

Project Cloud Migration

SAA - 2025

Client: TFTEC Store

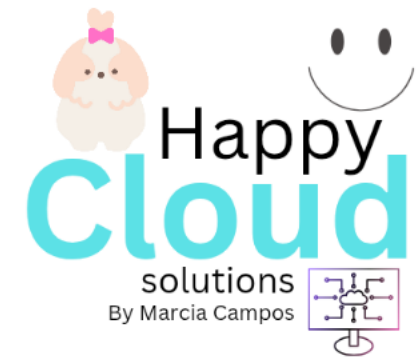


General Objectives

Migration Project

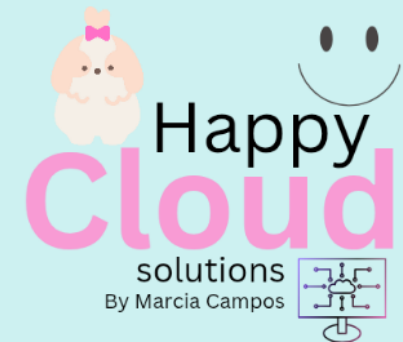
TFTEC Store

- This Project aims to find the best solutions for migrating TFTEC Store applications and databases.
- The technical scope includes the configuration of a hybrid environment, connecting the TFTEC Store's local network with its Azure environment.



Advantages – Migration Project TFTEC Store

- **Move to a better system:** The store's application will be moved to Azure, a modern and efficient system, improving speed and reliability.
- **Upgrade the database:** The store's database will be updated to a newer version on Azure, making it easier to manage and more secure.
- **Cost effectiveness:** Moving to Azure will help save money in the long run by reducing the need for expensive hardware and maintenance, and offering flexible pricing options.



Primary Goals – Migration Project

TFTEC Store



Migrate and modernize the application system to Azure: Move the application from an IaaS structure to a PaaS structure, operating on WebApp.



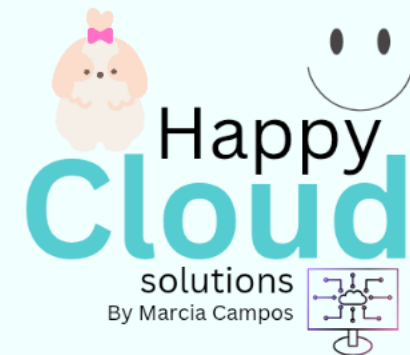
Migrate the database to Azure: Modernize and convert the database into an SQL Database (Platform as a Service), and subsequently deactivate the local database server.



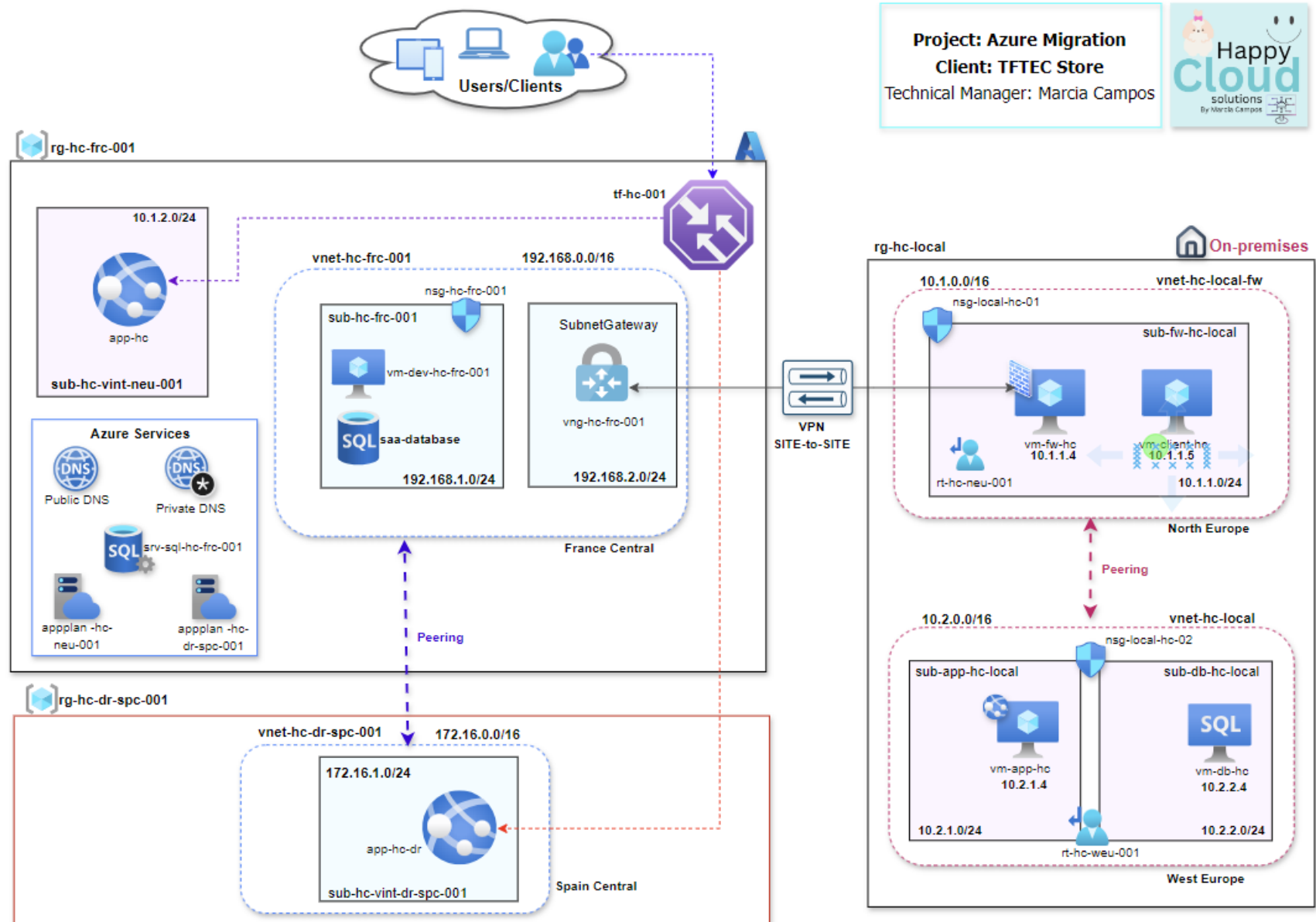
Plan and create a Disaster Recovery structure: Leverage the high availability capabilities of cloud technology to develop a comprehensive disaster recovery strategy.



Establish hybrid environment connectivity: Set up a Site-to-Site VPN Gateway to allow connectivity between the hybrid environment and the Virtual Network Gateway.



Proposed Architecture





AZURE
Architect Week
2025 - TFTEC
By Marcia Campos'Heart

Microsoft Azure Estimate


Service category	Service type	Custom name	Region	Description	Estimated monthly cost	Estimated upfront cost
Compute	Virtual Machines		France Central	1B2s (2 Cores, 4 GB RAM) x 80 Hours (Pay as you go), Windows (License included), OS Only; 1 managed disk - E10; Inter Region transfer type, 5 GB outbound data transfer from France Central to East Asia	€13,87	€0,00
Networking	VPN Gateway		France Central	VPN Gateways, VpnGw1 tier, 120 gateway hour(s), 0 additional S2S tunnels (beyond included amount), 0 additional P2S connections (beyond included amount), 50 GB, VPN VPN gateway type	€21,12	€0,00
Compute	App Service		France Central	Standard Tier; 1 S1 (1 Core(s), 1.75 GB RAM, 50 GB Storage) x 100 Hours; Windows OS; 0 SNI SSL Connections; 0 IP SSL Connections; 0 Custom Domains; 0 Standard SLL Certificates; 0 Wildcard SSL Certificates	€11,58	€0,00
Compute	App Service		Australia Central	Standard Tier; 1 S1 (1 Core(s), 1.75 GB RAM, 50 GB Storage) x 100 Hours; Windows OS; 0 SNI SSL Connections; 0 IP SSL Connections; 0 Custom Domains; 0 Standard SLL Certificates; 0 Wildcard SSL Certificates	€11,67	€0,00
Databases	Azure SQL Database		France Central	Single Database, DTU Purchase Model, Standard Tier, S0; 10 DTUs, 250 GB included storage per DB, 1 Database(s) x 100 Hours, 250 GB Storage, LRS Backup Storage Redundancy, 0 x 5 GB Long Term	€2,33	€0,00
Networking	Traffic Manager		France Central	1 million DNS queries/mo, 2 Azure endpoint(s), 2 Fast Azure endpoint(s), 0 External endpoint(s), 0 Fast External endpoint(s), 1 million(s) of user measurements, 1 million(s) of data points processed.	€4,87	€0,00
Networking	Virtual Network	Peering		France Central (Virtual Network 1): 20 GB Outbound Data Transfer; Australia Central (Virtual Network 2): 20 GB Outbound Data Transfer	€4,63	€0,00
Networking	Azure DNS	Private		Zone 1, DNS, Private; 1 hosted DNS zone, 1 DNS query	€0,83	€0,00
Networking	Azure DNS	Public		Zone 1, DNS, Public; 1 hosted DNS zone, 1 DNS query	€0,83	€0,00
Support			Support		€0,00	€0,00
				Licensing Program	Microsoft Customer Agreement (MCA)	
				Billing Account		
				Billing Profile		
				Total	€71,73	€0,00

Disclaimer

All prices shown are in Euro Zone - Euro (€) EUR. This is a summary estimate, not a quote. For up to date pricing information please visit <https://azure.microsoft.com/pricing/calculator/> This estimate was created at 4/10/2025 9:28:58 AM UTC.

Pricing Estimate

Methodology CPSDM

<div><div><div>AZURE Architect Week 2025</div><div>By Marcia Campos' Heart</div></div><div>CPSDM Validation</div></div>			
RESOURCES	GRADE	ASSESSMENT	WILL BE USED
APP SERVICE PLAN	17,5	Good performance, average security and modern	YES
TRAFFIC MANAGER	15,5	Is the only load balancer option	YES
SQL DATABASE	15,5	Very modern, flexible and intermediate cost	YES
VPN SITE-TO-SITE	15	Only option for hybrid environment connectivity	YES
VIRTUAL MACHINE	XXX	XXX	YES
OBS: The best option - Fron Door (grade - 17). But, due to trail account limitations, Traffic Manager is the only option.			



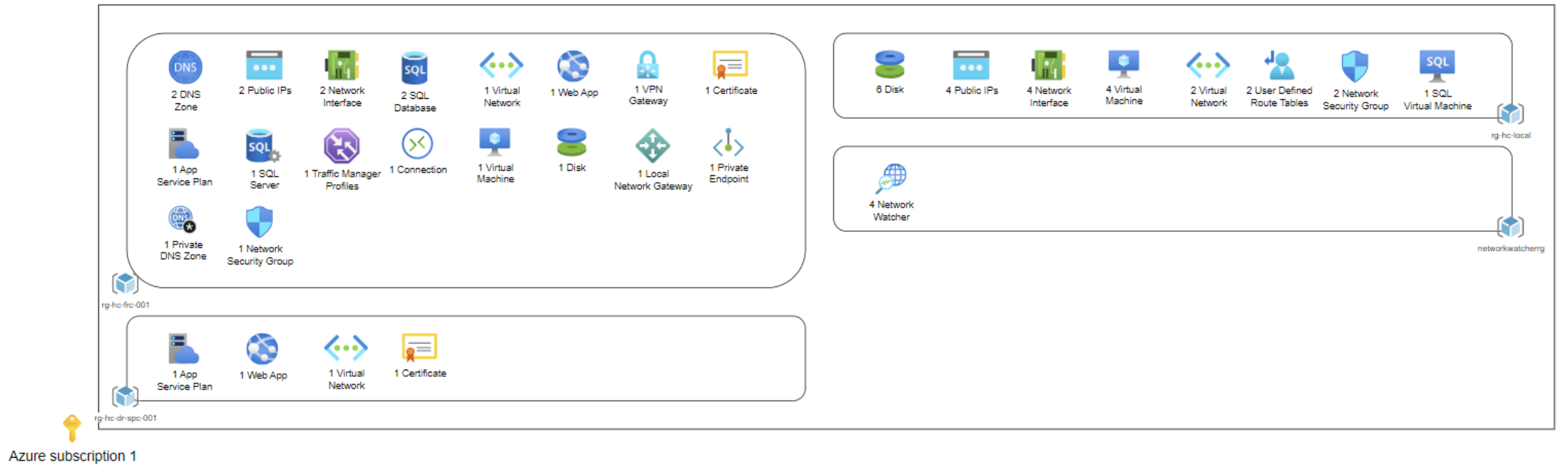
AZURE
Architect Week
2025
By Marcia Campos' Heart

Taxonomy Standards

RESOURCES	EXAMPLE TAXONOMY	DESCRIPTION
Resource Group - (rg)	rg-hc-frc-001	RG - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Virtual Machine - (vm)	vm-dev-hc-frc-001	VM-DEV - 2 to 6 characters = resource+workload HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Virtual Network - (vnet)	vnet-hc-frc-001	VNET - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Subnet - (sub)	sub-hc-frc-001	SUB - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Network Security Group - (nsg)	nsg-hc-frc-001	NSG - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Virtual Network Gateway - (vng)	vng-hc-frc-001	VNG - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances

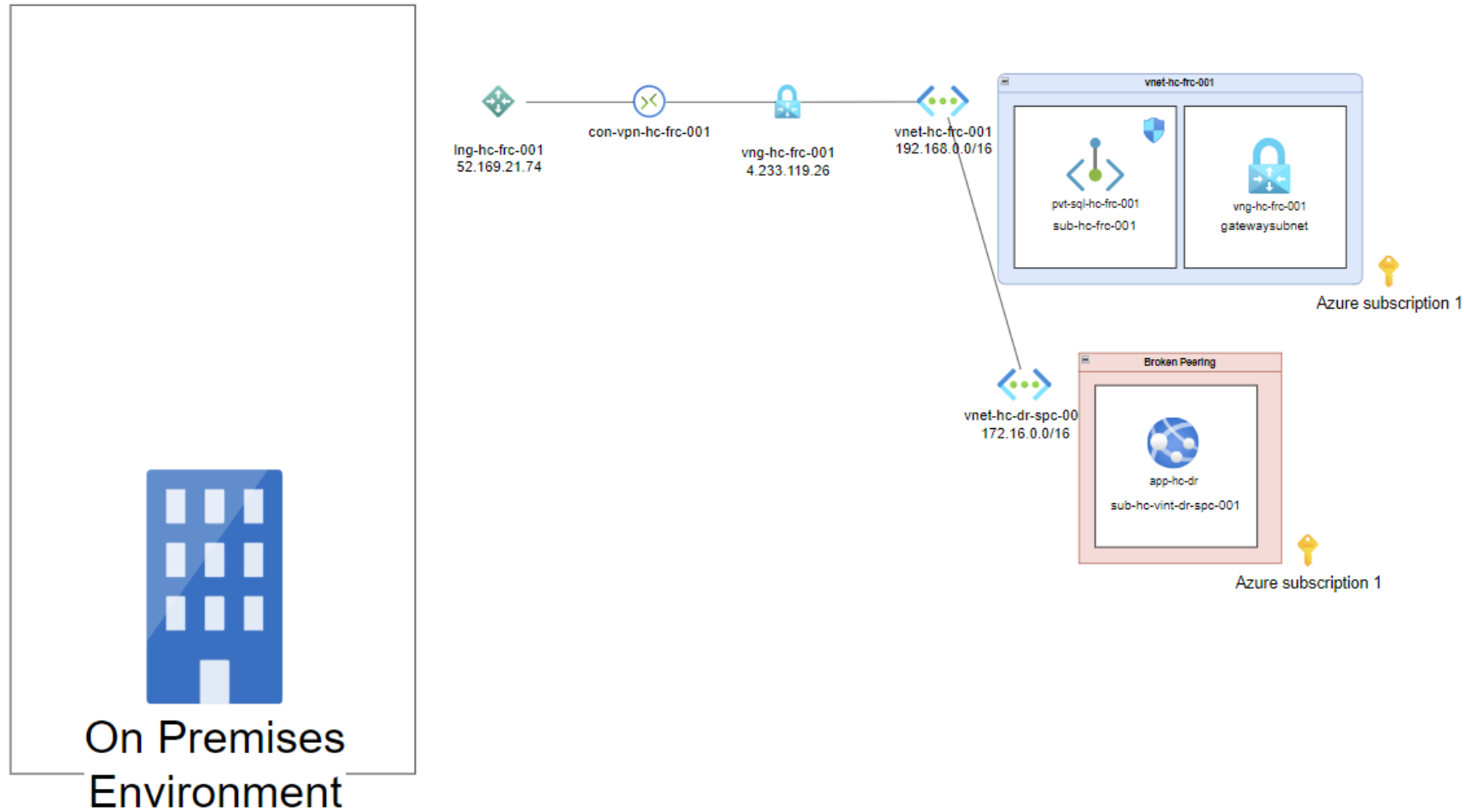
Taxonomy Standards

Public IP - (pip)	pip-vng-hc-frc-001	PIP-VNG - 2 to 6 characters = resource+workload HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Local Network Gateway	lng-hc-frc-001	LNG - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Connection VPN	con-vpn-hc-frc-001	CON-VPN - 2 to 6 characters = resource+type HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
SQL Server	srv-sql-hc-frc-001	SRV-SQL - 2 to 6 characters of the resource+type HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
App Service Plan - (appplan)	appplan -hc-frc-001	APPPLAN - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances
Disaster Recovery - (dr)	rg-hc-dr-spc-001	Always put the DR before the Region
Traffic Manager - (tm)	tf-hc-frc-001	STG - 2 to 6 characters of the resource HC - 2 environment characters FRC - 3 to 5 region characters 001 - Number of instances



Inventory Resources

Inventory Original Topology



Powered by:
Azure Resource Inventory v3.0
<https://github.com/microsoft/ARI>

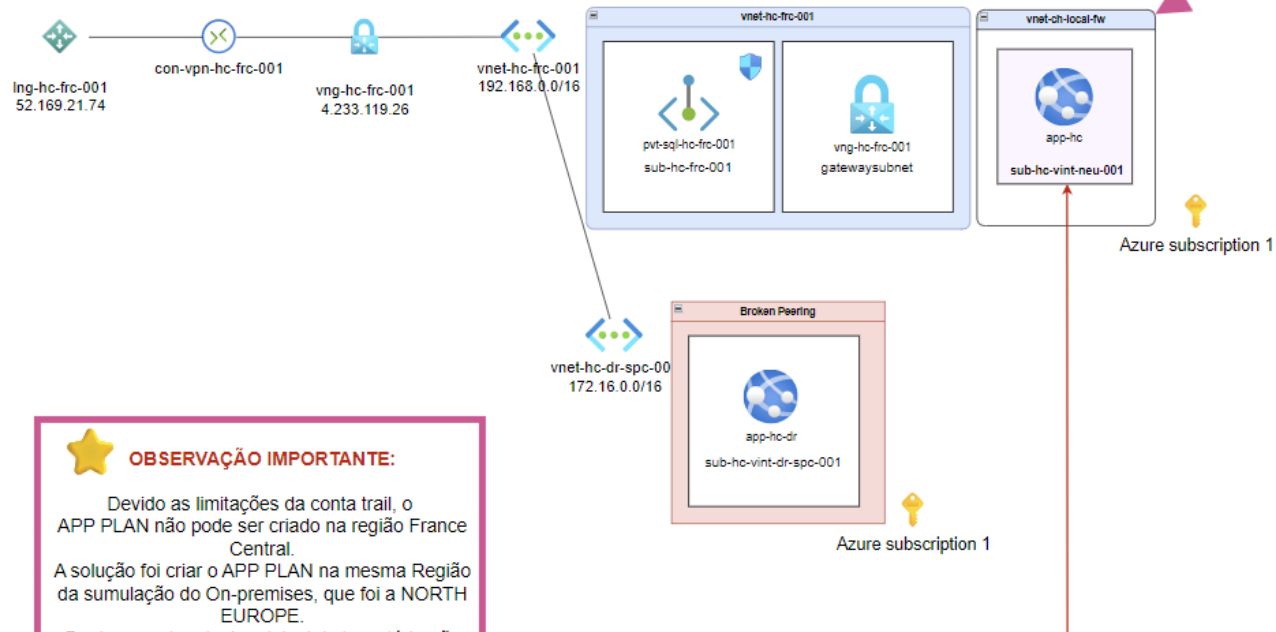




On Premises
Environment



Powered by:
Azure Resource Inventory v3.0
<https://github.com/microsoft/ARI>



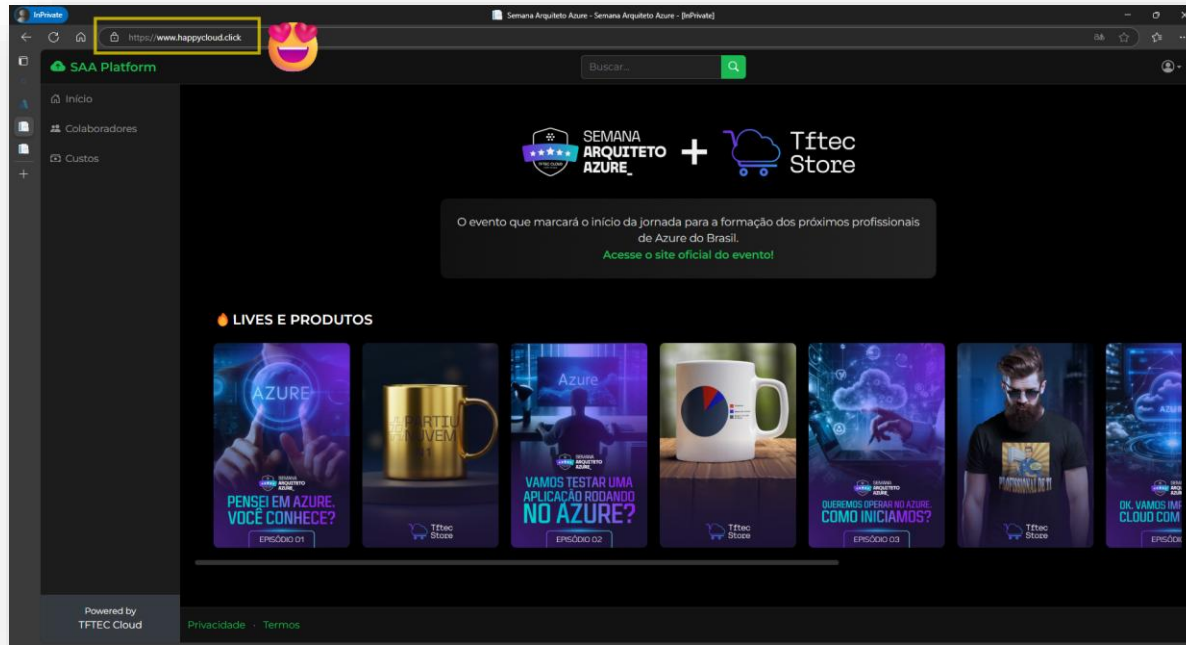
OBSERVAÇÃO IMPORTANTE:

Devido as limitações da conta trail, o APP PLAN não pode ser criado na região France Central.
A solução foi criar o APP PLAN na mesma Região da simulação do On-premises, que foi a NORTH EUROPE.
Por isso, na topologia original do inventário não apareceu o meu WEBAPP da produção (app-hc).

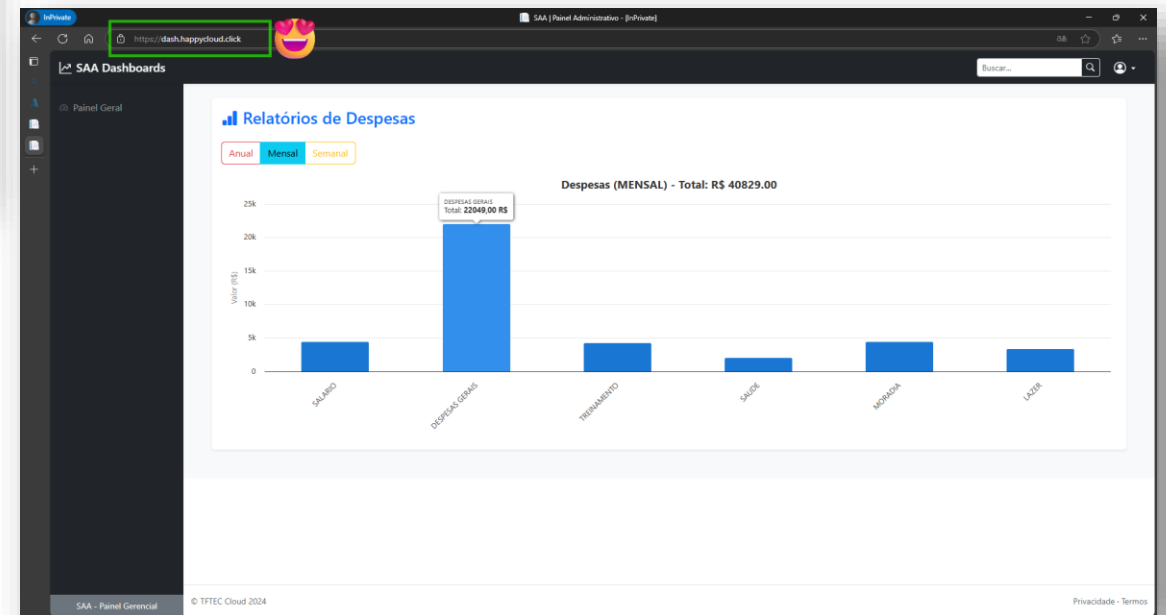
Explanation of the
Free Trial
account's
limitation
concerning the
creation of the App
Service Plan.



Access Links



Application: Sistema
<https://www.happycloud.click/>

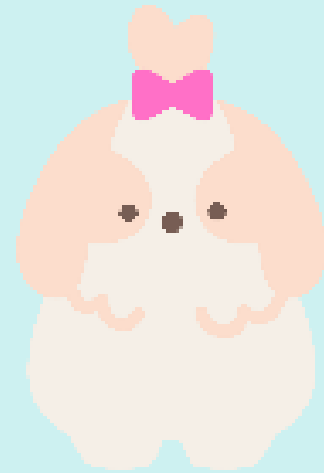


Application: Dash
<https://dash.happycloud.click/>



THANK YOU ALL

FROM MY HEART TO YOUR HEART



Happy Cloud

solutions

By Marcia Campos

