

Use Case

A business unit needs to deploy infrastructure in support of their next gen Web based AI application. This application is a Tier 1 application.

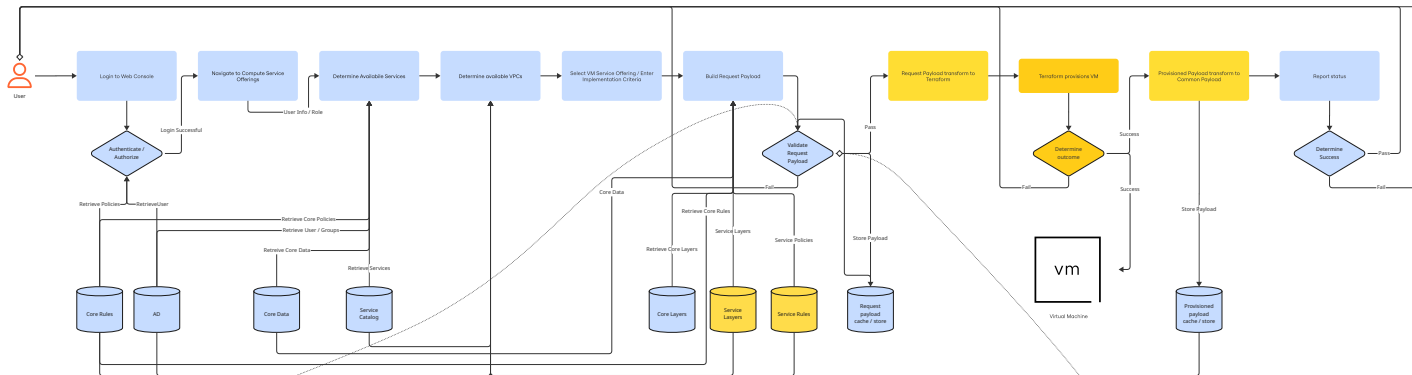
Architecture:

- 6 Web Servers
- 12 Application Servers
- 6 GPU Servers
- DBaaS for DB

Tier 1 Requirements

- Local redundancy(within Zone)
- Redundancy between at least 3 distinct physical locations (Zone)
- Redundancy between at least 3 distinct geographic locations (Region)
- Data Sovereignty must be enforced

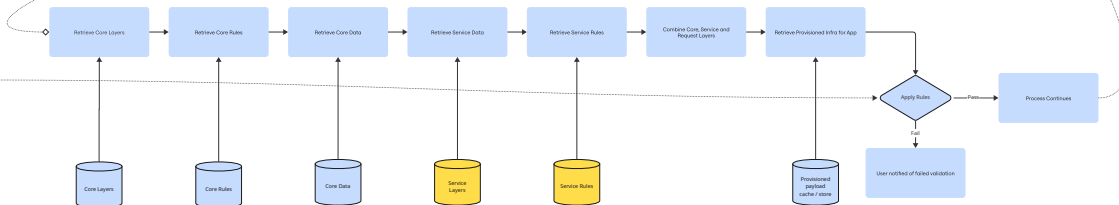
NOTE: Only the VM is provisioned in this flow. The other components would follow the same rule enforcement process. Also this assumes technology specific equivalent effect rules.



Validate Request Payload-Process

Tier 1 Rules - Logical / Validation Rules

- Ensure at least 2 Web Servers per Zone
- Ensure Web Servers are behind LTM within a Zone
- Ensure Web Servers LTM are behind a GTM
- Ensure Web Servers are in at least 3 distinct Zones
- Ensure Web Servers are in at least 3 distinct Regions
- Ensure the application servers meet the above rules.
- Ensure a DB service is selected that is qualified as a Tier 1 service offering
- If service operational configuration is also stored in DCM, then ensure no LTM / GTM / App / DB connection crosses appropriate borders.



Assertions

- Application has a UUID that identifies all constituent infrastructure / configuration
- Any existing infrastructure / configuration data is in Provisioned Payload Store
- Business unit that owns Application may have other application that are out of scope
- Tier 1 Rules are scoped to Application UUID
- Logical Rules above can exist in Core Rules and / or Service Rules