Challenges with the current state

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Topics

- State drift
- Circle dependency
- Limited visibility of computed value

State drift

- State drift refers to a situation where the actual deployed infrastructure deviates from the expected or desired state defined in Terraform's configuration files. It occurs when changes are made to the infrastructure outside of Terraform, either manually or by other means, without updating the corresponding Terraform state.

- To address state drift, it is crucial to reconcile the differences between the current state and the actual state of the infrastructure. This can involve importing the drifted resources into Terraform, using Terraform to manage the resources going forward, or taking other appropriate actions to align the infrastructure with the desired state.

Circle dependency

- A circular dependency, also known as a circular reference or cyclic dependency, occurs when two or more resources in a system depend on each other directly or indirectly. In the context of infrastructure provisioning with Terraform, a circular dependency can arise between Terraform resources defined in the configuration files.

- Analyze the circular dependencies and restructure the resource relationships to remove the circular reference. This may involve splitting resources, introducing additional resources to break the circular chain, or redefining the dependencies.

Limited visibility of computed value

- In Terraform, computed values represent attributes or properties of resources that are derived or calculated based on other resource attributes or external data sources. While computed values are an essential part of managing infrastructure with Terraform, they can pose challenges when it comes to visibility and access.

- Define Output Values: Explicitly define output values in your Terraform configuration to expose specific computed values that you need for external consumption or use in other systems