

Terraform: Implement and Maintain State

- ➤ Section 7 : Implement and Maintain State
 - ➤ Describe default local backend
 - Outline state locking
 - ➤ Handle Backend Authentication Methods
 - ➤ Describe Remote State
 - ➤ Describe effect of Terraform Refresh on State
 - Understand secret management in state files

➤ Describe default local backend :

- ➤ "Backend" in Terraform determines how state is loaded and how an operation such as apply is executed.
- ➤ By default, Terraform uses the "local" backend.
- ➤ Backends can store their state remotely and protect that state with locks to prevent corruption.
- ➤ State is retrieved from backends on demand and only stored in memory.
- ➤ User can successfully use Terraform without ever having to learn or use backends.

➤ Outline state locking:

- ➤ State locking happens automatically on all operations that could write state.
- ➤ User can disable state locking for most commands with the -lock flag.
- ➤ User can execute force unlock to unlock the state.

- ➤ Describe effect of Terraform Refresh on State :
- ➤ Terraform refresh is used to refresh the Terraform State files.
- ➤ This does not modify infrastructure, but does modify the state file.

- > Sensitive Data in State:
- ➤ Terraform state can contain sensitive data, depending on the resources in use.
- ➤ State in local machine, stored in plain-text JSON files.
- Storing state remotely can provide better security.

Will see you in Next Lecture...

