Terraform

* Infrastructure as code
* Terraform is a cloud agnostic tool. Can deploy to any cloud and providers.
* - Can be stored in version control systems e.g. git

**Infrastructure orchestration (io) vs config management (cm)**

* IO are tools that provision and manage infrastructure resources. E.g. terraform, AWS CloudFormation
* It focuses on creating and wiring resources
* Used to spin up identical environments (dev, stag, prod) and reproducible infra deployments
* CM are tools that configure software and operations on servers after they exist. e. g ansible, chef
* Focuses on what happens in servers
* Used for consistent package installs, users, permissions. Enforcing security hardening and rolling out app config changes.

Terraform

* User deploys infrastructure as code using terraform
* User runs a plan – tells you exactly what your code is trying to do. Has resources you’re trying to create.
* User then uses apply – Runs exactly what you need to deploy your resources into the cloud.
* AWS, Microsoft azure, GCP, Google Cloud Platform – Cloud providers where you can create, update and version your resources.