



Terraform: Understand Terraform's Purpose

Terraform : Deployment Automation

- Section 2 : Understand Terraform's Purpose
 - Explain multi-cloud and provider-agnostic benefits
 - Explain the benefits of state

Terraform : Deployment Automation

- **Cloud Agnostic Infrastructure :**
- Cloud Agnostic means Spread/execute Infrastructure on multiple clouds.
- Flexibility is one of the greatest benefit of Cloud Agnostic Infra.
- Being cloud agnostic means that you're capable of switching tracks to a different public cloud provider, with minimal disruption to your business.
- Another reason that companies want to embrace this strategy is to avoid **vendor lock-in**.
- Terraform is cloud-agnostic and allows a single configuration to be used to manage multiple providers, and to even handle cross-cloud dependencies.

Terraform : Deployment Automation

- **Purpose and Benefits of State :**
- State is a necessary requirement for Terraform to function.
- State files are some sort of database to map Terraform config to the real world.
- Alongside the mappings between resources and remote objects, Terraform must also track metadata such as resource dependencies.
- For every plan and apply, Terraform will sync all resources in your state.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, completing the cursive word 'Thank you!' on a white surface. The hand is positioned on the right side of the frame, with the index and thumb fingers visible, holding the marker. The marker's tip is just finishing the exclamation mark. The background is a plain, light-colored surface.

See you in next lecture ...