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## Terraform

Level	Duration
Introduction	16 hours

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## Content

### Terraform 16 Hours

- What is IAC
- Challenges
- Terraform Architecture
  - Core
  - Plugin
  - API
  - Providers
- Install Terraform
  - Support multiple versions
- Directory Structure
  - File Structure
- CLI / Commands
  - init
  - plan
  - apply
  - destroy
  - **import**
  - console
  - show
  - taint
  - untaint
- LifeCycle
- HCL basics
  - Syntax
  - Block
  - Providers
  - Modules
  - Functions
- State
  - Backend

- Local
- Remote

#### Variables

- Input
  - Output
  - DataTypes
  - Local variables
  - data
- 
- Resources
    - Working with modules
- 
- Terraform main functions
    - Count
    - Loops
    - Collections
    - File System
    - Slice
    - ForEach
    - count
- 
- Vault / Secret manager
  - Templates
  - Terraform Registry
    - Create and manage Terraform module
    - Create and manage cloud resources with Terraform

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### Live Demos

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- Many Live Demo(s)