



Infraestructura As Code

IaC

-- Infrastructure as code (IaC) --

Create + Management + Delete **TECHNICAL INFRASTRUCTURE** using **CODE**. (Infra = Networking, VMs, Databases, etc.)

Type	Description	Tools
AdHoc Scripting	It's the automation of any task by writing a specific script	Python, Golang, Bash, Powershell
Configuration Management	It relies on the use of tools designed to install and manage software on existing servers.	Ansible, Puppet, Salt
Server Templating	Instead of configuring existing servers, this approach creates an image of the servers or containers and deploys them.	Docker, Packer, Vagrant
Orchestration	With the previous tools, you can create VMs and Containers, but how you manage them is where orchestration tools become useful.	Kubernetes, ECS
Provisioning	They are the tools responsible for creating the resources that are then used by other types of IaC	Terraform, Cloudformation, Pulumi

Advantages

Repeatability | Testability | Disaster Recovery
Maintainability | Transparency | Version Control

Disadvantages

Learning Curve