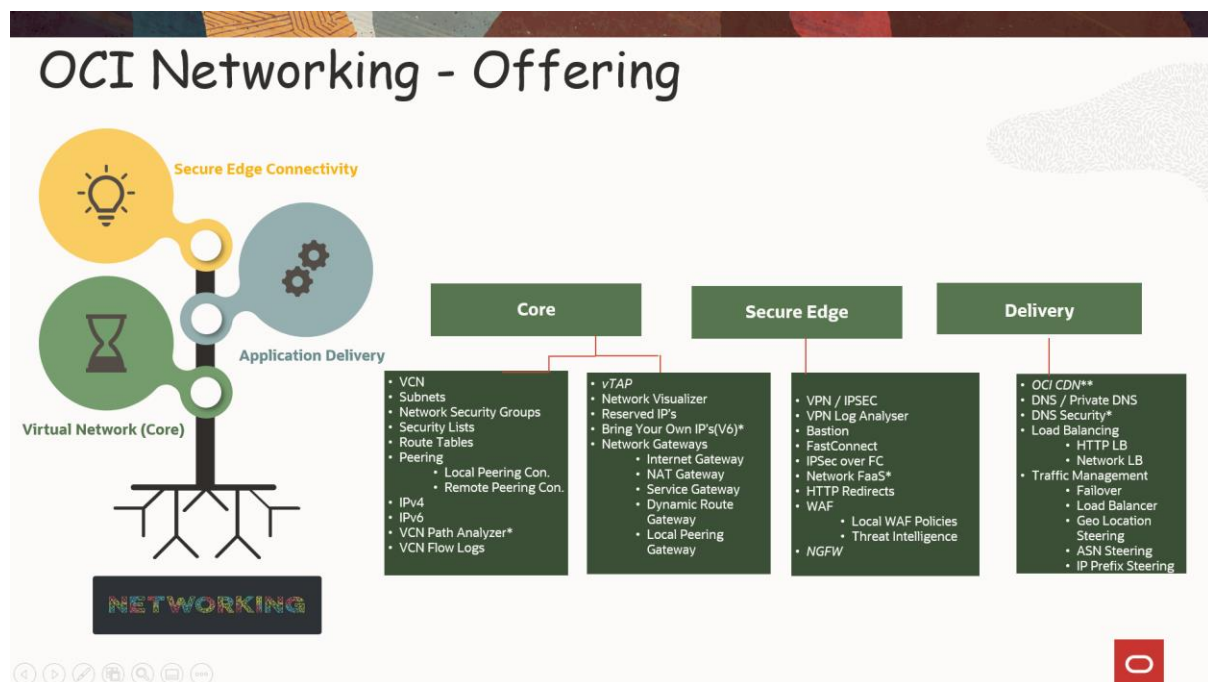## Cloud Networking

Oracle Cloud Infrastructure (OCI) networking and connectivity products and services enable customers to manage and scale their networks. Customers can connect securely to a customizable, isolated virtual cloud network (VCN), and take advantage of inexpensive data egress charges. Granular access control of networking technologies provides connectivity solutions across both physical and virtual networks.

Oracle's Networking Top Capabilities

IPv6 Support

Connect to resources in Oracle Cloud Infrastructure (OCI) from IPv6 client endpoints.

Network Visualizer

See a concise overview of virtual networking objects and relationships.

Dynamic routing gateway

Expanded dynamic routing gateway (DRG) services provide transit hub functionality.

Encrypted traffic at 100 Gb/sec

FastConnect is faster and more secure with the ability to encrypt traffic across all regions.

Flexible load balancers

Automated traffic distribution from public or private endpoints to multiple servers.

Virtual cloud networks

Oracle virtual cloud networks provides on-premises-level control in the cloud. Assign public or private IP addresses and connect on IPv4 or IPv6. Troubleshoot connections with network visualization tools

- Fully configurable IPv4/IPv6 addresses

- Bring your own IP address (BYOIP)

- Multiuser routing tables and policies

- Segregation of user-defined subnets

Service Gateway

Oracle Cloud Service Gateway provides a customer's on-premises network with private access to OCI services. Get secure, private connectivity to compute instances, cloud storage, containers, and databases.

- Private access to Oracle SaaS and PaaS services

- Network traffic avoids public internet

- End-to-end network security

- Connect with VPN, VCN, or FastConnect

- Easy to configure

- Works with more than 50 OCI services

Flexible Load Balancing

OCI Flexible Load Balancer provides automated traffic distribution from one entry point to multiple servers reachable from your virtual cloud network.

- Layer 4 (TCP) and layer 7 (HTTP) proxy load balancer

- Guaranteed and flexible bandwidth (bursting)

- SSL offload/termination

- Cookie-based session persistence

- Supports TLS 1.2

- IPv6 support

Flexible Network Load Balancer

[OCI Flexible Network Load Balancer](#) provides automated traffic distribution from one entry point to multiple backend servers in your VCN.

- IPv6

- Layer 3 and Layer 4 (TCP/UDP/ICMP) pass-through load balancer

- Low latency

- Optimized for long-lived connections

- Source and destination IP preservation

- Free

FastConnect

[Oracle FastConnect](#) provides high availability and global traffic shaping for your applications no matter where they run, ensuring optimal website and web application performance.

- Public or private peering

- Predictable connectivity via deterministic paths

- More than 50 FastConnect partners

- Colocation cross-connects available

- No charge on private peering inbound or outbound data

Public DNS

[Public DNS](#) provides high availability and global traffic shaping for your applications no matter where they run, ensuring optimal website and web application performance.

- Active failover Ratio load balancing

- Geolocation steering

- ASN and IP prefix steering

- Secondary DNS redundancy

Private DNS

[Private DNS](#) enables the creation of private domain name system (DNS) zones in virtual cloud networks and interconnect DNS between on-premises and cloud networks.

- DNS resolution between VCNS to send requests between VCNs

- Connectivity between a VCN and on-premises name servers and send traffic in either direction

- Shared private DNS zones within a region

- Split horizon enables private zones with the same names as public names on the internet

- Custom DNS zones within a VCN resolves requests from between private views

Web Application Firewall

strengthens defenses and protects internet-facing application servers and internal applications

Network Firewall

is an integrated, cloud native managed firewall service built using next-generation firewall technology from Palo Alto Networks. It helps customers begin to defend against emerging threats and immediately take advantage of the integrated firewall without configuring and managing additional security infrastructure.

Oracle Cloud Infrastructure Network Command Center Services

Help you troubleshooting network issues