

Projeto de Migração Azure – TFTEC Cloud

Apresentação Final do Projeto

Objetivos

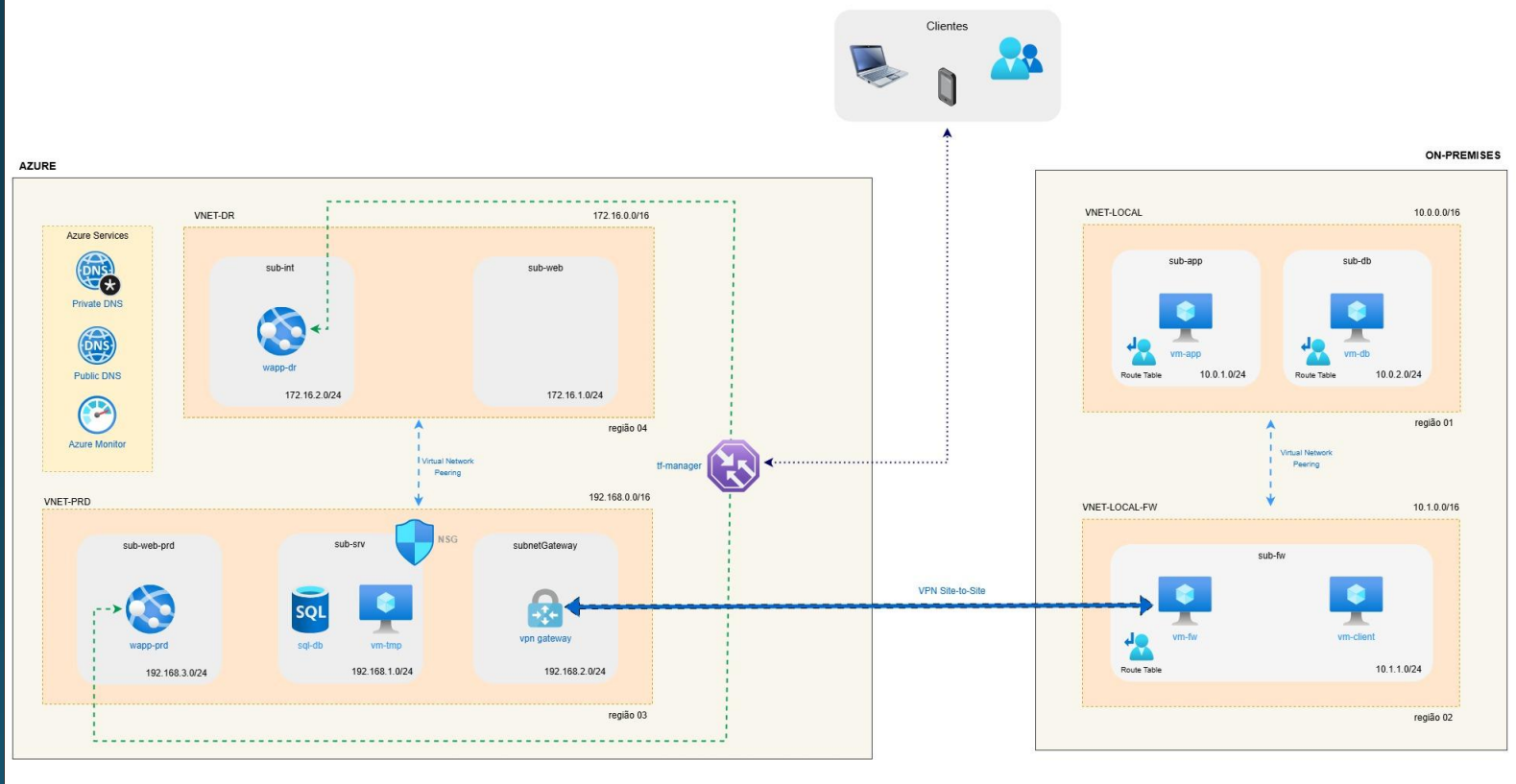
Transformar a infraestrutura local (on-premises) em um ambiente moderno, escalável e seguro na nuvem Microsoft Azure.

Principais Metas:

- **Migrar** servidores, aplicações e banco de dados do ambiente físico para o Azure.
- **Modernizar** aplicações com uso de App Services e SQL PaaS (Platform as a Service).
- **Aumentar a disponibilidade e performance**, com alta escalabilidade e menor tempo de inatividade.
- **Garantir segurança e governança**, com integração de NSG, VNETs, rotas personalizadas e padrões de taxonomia Azure.
- **Reduzir custos operacionais** e facilitar o gerenciamento da infraestrutura com recursos nativos da nuvem.

Arquitetura Proposta

Projeto: Migração Azure
Cliente: TPTEC-Store
Responsável Técnico: Maikson R dos Santos



Componentes Provisionados no Azure

- • 2 App Services (App migration)
- • 2 Virtual Networks (East US, UK South)
- • 2 Virtual Machines (Standard B2s – 2 vCPUs, 4GB RAM)
- • 1 SQL Server + 1 SQL Database (Basic, 2 GB)
- • 2 App Service Plans (Standard S1)
- • 2 Private DNS Zones + 1 Private Endpoint
- • 1 VPN Gateway + 1 IPsec Connection
- • 1 NSG (RDP e HTTPS liberados)
- • 2 IPs Públicos

Estimativa de Precificação

Microsoft Azure Estimate						
SAA						
Service category	Service type	Custom name	Region	Description	Estimated monthly cost	Estimated upfront cost
Compute	Virtual Machines	VM-TEMP	UK South	1 B2s (2 Cores, 4 GB RAM) x 70 Hours (Pay as you go), Windows (License included), OS Only; 1 managed disk – E10; Inter Region transfer type, 5 GB outbound data transfer from UK South to East Asia	R\$82,72	R\$0,00
Networking	VPN Gateway		UK South	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	R\$130,76	R\$0,00
Compute	App Service	App Services - PRD	UK South	Standard Tier; 1 S1 (1 Core(s), 1.75 GB RAM, 50 GB Storage) x 96 Hours; Windows OS; 0 SNI SSL Connections; 0 IP SSL Connections; 0 Custom Domains; 0 Standard SLL Certificates; 0 Wildcard SSL Certificates	R\$68,82	R\$0,00
Compute	App Service	App Services - DR	Canada Central	Standard Tier; 1 S1 (1 Core(s), 1.75 GB RAM, 50 GB Storage) x 96 Hours; Windows OS; 0 SNI SSL Connections; 0 IP SSL Connections; 0 Custom Domains; 0 Standard SLL Certificates; 0 Wildcard SSL Certificates	R\$60,56	R\$0,00
Databases	Azure SQL Database		UK South	Single Database, DTU Purchase Model, Standard Tier, S0: 10 DTUs, 250 GB included storage per DB, 1 Database(s) x 96 Hours, 250 GB Storage, LRS Backup Storage Redundancy, 0 x 5 GB Long Term Retention	R\$13,88	R\$0,00
Networking	Traffic Manager		UK South	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.	R\$30,17	R\$0,00
Networking	Virtual Network			UK South (Virtual Network 1): 20 GB Outbound Data Transfer; Canada Central (Virtual Network 2): 20 GB Outbound Data Transfer	R\$16,06	R\$0,00
Networking	Azure DNS	Azure DNS - Private		Zone 1, DNS, Private: 1 hosted DNS zone, 1 DNS query	R\$5,16	R\$0,00
Networking	Azure DNS	Azure DNS - Public		Zone 1, DNS, Public: 1 hosted DNS zone, 1 DNS query	R\$5,16	R\$0,00
DevOps	Azure Monitor		UK South	Log analytics: Log Data Ingestion: 0.2 GB Daily Basic logs, 0.2 GB Daily Analytics logs ingested, 1 months of Interactive Retention, 0 months of Retention, 0 GB data restored for 0 days, 0 queries per day with 0 GB data scanned per query, 0 GB of Log Data Exported per day, Platform Log Data Processed per day; 0 GB with Destination to Storage or Event Hub and 0 GB with Destination to Marketplace Partners, 0 Search job Queries per day with 0 GB data scanned per query; 0 SCOM MI Endpoints; Managed Prometheus: Using default collection estimation method (with a cluster of (0) linux nodes, (1) Windows nodes, (2) containers, and (3) pods), 0 Average daily Dashboards users, 7 Dashboards, 50000 Data samples queried per dashboard, 25 promql alerting rules, 25 promql recording rules; Application Insights: 0.2 GB Daily Analytics logs ingested, 3 months Data retention, 2 Standard Web Tests, 5 Minutes Execution frequency, Executing for 730 hours; 5 resources monitored X 1 metric time-series monitored per resource, 5 Minutes Log Signal frequency with 0 log signals monitored and 1 time series per signal, 0 Additional events (in thousands), 0 Additional emails (in 100 thousands), 0 Additional push notifications (in 100 thousands), 0 Additional web hooks (in millions)	R\$120,21	R\$0,00
Support			Support		R\$0,00	R\$0,00
			Licensing Program	Microsoft Customer Agreement (MCA)		
			Billing Account			
			Billing Profile			
			Total		R\$533,51	R\$0,00

Validação CPSDM



SEMANA
ARQUITETO
AZURE_


CPSDM



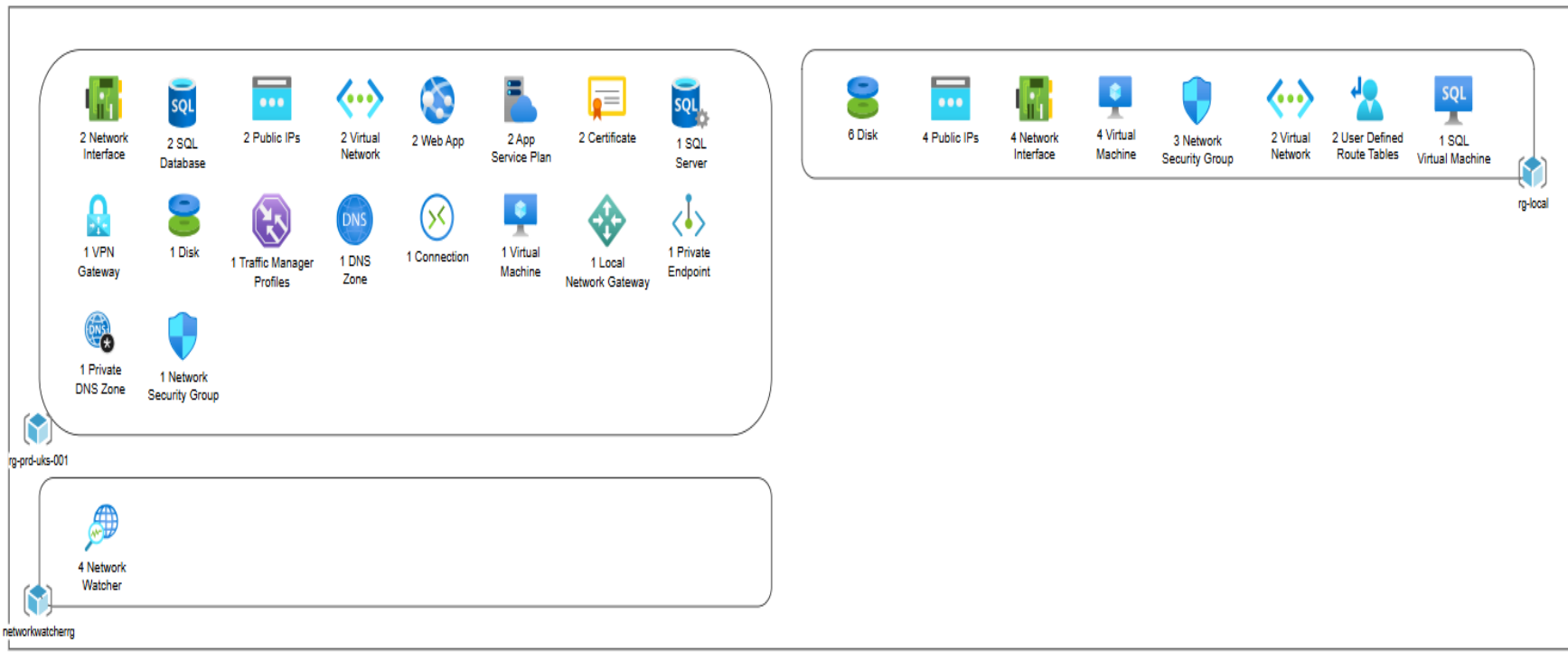
TFTEC CLOUD

RECURSO	NOTA	AVALIAÇÃO	SERÁ USADO
App Service Plan	17.5	Elemento mais moderno e seguro com bom custo benefício	SIM
SQL Database	16.5	Elemento mais moderno e seguro com bom custo benefício	SIM
Traffic Manager	12	Única opção de LB Global no momento	SIM
VPN Site to Site	15	Único meio de conectividade para o ambiente híbrido	SIM
Virtual Machine	12	Utilizada apenas no cenário de testes	SIM

Padrões de Taxonomia

 SEMANA ARQUITETO AZURE			Padrões de Taxonomia TFTEC Cloud		
RECURSO	TAXONOMIA EXEMPLO	DESCRIÇÃO			
RESOURCE GROUP	RG-PRD-UKS-001	RG – 2 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias	LOCAL NETWORK GATEWAY	LNG-PRD-UKS-001	LNG – 3 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias
VIRTUAL MACHINE (VM)	VM-PRD-TMP-UKS-001	VM – 2 caracteres do recurso PRD - 3 caracteres do ambiente TMP – 3 caracteres do workload UKS – até 5 caracteres da região 001 – Quantidade de instancias	CONNECTION VPN	CON-VPN-PRD-UKS-001	CON – 3 caracteres do recurso VPN - Tipo de recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias
VIRTUAL NETWORK (VNET)	VNET-DR-CANC-001	VNET – 4 caracteres do recurso DR - 2 caracteres do ambiente CANC – até 4 caracteres da região 001 – Quantidade de instancias	APP SERVICE PLAN	APLAN-DR-CANC-001	APLAN – 4 caracteres do recurso DR - 2 caracteres do ambiente CANC – até 4 caracteres da região 001 – Quantidade de instancias
VIRTUAL NETWORK (VNET)	VNET-PRD-UKS-001	VNET – 4 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias	APP SERVICE PLAN	APLAN-PRD-UKS-001	APLAN – 4 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias
SUBNET	SNET-PRD-UKS-001	SNET – 4 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias	SQL SERVER	SRV-SQL-PRD-UKS-001	SRV – 3 caracteres do recurso SQL - Tipo de banco PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias
NETWORK SECURITY GROUP (NSG)	NSG-PRD-UKS-001	NSG – 3 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias	TRAFFIC MANAGER	TFM-PRD-042	TFM – 3 caracteres do recurso PRD - 3 caracteres do ambiente 042 – nome único da instancia
VIRTUAL NETWORK GATEWAY	VNG-PRD-UKS-001	VNG – 3 caracteres do recurso PRD - 3 caracteres do ambiente UKS – até 5 caracteres da região 001 – Quantidade de instancias			
PUBLIC IP	PIP-PRD-VNG-UKS-001	PIP – 3 caracteres do recurso PRD - 3 caracteres do ambiente VNG – 3 caracteres do workload UKS – até 5 caracteres da região 001 – Quantidade de instancias			

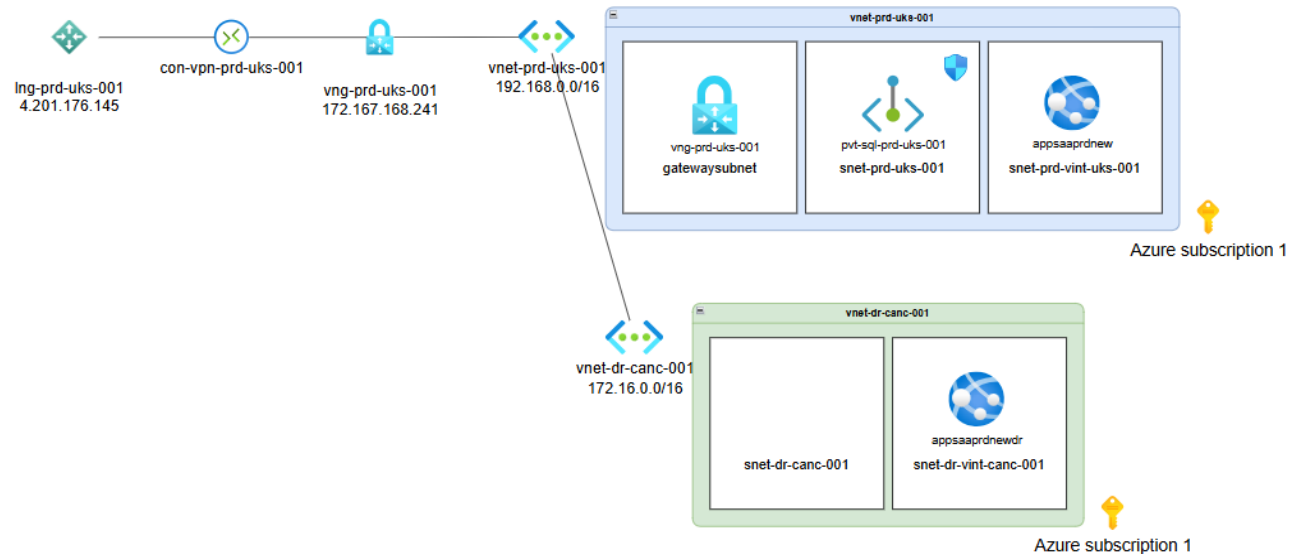
Recursos Inventariados



Topologia Inventariados



On Premises
Environment



URLs

- Sistema: <https://www.mtisystem.shop/>
- Dash: <https://dash.mtisystem.shop/>