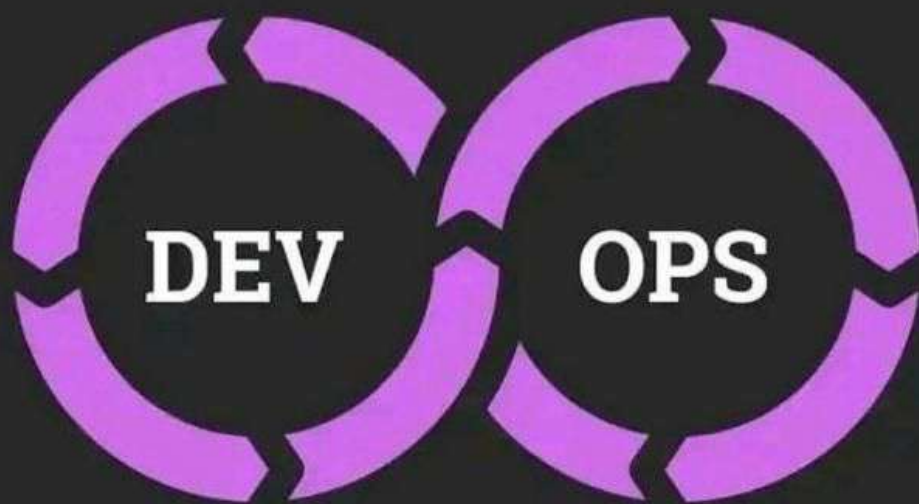# How to Master
DevOps in 2022

Programming languages to learn include:

- Go (recommended)
- Ruby
- Python
- Node.js

2. Study operating systems

Study the popular OS include:

- Linux (recommended)
- Unix
- Windows

OS concepts to learn include:
- Process Management
- Sockets
- Threads and Concurrency

3. Review networking security and protocols

Networking protocols to learn include:

- HTTP
- HTTPS
- SSL
- SSH

4. Understand Infrastructure as Code

IaC strategies to learn include:

- Containers
- Configuration Management
- Container Orchestration
- Infrastructure Provisioning

5. Adopt Continuous Integration/ Continuous Deployment tools

Continuous Integration and Continuous Deployment (CI/CD) is a central principle that DevOps is founded on: the integration of development and operations as well as constant iterations

CI/CD tools to learn include:

- GitHub
- GitLab
- Bamboo
- Jenkins

6. Invest in application and infrastructure monitoring

i) Application Monitoring

Application monitoring tools to learn include:

- Prometheus (recommended)
- Nagios
- Datadog

ii) Infrastructure Monitoring

Infrastructure monitoring tools to learn include:

- New Relic (recommended)
- Jaeger
- AppDynamics

7. Study cloud providers

Cloud providers to learn include:

- AWS (recommended)
- Azure
- Google Cloud
- Heroku

8. Learn cloud design patterns

Cloud design patterns to learn include:

- Availability
- Data Management
- Design and Implementation