Network Interface Card. A virtualized representation of a computer network interface that allows a virtual machine to communicate.

### SQL Server

The most common type of database server; a powerful way to store, serve, and manage structured data.

# Azure Security Best Practices

## Azure Security Center

An infrastructure security management in the cloud and provides insight into resource compliance.

## Encryption

Converting information into a form which prevents unauthorized access.

## Network Security Group

A collection of network rules for specifying what traffic to allow in and out of a virtual network.

## Policy Assignment

An enforcement scope for a policy definition or policy initiative.

## Policy Definition

A set of rules which specify an action to take when a resource type meets a condition.

## Policy Initiative

A set of policy definitions grouped together.

## Segmentation

Separating pieces of infrastructure which do not have the same security level.

# Infrastructure as Code

## Idempotent

No matter how many times you run an operation, you will get the same result

## Packer

An image template automation and deployment tool, made by HashiCorp.

## Provisioning Software

Software which allows for resources to be created, managed, and destroyed programmatically.

## Server Templating Software

Software that allows for the specification of a server image that can be used as the foundation of a virtual machine.

## Terraform

An open-source tool for deploying resources using infrastructure as code, made by HashiCorp.