

✔

Personal Recommendation / Opinion

✔

Alternative Option - Pick this or purple

✔

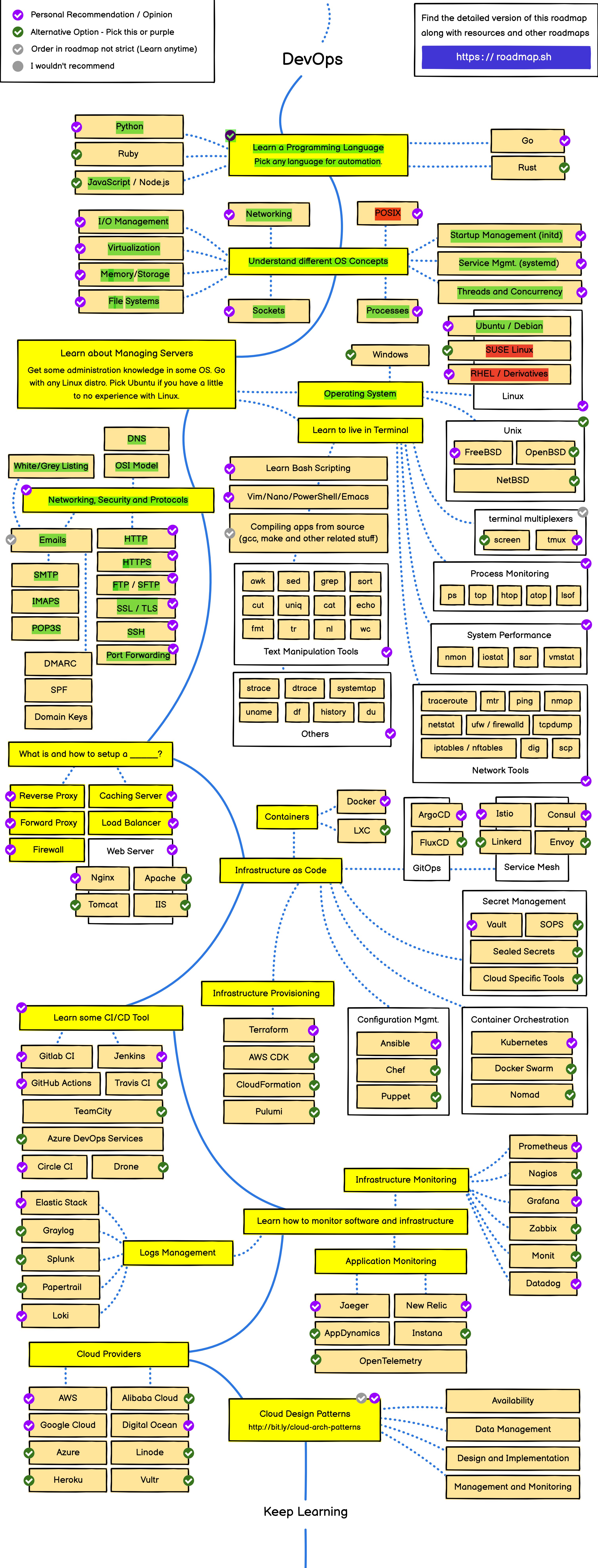
Order in roadmap not strict (Learn anytime)

●

I wouldn't recommend

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

https://roadmap.sh



✔

I/O Management

✔

Virtualization

✔

Memory/Storage

✔

File Systems

✔

Networking

✔

Understand different OS Concepts

✔

POSIX

✔

Sockets

✔

Processes

✔

Windows

✔

Linux

✔

Operating System

✔

Learn to live in Terminal

✔

Learn Bash Scripting

✔

Vim/Nano/PowerShell/Emacs

✔

Compiling apps from source  
(gcc, make and other related stuff)

✔

Text Manipulation Tools

✔

Others

✔

Containers

✔

Infrastructure as Code

✔

Infrastructure Provisioning

✔

Configuration Mgmt.

✔

Container Orchestration

✔

Secret Management

✔

Logs Management

✔

Application Monitoring

✔

Cloud Providers

✔

Cloud Design Patterns

✔

Startup Management (initd)

✔

Service Mgmt. (systemd)

✔

Threads and Concurrency

✔

Ubuntu / Debian

✔

SUSE Linux

✔

RHEL / Derivatives

✔

FreeBSD

✔

OpenBSD

✔

NetBSD

✔

terminal multiplexers

✔

screen

✔

tmux

✔

Process Monitoring

✔

ps

✔

top

✔

htop

✔

atop

✔

lsof

✔

System Performance

✔

nmon

✔

iostat

✔

sar

✔

vmstat

✔

Network Tools

✔

traceroute

✔

mtr

✔

ping

✔

nmap

✔

netstat

✔

ufw / firewalld

✔

tcpdump

✔

iptables / nftables

✔

dig

✔

scp

✔

ArgoCD

✔

Istio

✔

Consul

✔

FluxCD

✔

Linkerd

✔

Envoy

✔

GitOps

✔

Service Mesh

✔

Vault

✔

SOPS

✔

Sealed Secrets

✔

Cloud Specific Tools

✔

Kubernetes

✔

Docker Swarm

✔

Nomad

✔

Prometheus

✔

Nagios

✔

Grafana

✔

Zabbix

✔

Monit

✔

Datadog

✔

Jaeger

✔

New Relic

✔

AppDynamics

✔

Instana

✔

OpenTelemetry

✔

AWS

✔

Alibaba Cloud

✔

Google Cloud

✔

Digital Ocean

✔

Azure

✔

Linode

✔

Heroku

✔

Vultr

✔

Reverse Proxy

✔

Caching Server

✔

Forward Proxy

✔

Load Balancer

✔

Firewall

✔

Web Server

✔

Nginx

✔

Apache

✔

Tomcat

✔

IIS

✔

What is and how to setup a \_\_\_\_\_?

✔

Reverse Proxy

✔

Caching Server

✔

Forward Proxy

✔

Load Balancer

✔

Firewall

✔

Web Server

✔

Nginx

✔

Apache

✔

Tomcat

✔

IIS

✔

Learn some CI/CD Tool

✔

Gitlab CI

✔

Jenkins

✔

GitHub Actions

✔

Travis CI

✔

TeamCity

✔

Azure DevOps Services

✔

Circle CI

✔

Drone

✔

Elastic Stack

✔

Graylog

✔

Splunk

✔

Papertrail

✔

Loki

✔

Cloud Providers

✔

AWS

✔

Alibaba Cloud

✔

Google Cloud

✔

Digital Ocean

✔

Azure

✔

Linode

✔

Heroku

✔

Vultr

✔

Cloud Design Patterns

✔

Availability

✔

Data Management

✔

Design and Implementation

✔

Management and Monitoring

✔

White/Grey Listing

✔

DNS

✔

OSI Model

✔

Networking, Security and Protocols

✔

Emails

✔

HTTP

✔

HTTPS

✔

SMTP

✔

FTP / SFTP

✔

SSL / TLS

✔

SSH

✔

Port Forwarding

✔

DMARC

✔

SPF

✔

Domain Keys

Keep Learning

# DevOps

Learn a Programming Language  
Pick any language for automation.

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<http://bit.ly/cloud-arch-patterns>

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