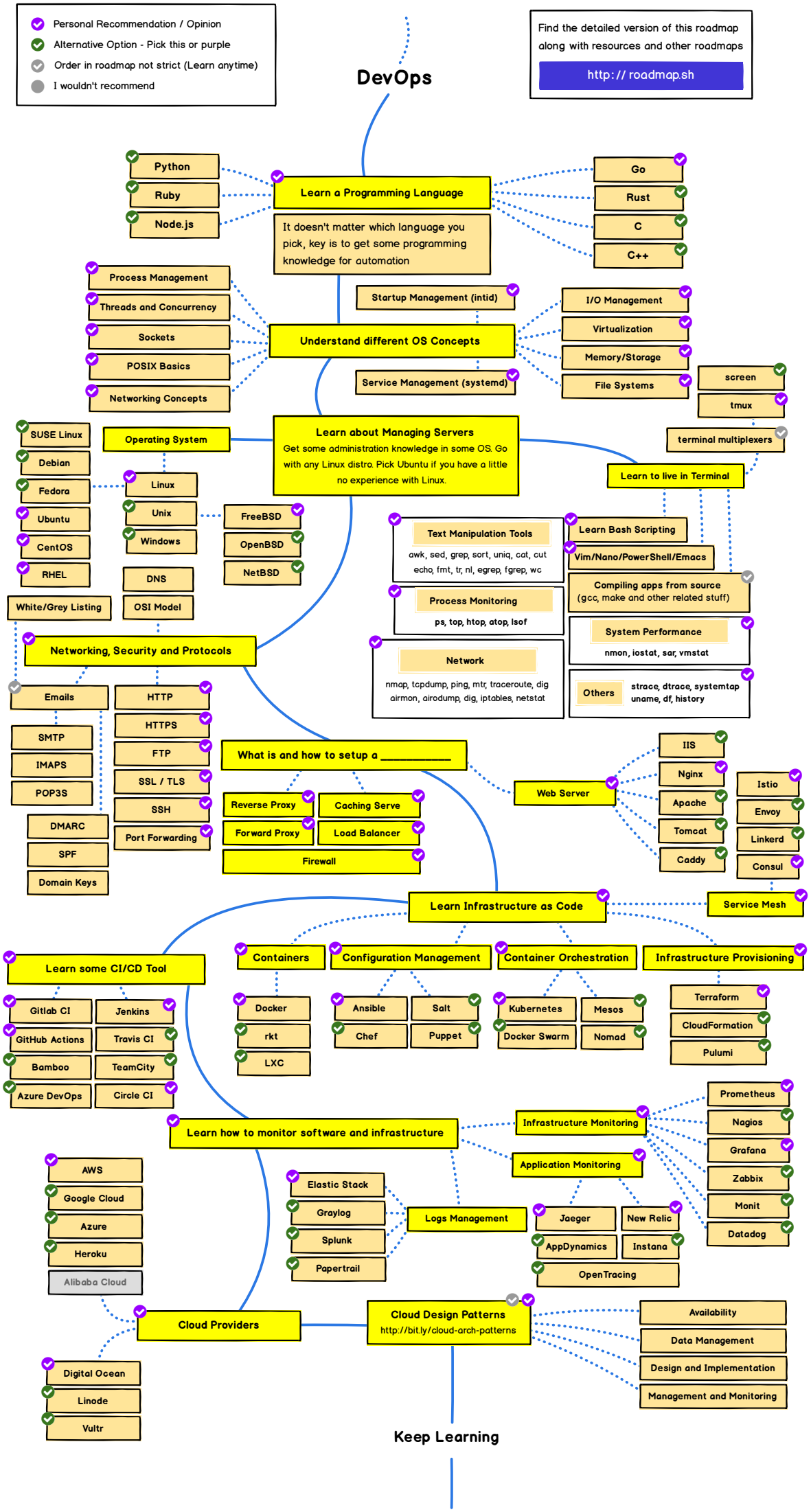
Personal Recommendation / Opinion
Alternative Option - Pick this or purple
Order in roadmap not strict (Learn anytime)
I wouldn't recommend
DevOps
Find the detailed version of this roadmap along with resources and other roadmaps
http:// roadmap.sh
Learn a Programming Language
It doesn't matter which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