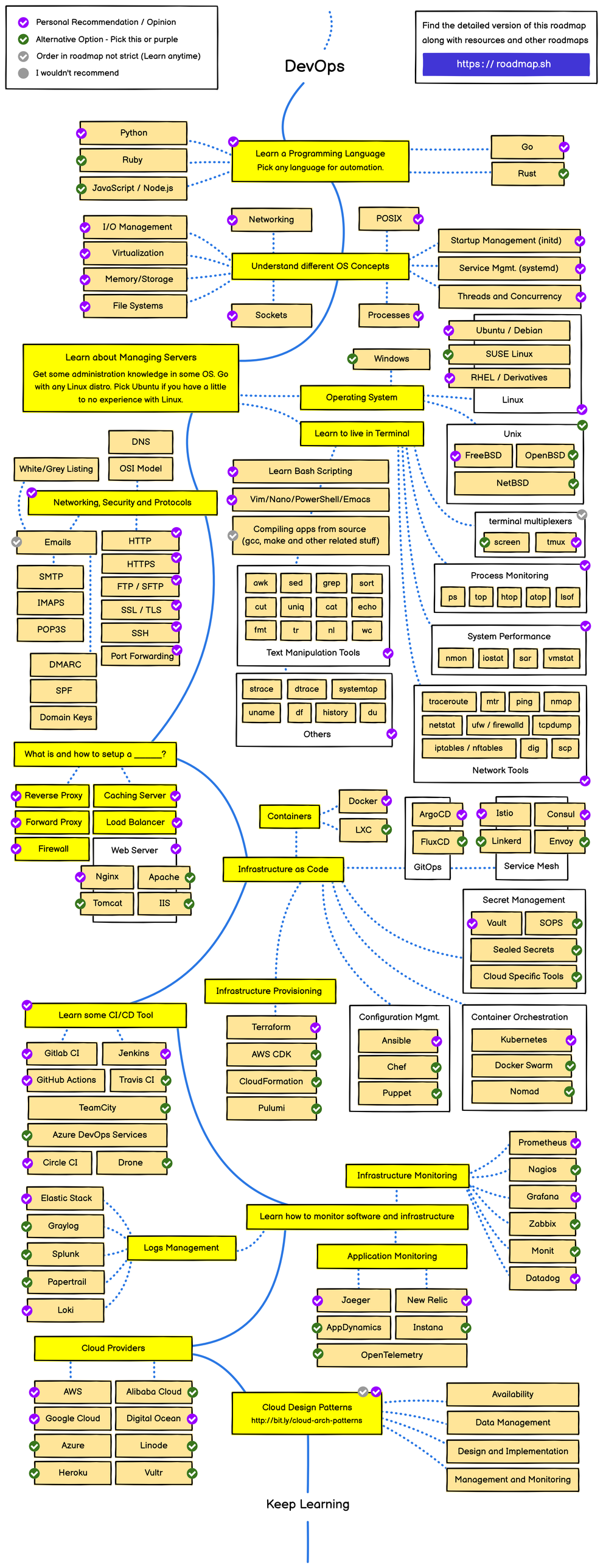
Personal Recommendation / Opinion
Alternative Option - Pick this or purple
Order in roadmap not strict (Learn anytime)
I wouldn't recommend
DevOps
Find the detailed version of this roadmap along with resources and other roadmaps
https://roadmap.sh
Learn a Programming Language
Pick any language for automation.
Python
Ruby
JavaScript / Node.js
Go
Rust
Understand different OS Concepts
I/O Management
Virtualization
Memory/Storage
File Systems
Networking
Sockets
POSIX
Processes
Startup Management (initd)
Service Mgmt. (systemd)
Threads and Concurrency
Learn about Managing Servers
Get some administration knowledge in some OS. Go with any Linux distro. Pick Ubuntu if you have a little to no experience with Linux.
Operating System
Windows
Linux
Ubuntu / Debian
SUSE Linux
RHEL / Derivatives
Unix
FreeBSD
OpenBSD
NetBSD
Learn to live in Terminal
terminal multiplexers
screen
tmux
Learn Bash Scripting
Vim/Nano/PowerShell/Emacs
Compiling apps from source (gcc, make and other related stuff)
Text Manipulation Tools
awk
sed
grep
sort
cut
uniq
cat
echo
fmt
tr
nl
wc
Process Monitoring
ps
top
htop
atop
lsof
System Performance
nmon
iostat
sar
vmstat
Others
strace
dtrace
systemtap
uname
df
history
du
Network Tools
traceroute
mtr
ping
nmap
netstat
ufw / firewalld
tcpdump
iptables / nftables
dig
scp
Networking, Security and Protocols
DNS
OSI Model
White/Grey Listing
Emails
SMTP
IMAPS
POP3S
DMARC
SPF
Domain Keys
HTTP
HTTPS
FTP / SFTP
SSL / TLS
SSH
Port Forwarding
What is and how to setup a _____?
Reverse Proxy
Forward Proxy
Firewall
Caching Server
Load Balancer
Web Server
Nginx
Apache
Tomcat
IIS
Containers
Docker
LXC
Infrastructure as Code
GitOps
ArgoCD
FluxCD
Service Mesh
Istio
Consul
Linkerd
Envoy
Secret Management
Vault
SOPS
Sealed Secrets
Cloud Specific Tools
Infrastructure Provisioning
Terraform
AWS CDK
CloudFormation
Pulumi
Configuration Mgmt.
Ansible
Chef
Puppet
Container Orchestration
Kubernetes
Docker Swarm
Nomad
Learn some CI/CD Tool
Gitlab CI
Jenkins
GitHub Actions
Travis CI
TeamCity
Azure DevOps Services
Circle CI
Drone
Infrastructure Monitoring
Prometheus
Nagios
Grafana
Zabbix
Monit
Datadog
Learn how to monitor software and infrastructure
Logs Management
Elastic Stack
Graylog
Splunk
Papertrail
Loki
Application Monitoring
Jaeger
New Relic
AppDynamics
Instana
OpenTelemetry
Cloud Providers
AWS
Alibaba Cloud
Google Cloud
Digital Ocean
Azure
Linode
Heroku
Vultr
Cloud Design Patterns
http://bit.ly/cloud-arch-patterns
Availability
Data Management
Design and Implementation
Management and Monitoring
Keep Learning