If you already have some DevOps experience, visit the detailed version with more topics.

Visit the Detailed Version

Find the detailed version of this roadmap along with resources and other roadmaps

https://roadmap.sh

DevOps

What is DevOps?

DevOps is all about bringing developers and operations teams together to improve software delivery. The key focus areas are automation, infrastructure and monitoring.

For further details, have a look at the FAQs below.

Learn a Programming Language

Python

Go

Pick any Programming Language

You can pick any programming language. The purpose behind the language is to be able to write automation scripts to automate repetitive tasks.

Learn about the file system, package managers, managing services, checking logs, bash scripting, permissions, pipes output redirection, common tools for text manipulation process monitoring, networking tools, CLI editors etc.

Pick Ubuntu if you have a little to no experience.

Linux

Networking and Protocols

Learn about DNS, TCP/IP Protocols, SSH, ports, gateways, routing, ip addressing, and subnetting etc.

This will come in handy with deployments / troubleshooting

Learn about containerization. Be comfortable writing Docker files. Learn about troubleshooting. Get familiar with Alpine Linux. Learn about networking, storage, security.

Learn docker networking, storage, security, performance.

Docker

DevOps teams usually practice "git ops," i.e., making changes to your CI/CD pipeline, infrastructure, or server provisioning will involve making a pull request against the appropriate git repository.

Learn about git, create your GitHub profile.

Git

AWS

Pick one of the cloud providers AWS, GCP or Azure. Start with core services e.g. in AWS VPC, EC2, S3, IAM and later RDS, Route53, Cloudwatch, ECS, etc.

Create and deploy some dummy application to AWS.

Learn what "Infrastructure as Code" means. Learn about terraform and how to automate infrastructure creation.

If you deployed an application to AWS in previous step destroy the infrastructure and create it using terraform.

Terraform

Ansible

Learn what is configuration management. Understand roles, playbooks, inventory management and automation.

Write some automation scripts e.g. db backups.

Learn about the concepts of CI/CD and how to implement in your projects using some CI/CD tool. There are several options available in this space, you can pick any one.

Integrate CI/CD into your apps using GitHub Actions.

GitHub Actions

Nginx

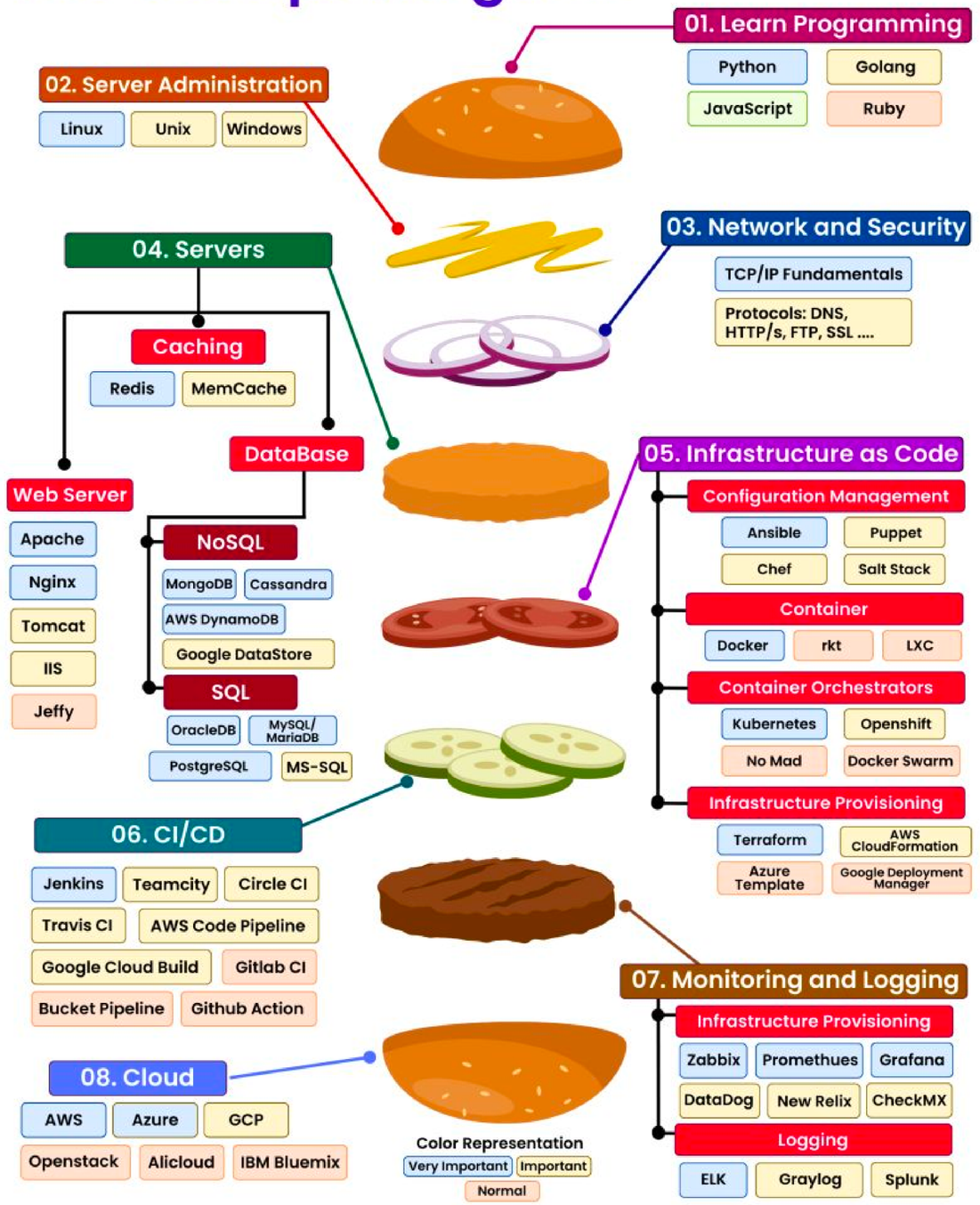
nginx is commonly used for web serving, reverse proxying, caching, load balancing, media streaming, and more.

Learn the basic config options, TLS setup etc.

DEV OPS

https://roadmap.sh/devops

The DevOps Burger !!



by Rocky Bhatia

LINUX OS

Comandos básicos linux
Scripting (bash, python,go)

GIT

Github
Gitlab

CONTENDORES

Docker Basico
Seguridad
Deep Dive

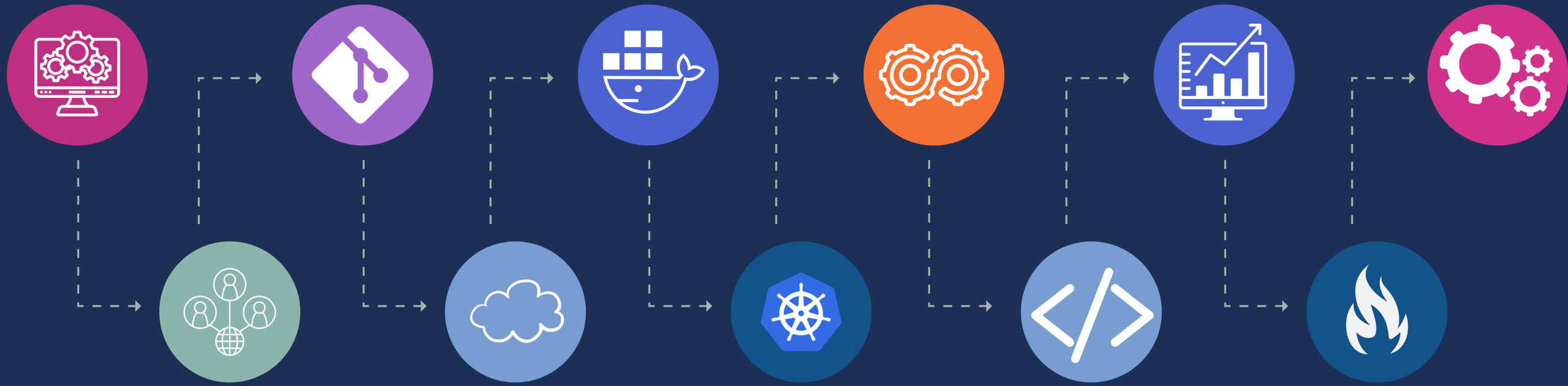
CICD TOOLS

Jenkins
Gitlab
Github-Actions

OBSERVABILIDAD

Monitoreo: Prometeus, Grafana, Thanos, Zabbix
Logging: Elastic

SERVICE MESH



NETWORKING

TCP/IP, Protocolos: DNS, HTTPS. SSL

CLOUD PROVIDER

AWS
GCP
AZURE

ORQUESTACION CONTENEDORES

Kubernetes

INFRAESTRUSTURA COMO CODIGO

Terraform,
Cloudformation, Pulumi
Gestion de la configuración: Ansible

CHAOS ENGINEERING

Chaos mesh
Litmus

DevOps Roadmap