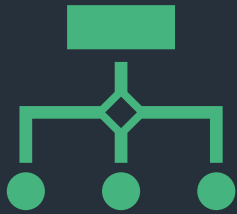


# Infrastructure as code with Terraform

Present by Wing Chan



# Agenda



What is Infrastructure as  
Code (IaC)?



What is Terraform?



Demo

# What's Infrastructure as Code (IaC)?

- Definition: IaC is the process of managing and provisioning your IT infrastructure through declarative definition files, rather than physical hardware configuration or interactive configuration tools.
- Benefits:

## Speed

- Enabling you quickly set up your complete infrastructure by running a script per each environment. It makes SDLC more efficient.

## Consistency

- Avoid manually configuring per environment. All infrastructure settings come from the same set of configuration files.

## Traceability

- Since you can version IaC configuration files like any source code file, you have full traceability of their changes.

## Lower cost

- Infrastructure deployments are repeatable, scalable and can be fully automated.

# What is Terraform?



- An open-source tool created by HashiCorp and released in 2014. Using a *declarative* configuration language aka *HashiCorp Configuration Language* (HCL) to manage infrastructure as code.
- It supports an extensive list of cloud infrastructure *providers* such as AWS, Azure, GCP, etc.
- Workflow:



Init



Plan



Apply



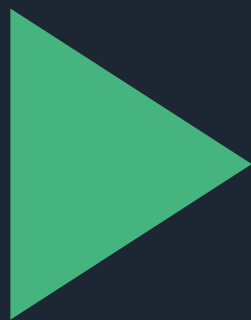
(Destroy)



Terraform Config Files (.tf)

Terraform CLI

Cloud Infrastructure



# Terraform Demos

