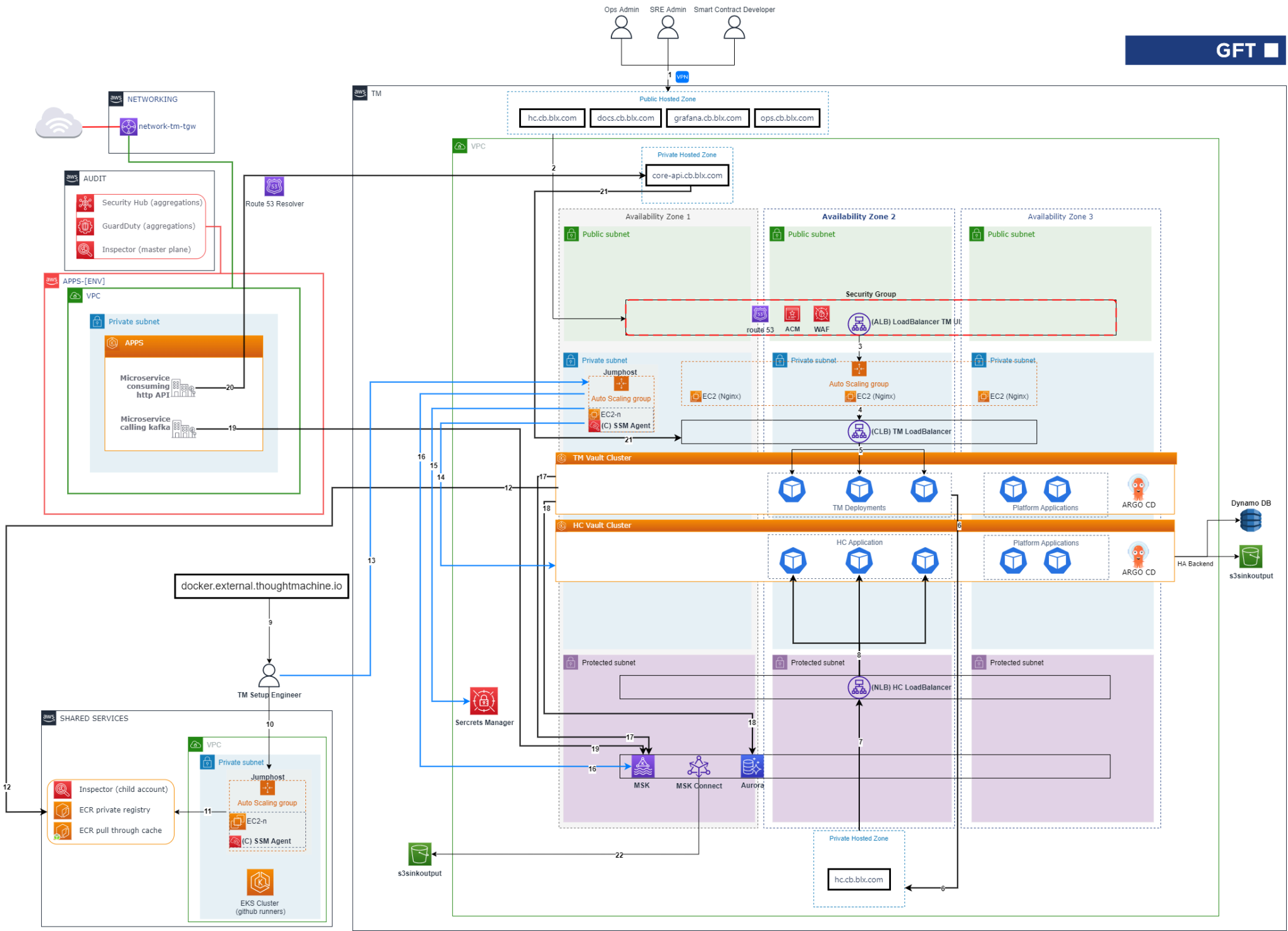


Architecture_for_TM

Last edited by [czerniga-gft](#) 8 months ago

Architecture for TM

- [Diagram of architecture for Thought Machine](#)
- [Description of architecture/flow for Thought Machine](#)
 - [Example tf / sources](#)
- Diagram of architecture for Thought Machine



Description of architecture/flow for Thought Machine

- 1 – Actors (Ops Admin/SRE Admin/Smart Contract Developer) connect to Public hosted zone Domains through VPN
- 2 – Public hosted zone Domains has access to Public TM Application Load Balancer (ALB)
- 3, 4, 5 – Public Application Load Balancer (ALB) Access TM Load Balancer (CLB) through Nginx reverse proxy servers and then connect to TM Deployments
- 6, 7, 8 – TM Deployments have access to HC Application through Private Hosted Zone hc.cb.blx.com and HC Load Balancer (NLB)
- 9 – TM Setup Engineer pulls images by migration script from docker.external.thoughtmachine.io
- 10, 11 – TM Setup Engineer is pushes images through jumphost to ECR private registry
- 12 – TM Vault Cluster pulls docker images from ECR private registry in Shared Services
- 13 – TM Setup Engineer communicates with Jumphost in Private subnet
- 14 – TM Setup Engineer (using Jumphost) downloads Secrets from HC Vault Cluster
- 15 – TM Setup Engineer (using Jumphost) registers Secrets in Secrets Manager
- 16 – TM Setup Engineer (using Jumphost) registers Secrets in MSK Kafka
- 17 – TM Vault Cluster has access to MSK Kafka
- 18 – TM Vault Cluster has access to Aurora DB
- 19 – Apps microservice has access to MSK Kafka
- 20 – Apps microservice has access to Private hosted zone domain core-api.cb.blx.com using Route 53 Resolver
- 21 – Domain core-api.cb.blx.com has access to TM Load Balancer (CLB)

Example tf / sources

Snapshot as of 11 Oct 2023 (please note that for tf modules this is head / trunk, applied configuration mightlsltlythy be differnt (earlier module versions)

tf-modules-main (6).zip

tf-sandbox-tm-networking-main.zip

k8s-tm-platform-main (1).zip

tm-automation-tools-main.zip

tf-sandbox-tm-infra-main.zip

Attachments:

■ [architecture_platform_k8s_tm (1).drawio.png](attachments/315917269/315917378.png) (image/png) ■ [architecture_platform_k8s_tm (1).drawio.png](attachments/315917269/315917416.png) (image/png) ■ [architecture_platform_k8s_tm (1).drawio.png](attachments/315917269/315917356.png) (image/png) ■ [tf-modules-main \(6\).zip](#) (application/zip) ■ [tf-sandbox-tm-networking-main.zip](#) (application/zip) ■ [k8s-tm-platform-main \(1\).zip](#) (application/zip) ■ [tm-automation-tools-main.zip](#) (application/zip) ■ [tf-sandbox-tm-infra-main.zip](#) (application/zip)