

A person is visible from the chest up, wearing a yellow and black horizontally striped shirt. The background is a plain, light color.

ORACLE



Base de Datos Convergente: ATP Multicloud Workshop



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Federico Márquez

28 y 29 de Julio de 2020 Zoom sessions

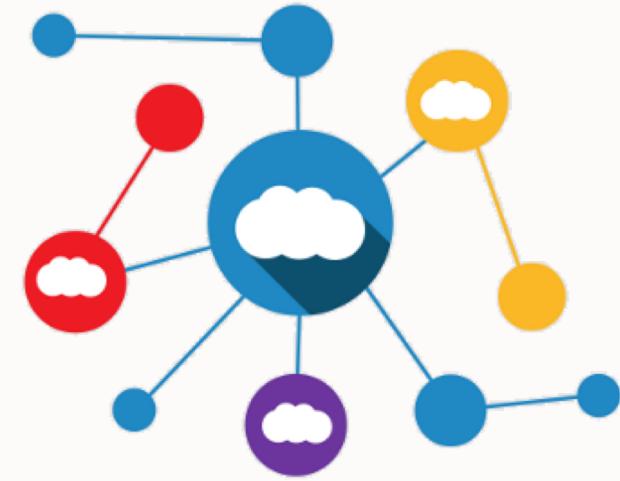
Safe harbor statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions.

The development, release, timing, and pricing of any features or functionality described for Oracle's products may change and remains at the sole discretion of Oracle Corporation.

Agenda

—
OVERVIEW



Agenda

OVERVIEW



The new IT is Multi-Cloud



The new DB is Autonomous



Oracle and 3rd party public clouds

How to consume Oracle technology in/with other public clouds

AVAIL.: availability of Oracle database technologies by cloud vendor
MODE: type of cloud service (IaaS, PaaS) where Oracle database runs
ENTER: possibility of using Oracle database enterprise capabilities

Multi-Cloud

	AVAIL.	MODE	ENTER.
Azure	✓ ⁽¹⁾	PaaS	✓ ⁽²⁾
AWS	✓	PaaS	✓ ⁽²⁾
Google	✓	PaaS	✓ ⁽²⁾

IaaS/PaaS

	AVAIL.	MODE	ENTER.
Azure	✓	IaaS	✓ ⁽³⁾
AWS	✓	IaaS	✓ ⁽³⁾
		PaaS	X
Google	X	X	X

Bare Metal

	AVAIL.	MODE	ENTER.
Azure	X	X	X
AWS	✓	IaaS	✓ ⁽⁵⁾
Google	! ⁽⁴⁾	IaaS	! ⁽⁵⁾

Cloud Adjacent

	AVAIL.	MODE	ENTER.
Azure	✓ ⁽¹⁾	PaaS	✓ ⁽⁶⁾
AWS	✓	PaaS	✓ ⁽⁶⁾
Google	✓	PaaS	✓ ⁽⁶⁾

⁽¹⁾ Azure-OCI partnership that includes connectivity, SSO and collaborative support model

⁽²⁾ Accessing through to OCI and Autonomous Database via Fast Connect

⁽³⁾ BYOL for IaaS model according to the policy for authorized cloud vendors ([doc](#))

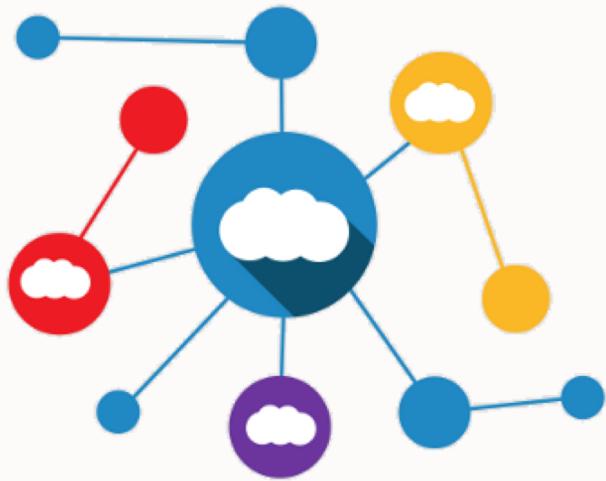
⁽⁴⁾ By co-location hoster or MSP

⁽⁵⁾ BYOL according to on-premises licensing policy ([doc](#))

⁽⁶⁾ Cloud at Customer with Autonomous Database coming soon

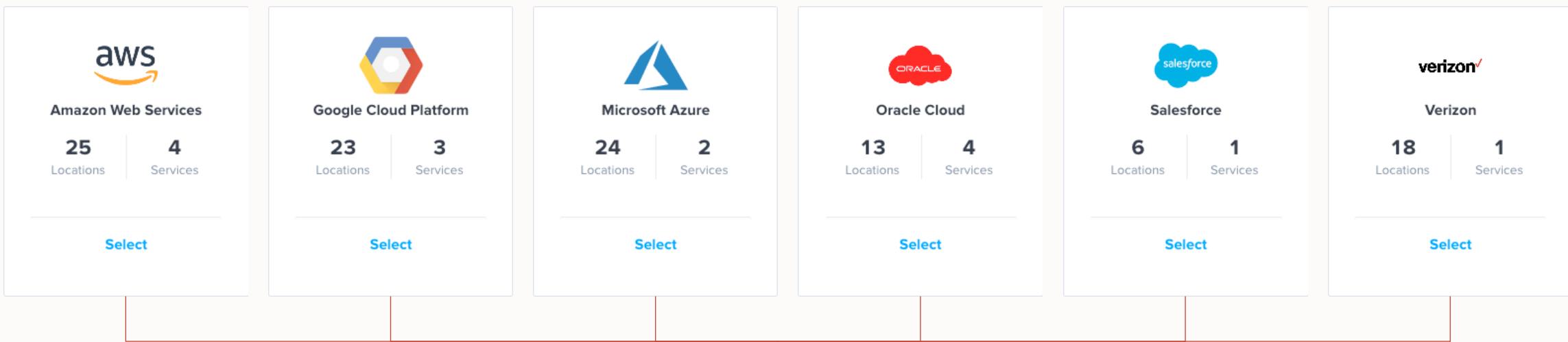


Agenda





Multicloud momentum with Equinix



ECX Fabric

Globally-distributed, on-demand, virtual interconnection service that enables our customers to connect effortlessly to...

[Read more >](#)

30+ Internet Exchange Points Around the Globe





ECX Fabric Portal (CXP) Pricing

- The ECX Fabric Portal shows the total price and the cost of the components (local and remote connections).
- The pricing in the portal is reflected with an existing Price Agreement (PA).
- Price will be displayed in the currency based on the A-end metro.

The screenshot shows the Equinix Cloud Exchange Fabric (CXP) Pricing Portal. At the top, there's a navigation bar with the Equinix logo, 'CLOUD EXCHANGE FABRIC™', and links for 'My Company', 'Inventory', 'Support', 'Create Connection' (which is highlighted in blue), and a user dropdown 'uatbuyer1'. Below the navigation is a section titled 'Connection Speed' with four options:

- Billing Tier: Up to 50 Mbps. Speed: 50 Mbps. Monthly Charge: Select Speed.
- Billing Tier: Up to 200 Mbps. Speed: 200 Mbps. Monthly Charge: Select Speed.
- Billing Tier: Up to 500 Mbps. Speed: Select Speed.
- Billing Tier: Up to 10 Gbps. Speed: Select Speed.

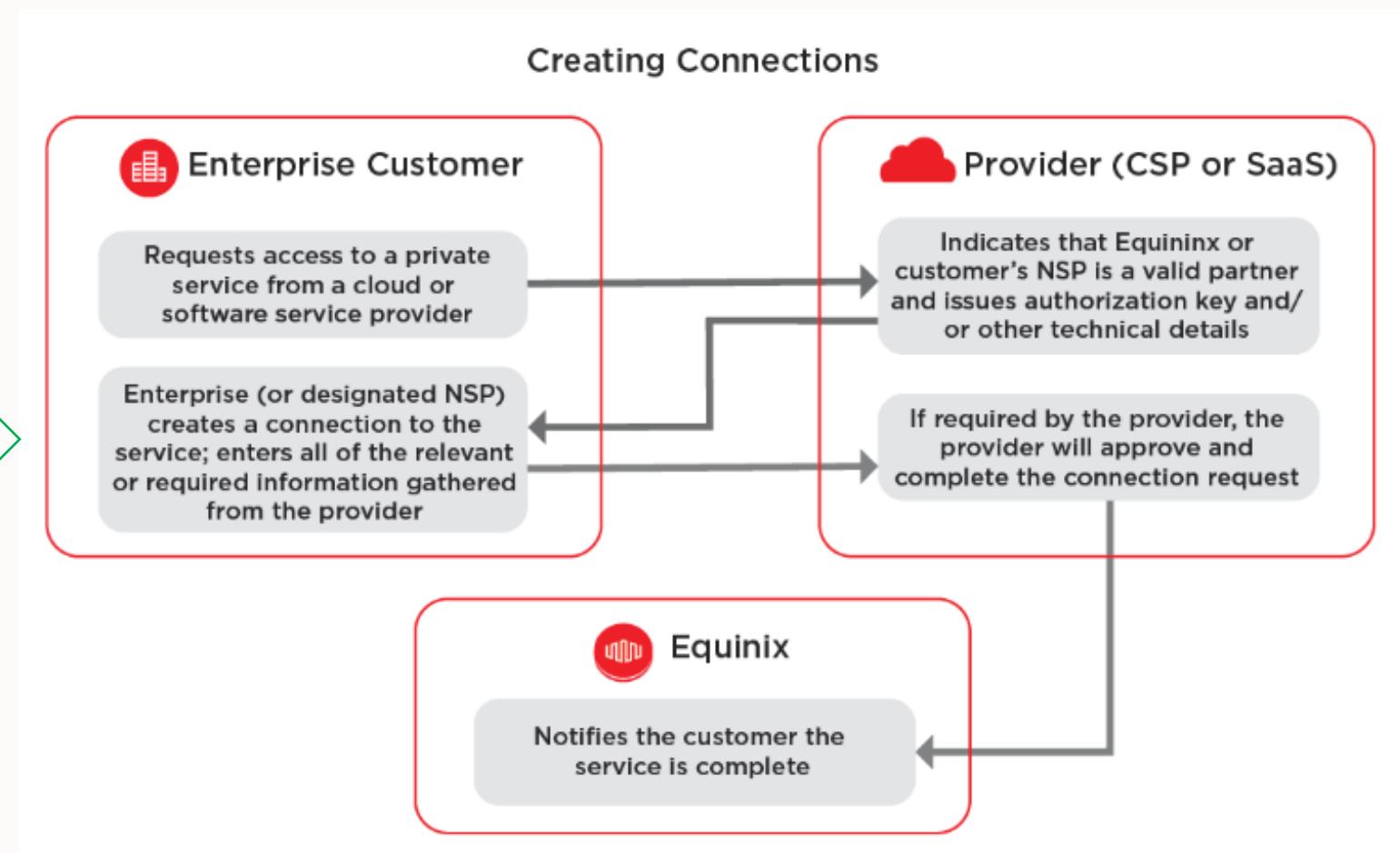
A large blue-bordered box highlights the second option (200 Mbps). Inside this box, the text 'Speed Selected' is displayed in blue, and the monthly charge is shown as '150.00 EUR'. To the right of the connection speed section is a 'Pricing Overview' panel:

Pricing Overview	
Local Connection:	200.00 USD
Remote Surcharge:	1150.00 USD
Total:	1350.00 USD
Additional taxes and/or fees may apply, depending on the Metro.	

ECX Fabric Workflow

Three basic workflows that most users follow:

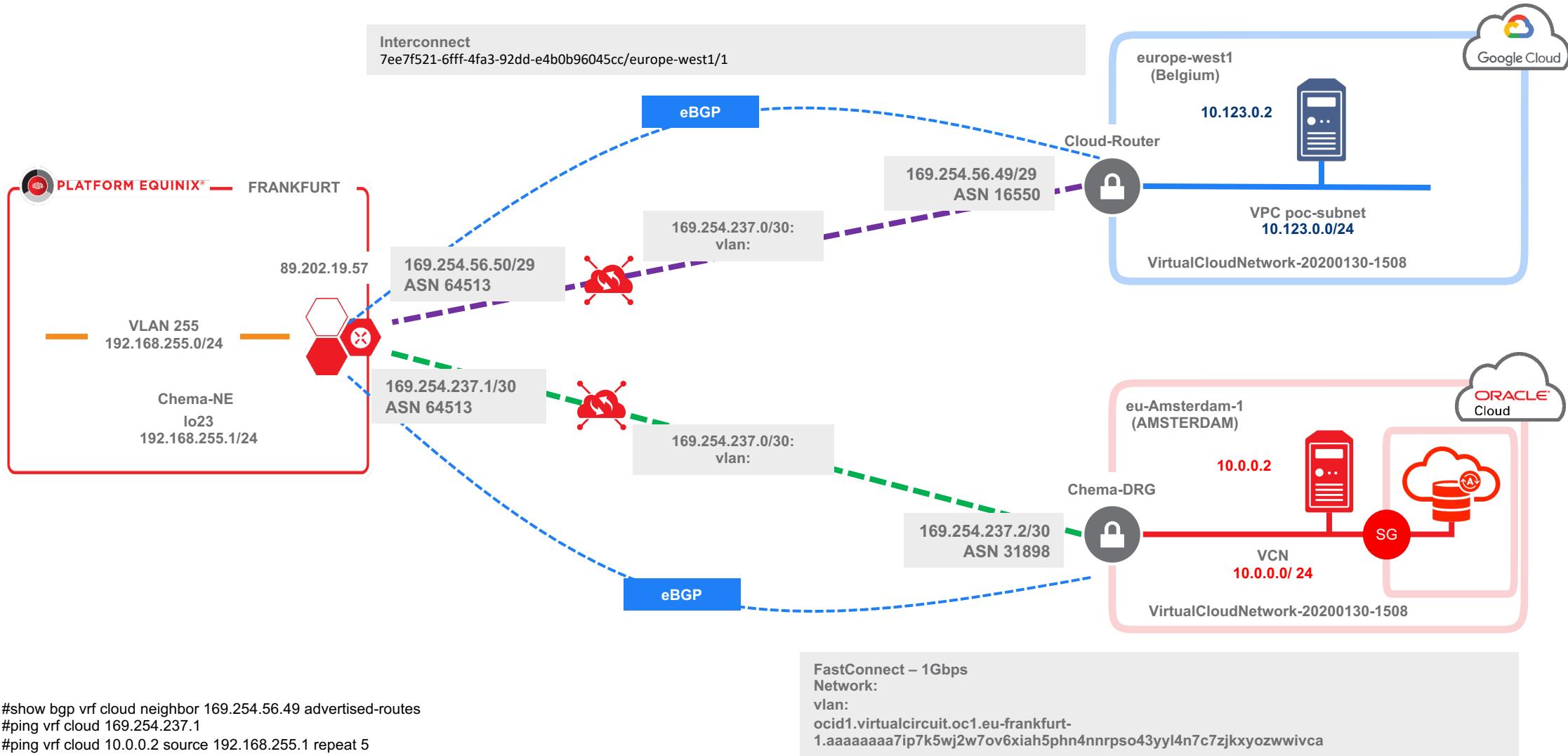
- Creating and Ordering Ports
- Creating Connections (buying a service from another)
- Creating Service Profiles (selling a service to others)



20200131 – Customer PoC Architecture



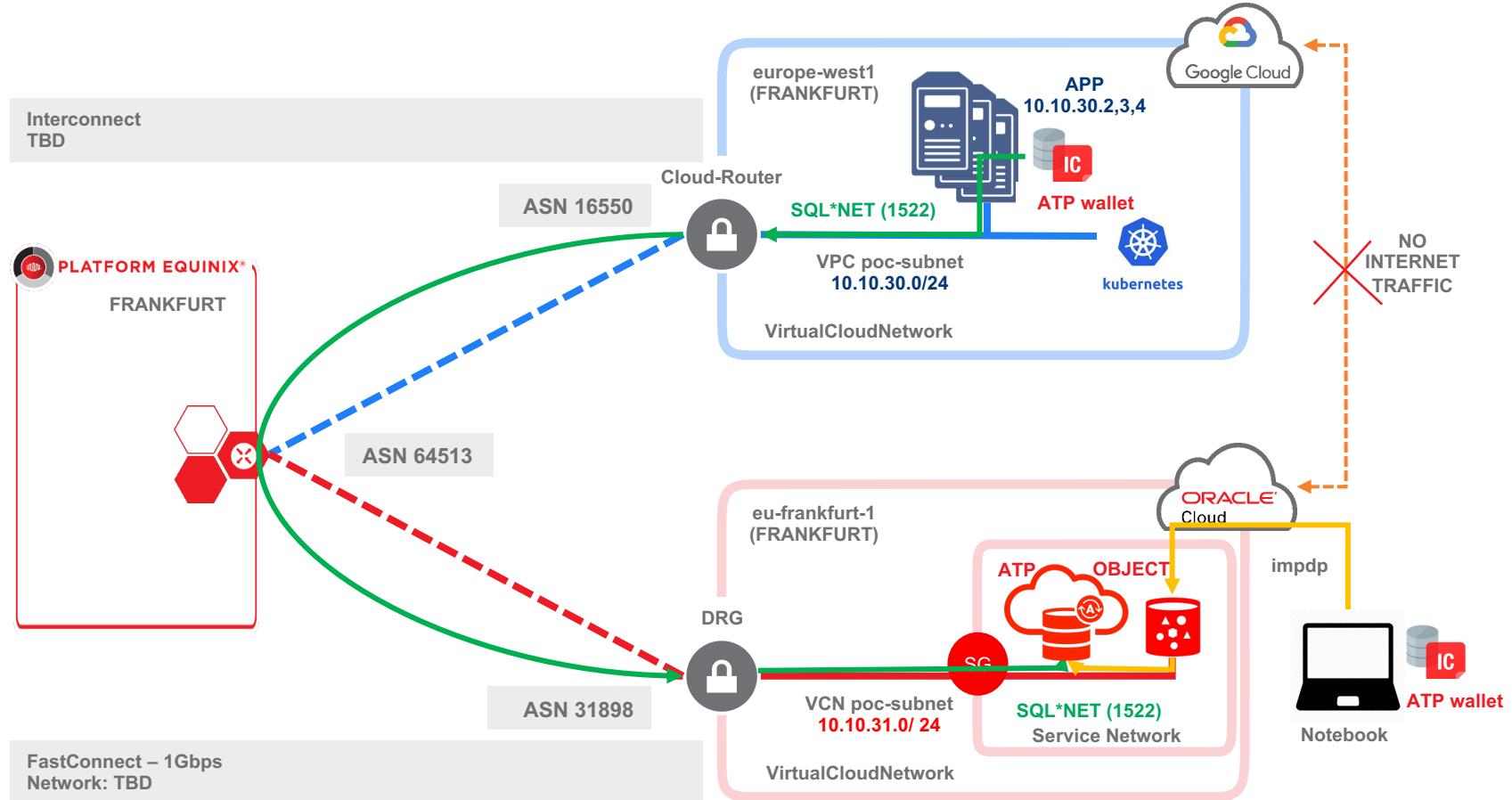
EQUINIX CLOUD EXCHANGE FABRIC



20200214 – Customer PoC Architecture

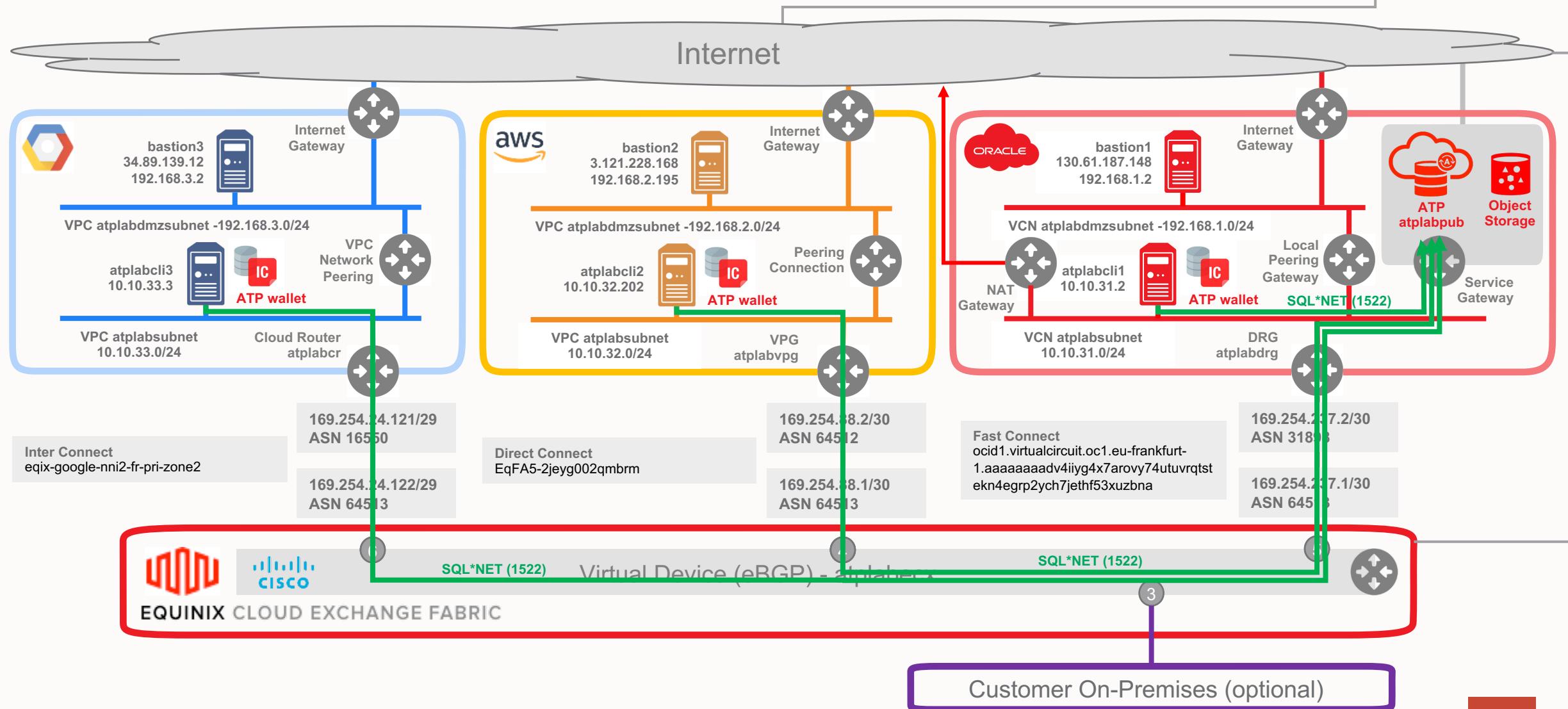


EQUINIX CLOUD EXCHANGE FABRIC



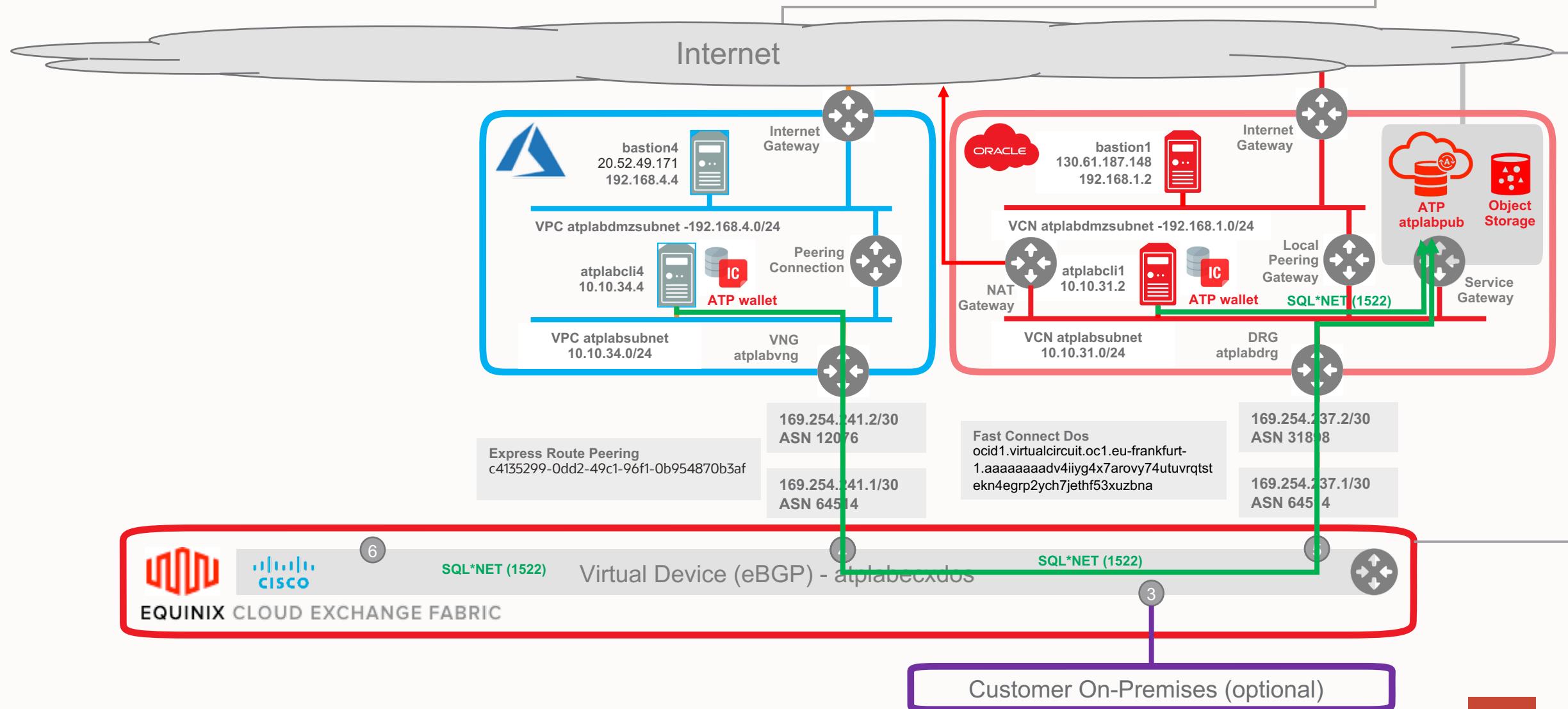
Converged Database Multicloud Workshop

ATPLAB: Overview



Converged Database Multicloud Workshop

ATPLAB: Overview



Elastic Performance

ATPLAB: how Scalability, Concurrency and Parallelism work fine in ATP

Screenshot of the Oracle Cloud Infrastructure SQL Monitoring dashboard showing the Top 100 queries by Last Active Time.

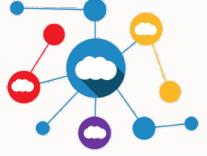
The dashboard includes a search bar, navigation links for ASH Analytics and SQL Monitoring, and a filter bar for Status, SQL ID, or User Name.

A "Kill Session" button is present above the main table.

Status	Duration	Inst ID	SQL ID	SQL Plan Hash	User Name	Parallel	Database Time	I/O Requests	SQL Text
✓	44.00s	1	4m3v878vknwu1	3313491567	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB	4	3.00m	166K	select /*GCP*/ sum(io_extended...
✓	49.00s	1	1667qhdrryc1p	3313491567	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB	4	3.31m	166K	select /*AWS*/ sum(io_extended...
✓	48.00s	1	adpkxhd25qq1t	3313491567	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB	4	3.21m	166K	select /*OCI*/ sum(io_extended...
✓	39.00s	1	fzhppq6mrf963	3313491567	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB	4	2.63m	166K	select /*Home*/ sum(io_extende...
✓	3.07m	1	1667qhdrryc1p	3002741515	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB		3.09m	165K	select /*AWS*/ sum(io_extended...
✓	3.10m	1	adpkxhd25qq1t	3002741515	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB		3.13m	165K	select /*OCI*/ sum(io_extended...
✓	3.15m	1	fzhppq6mrf963	3002741515	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB		3.17m	165K	select /*Home*/ sum(io_extende...
✓	3.18m	1	4m3v878vknwu1	3002741515	HR@Z36W1ZYAC6L8LPZ_ATPLABPUB		3.21m	165K	select /*GCP*/ sum(io_extended...

Close

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Partners Multicloud: Work in Progress



Customer Engagement
Database Summit Madrid
• Adoption Strategy



Marketing Campaign
• Retail Accounts



Partner Enablement
• A&C Initiative



Solution Architecture
• Trial Accounts
• Customer Support

Agenda

Converged Database Workshop Series



Converged Database Workshop Series

Marketing Campaign on going

1. Oracle Converged Database: Multitenant, Multimodel, In-Memory

- For DBAs, Solutions Architects and Developers, including CTOs
- One day in Torre Picasso or
- Remote Zoom sessions (3 consecutive days, 2 hours each)



2. Oracle Converged Database: Multicloud ECX with Autonomous DB

- For Data Engineers and Cloud Solutions Architects
- One morning in Torre Picasso or
- Remote Zoom sessions (2 consecutive days, 3 hours each)



3. Oracle Converged Database: Spatial, Graph & ML with Python and R

- For Data Engineers, Data Scientists, Business Analysts and Solutions Architects
- One day in Torre Picasso or
- Remote Zoom sessions (3 consecutive days, 2 hours each)



Agenda

Multicloud ECX with Autonomous DB



Oracle Converged Database: Multicloud ECX with Autonomous DB Hands On Labs

Day 1:

Intro – 45'

HOL0 – ATP 75'

HOL1 - ECX and OCI Fast Connect (ASN 64513) 30'

HOL1B - ECX Dos and OCI Fast Connect Dos (ASN 64514) 30'

Day 2:

HOL2 - AWS Direct Connect (ASN 64512) 30'

HOL2B - Azure Direct Connect (ASN 12076) 30'

HOL3 - GCP Inter Connect (ASN 16550) 30'

HOL4 - IC cloning and SQLplus queries to ATP (now with Azure atplabcli4) 90'

Day 3:

HOL5 - ATP tooling (extra Azure bastion4) 120'

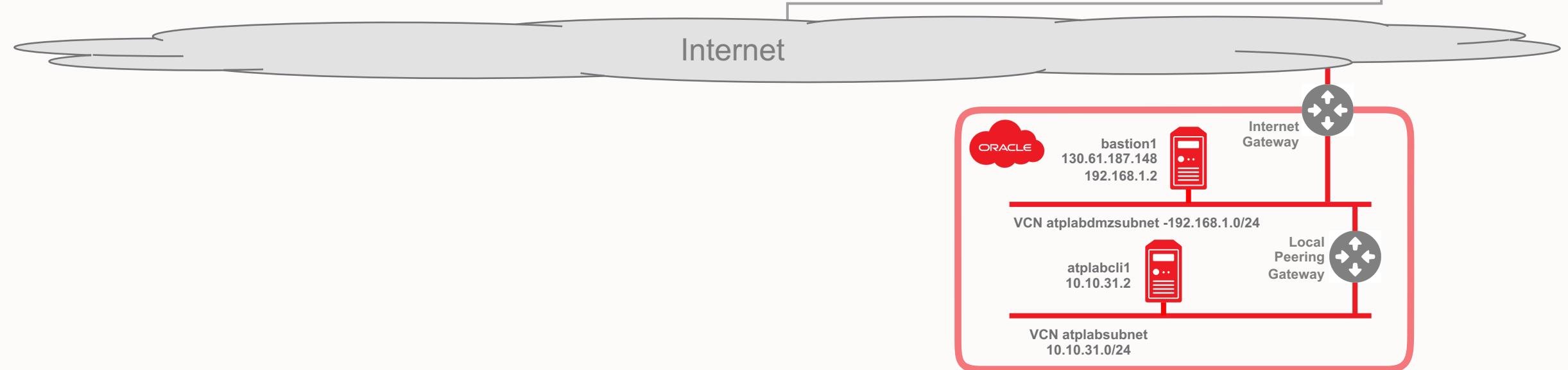
Inspirational: 30'

Close: 15'



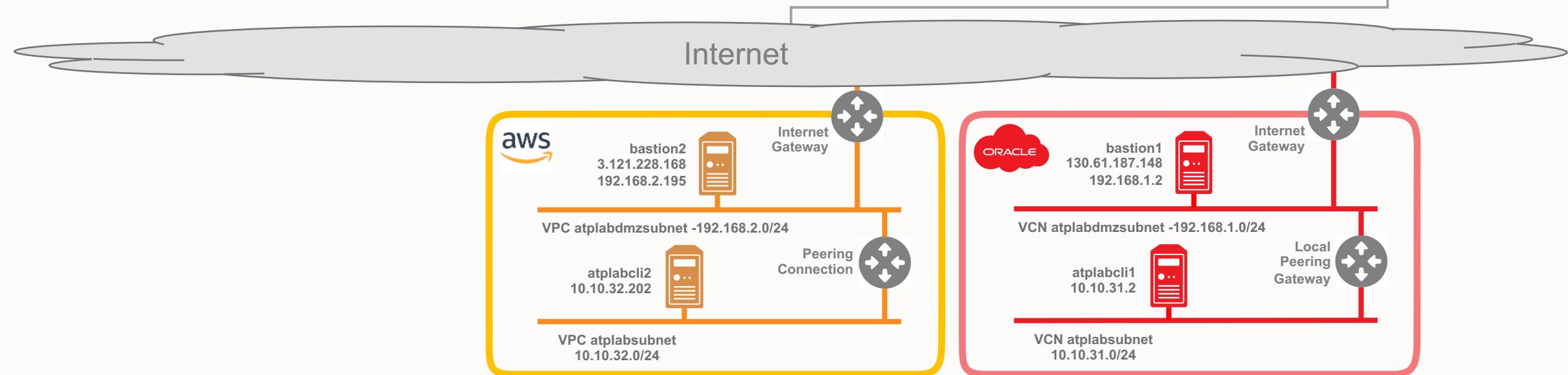
Converged Database Multicloud Workshop

ATPLAB: OCI pre-work done!



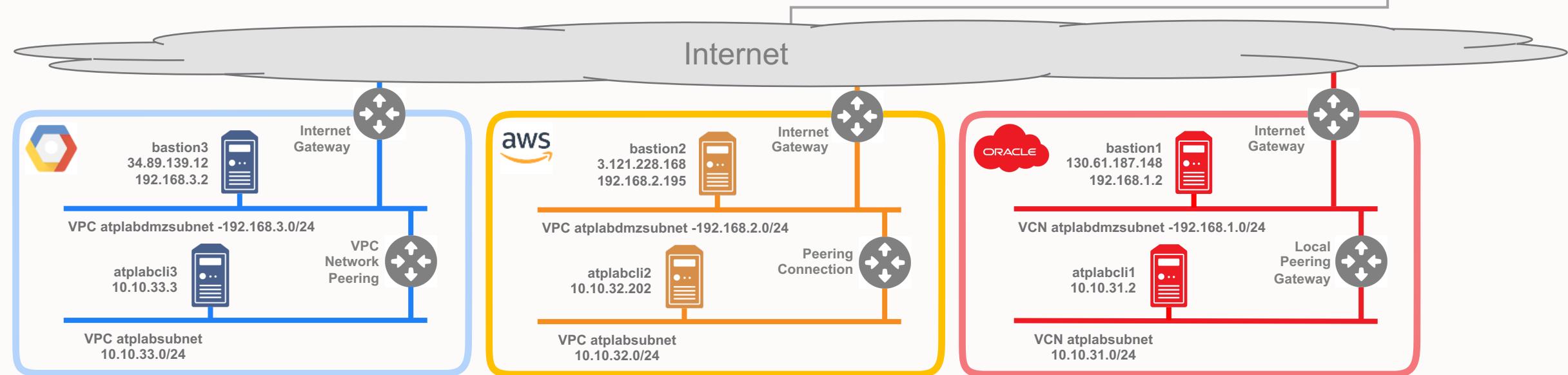
Converged Database Multicloud Workshop

ATPLAB: AWS pre-work done!



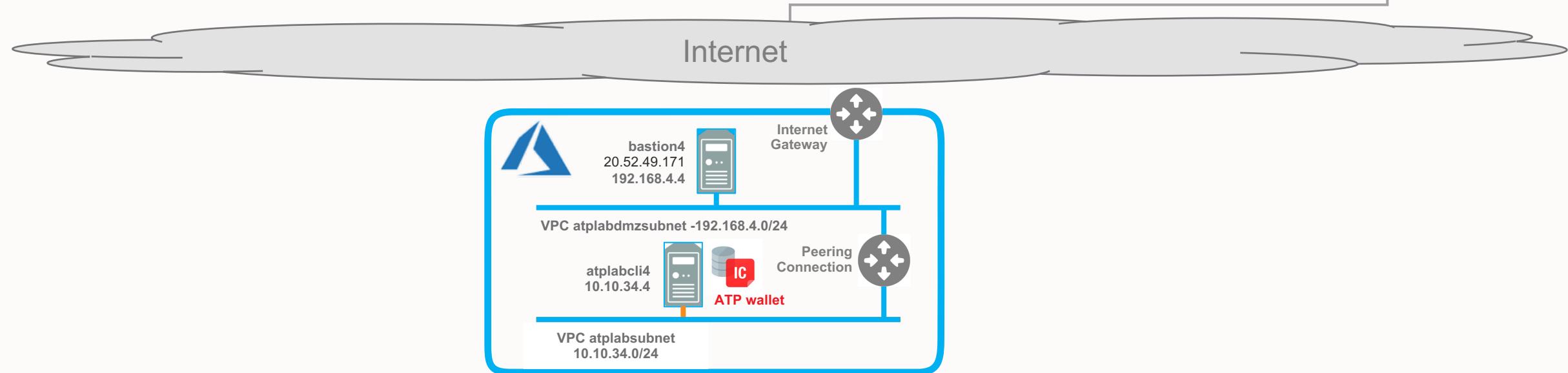
Converged Database Multicloud Workshop

ATPLAB: GCP pre-work done!



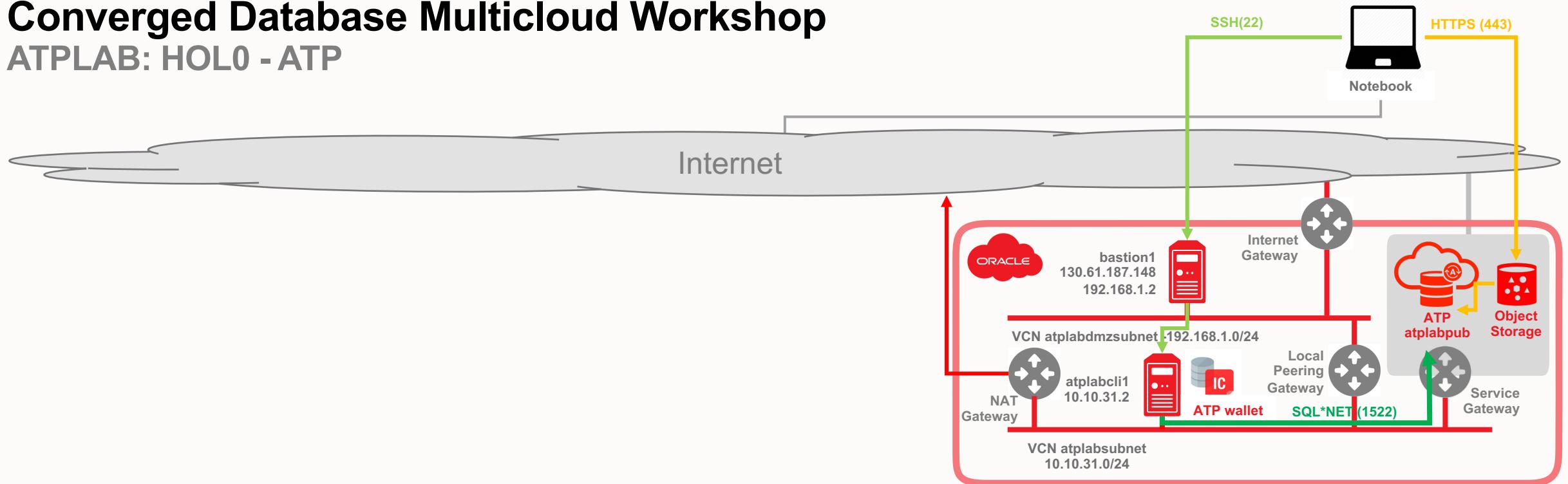
Converged Database Multicloud Workshop

ATPLAB: GCP pre-work done!



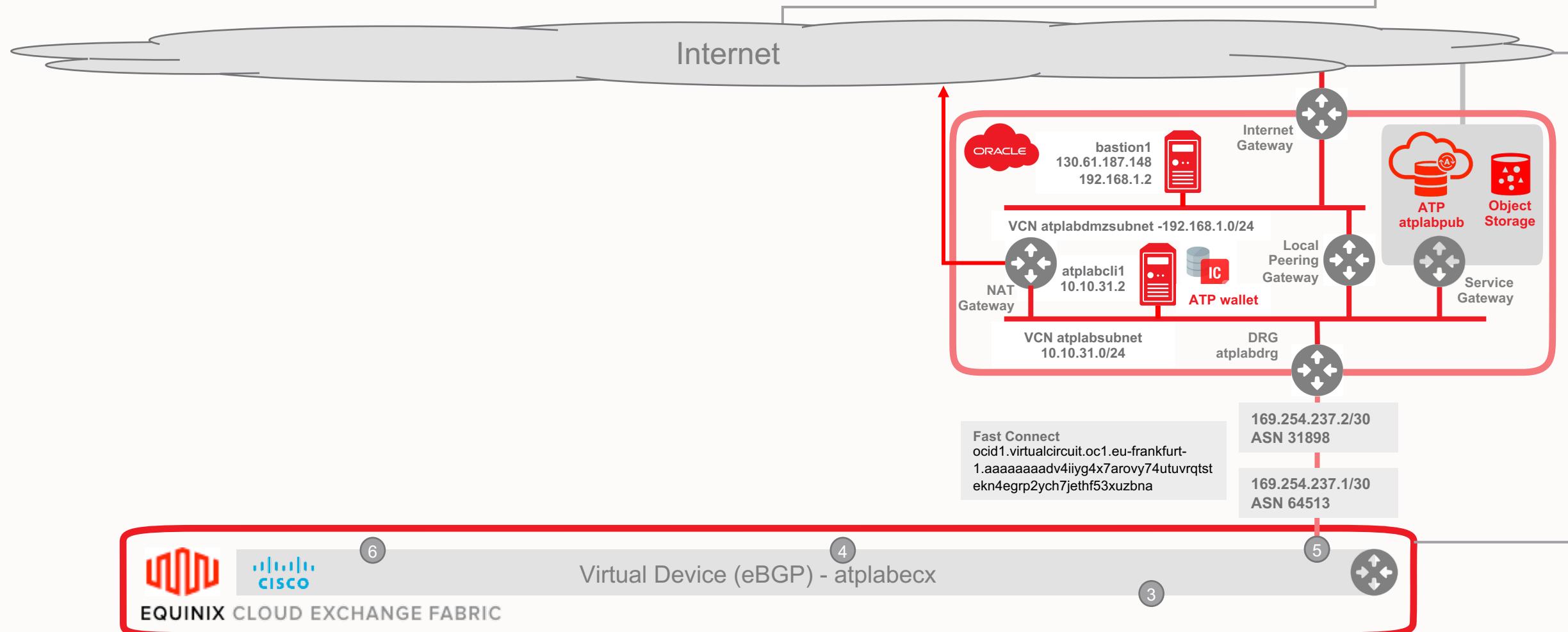
Converged Database Multicloud Workshop

ATPLAB: HOL0 - ATP



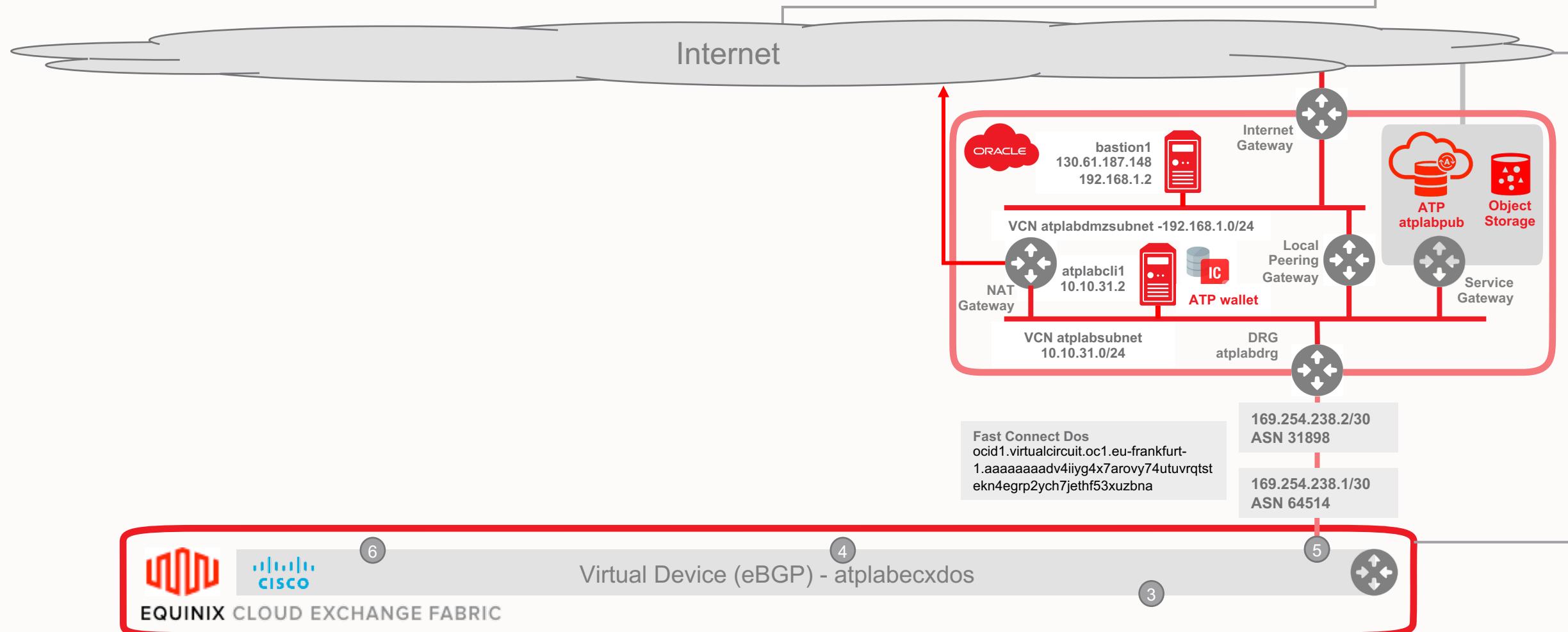
Converged Database Multicloud Workshop

ATPLAB: HOL1 - ECX and OCI Fast Connect



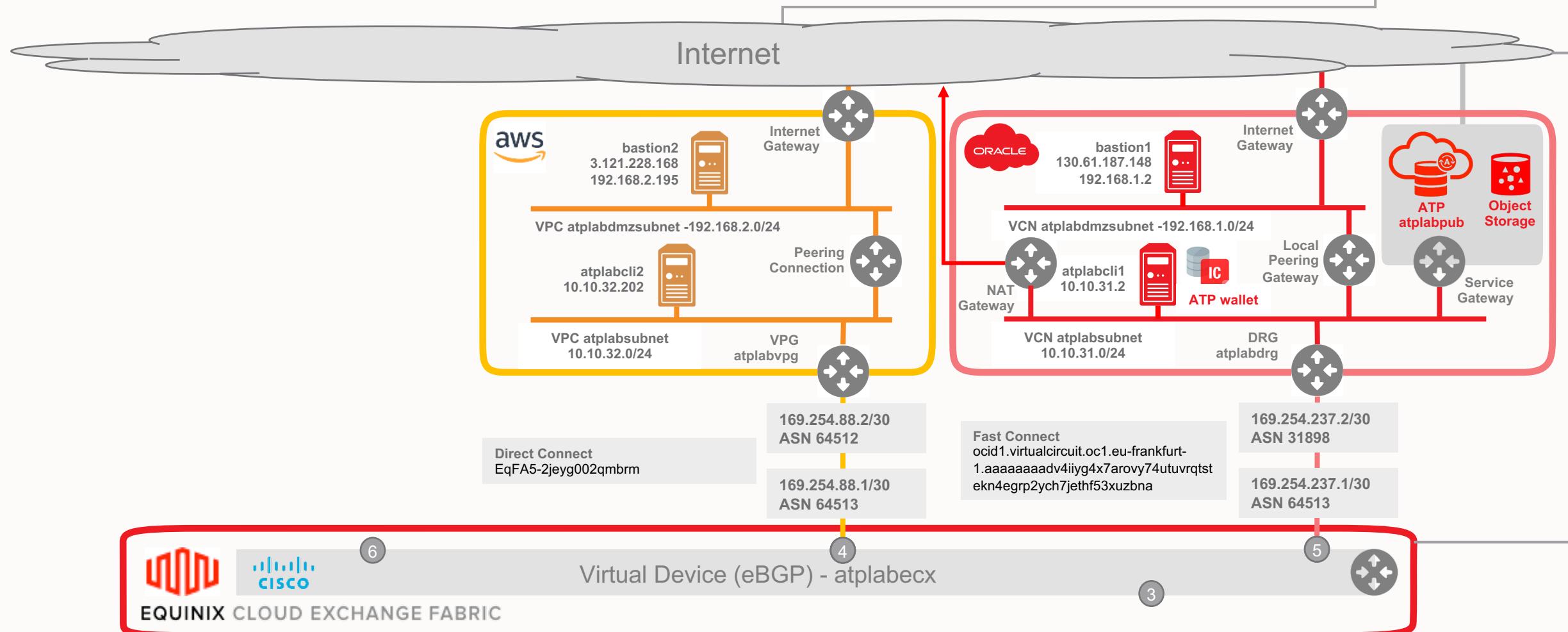
Converged Database Multicloud Workshop

ATPLAB: HOL1B - ECX and OCI Fast Connect Dos



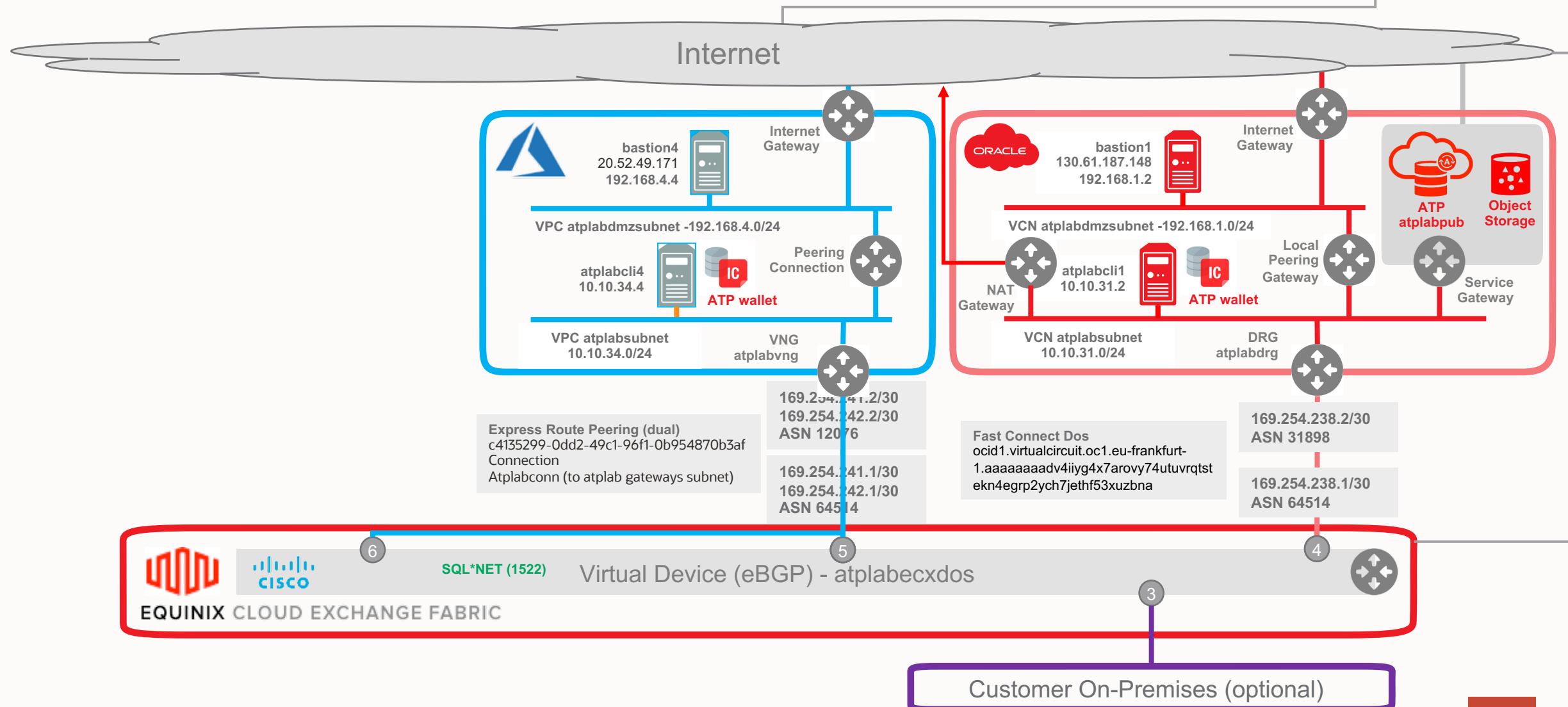
Converged Database Multicloud Workshop

ATPLAB: HOL2 - AWS Direct Connect



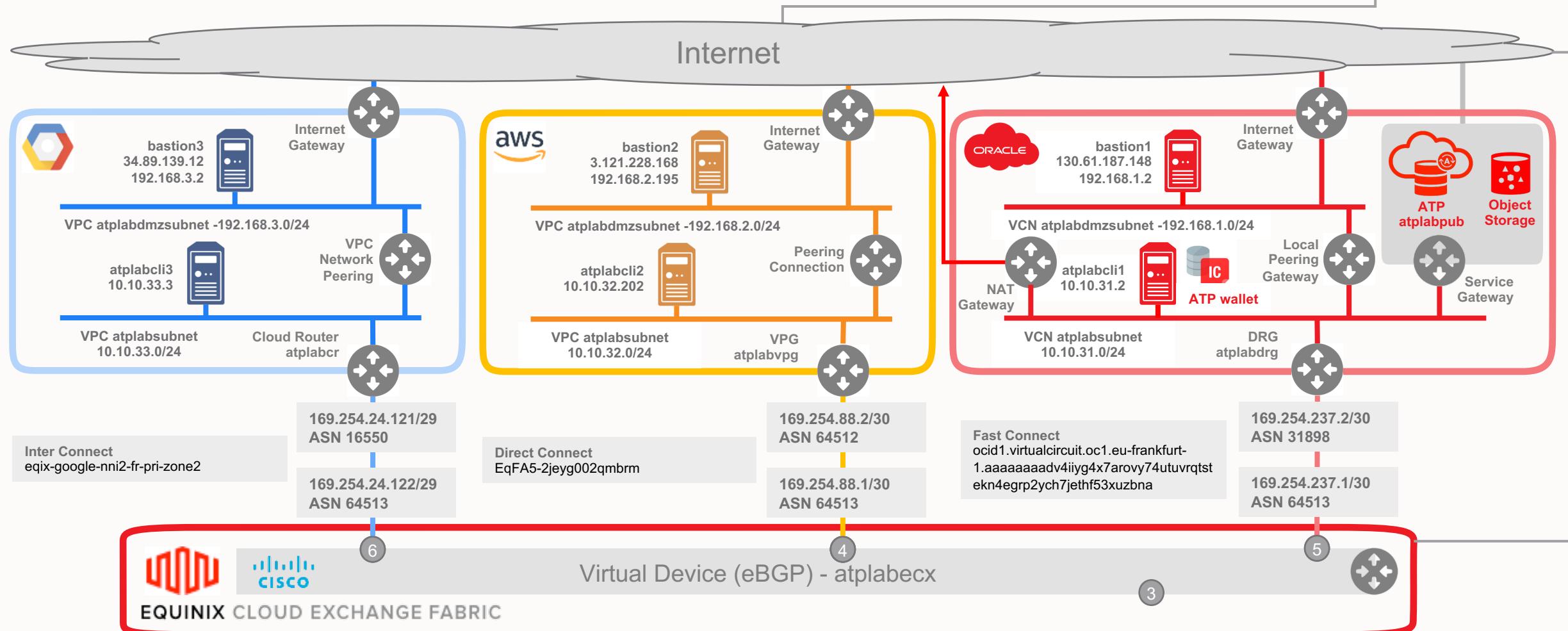
Converged Database Multicloud Workshop

ATPLAB: HOL2B – Azure Express Route



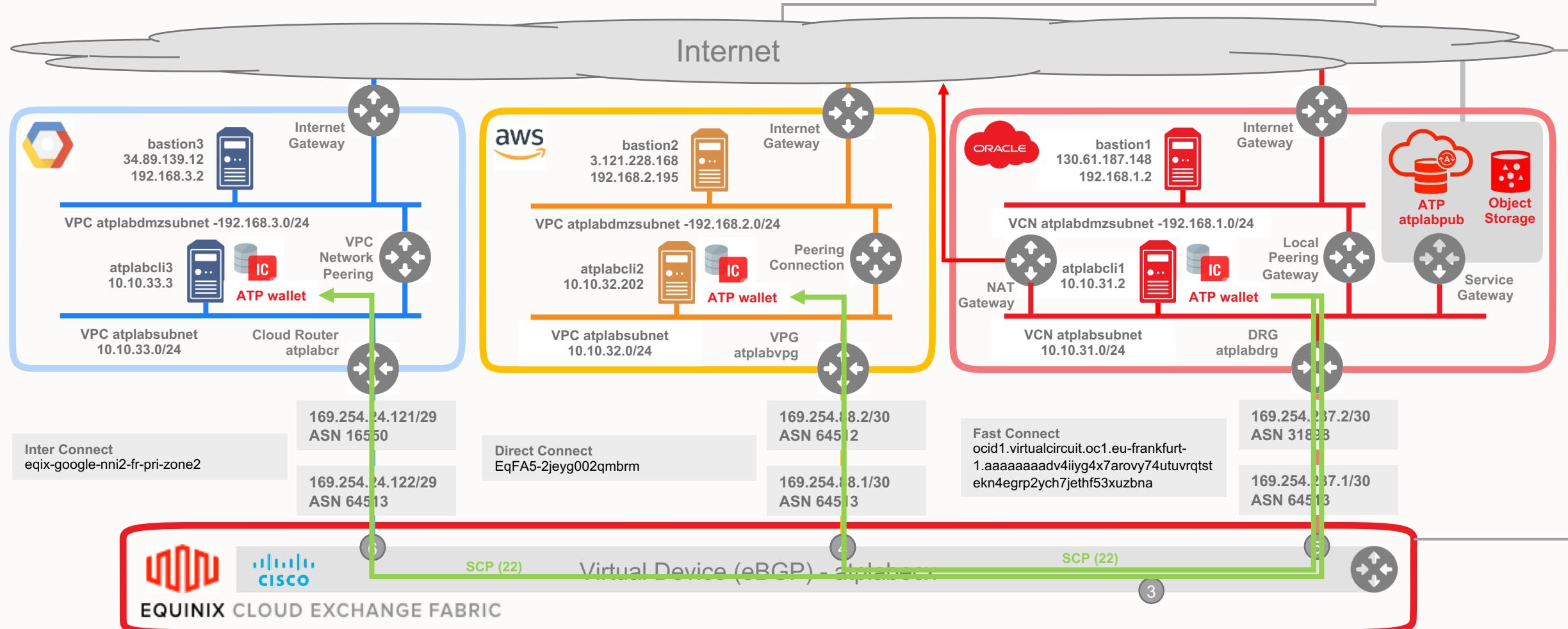
Converged Database Multicloud Workshop

ATPLAB: HOL3 - GCP Inter Connect



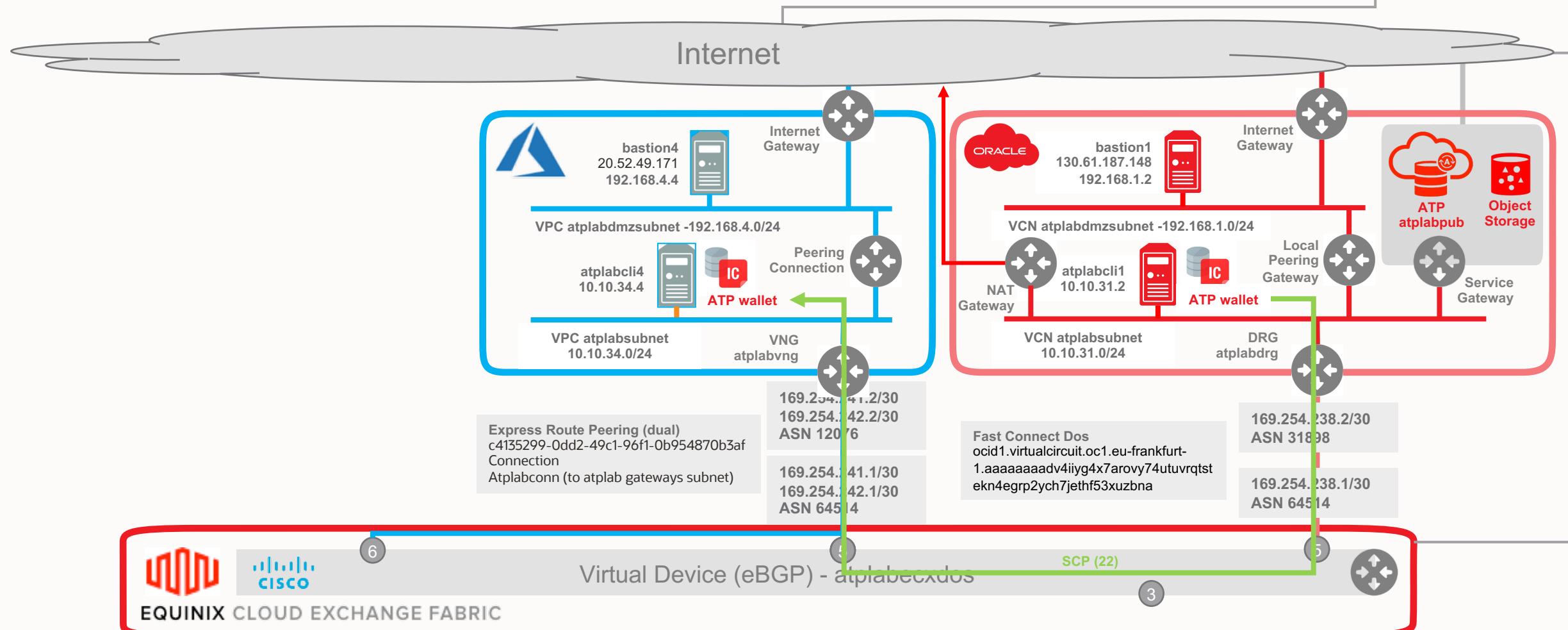
Converged Database Multicloud Workshop

ATPLAB: HOL4 - IC cloning



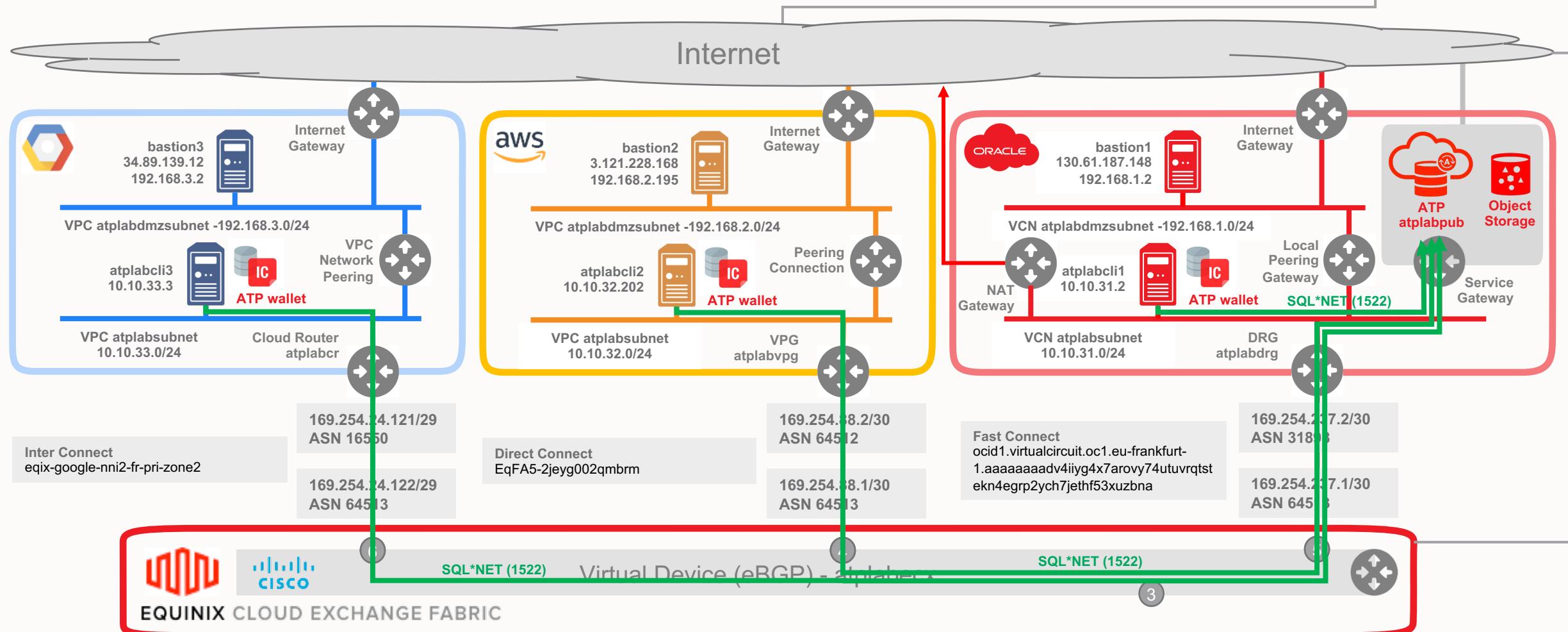
Converged Database Multicloud Workshop

ATPLAB: HOL4 - IC cloning (cont)



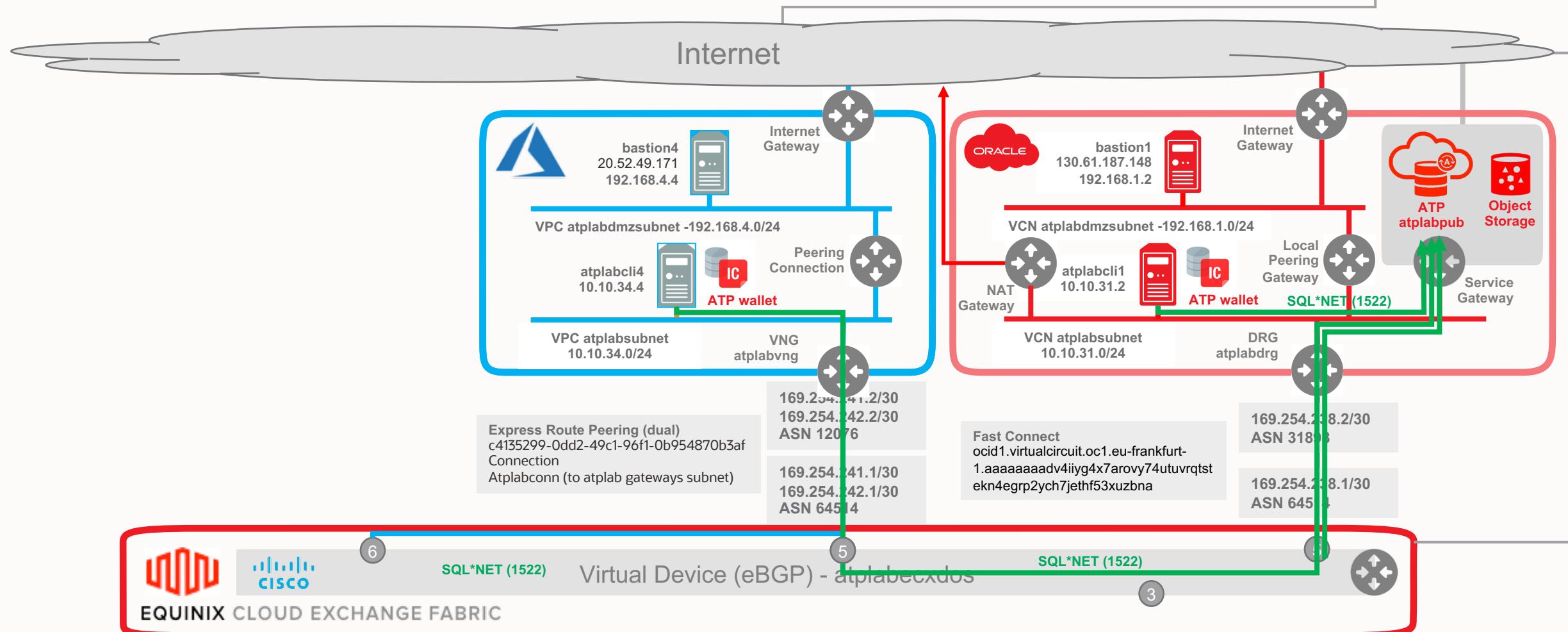
Converged Database Multicloud Workshop

ATPLAB: HOL4 - SQLplus queries to ATP



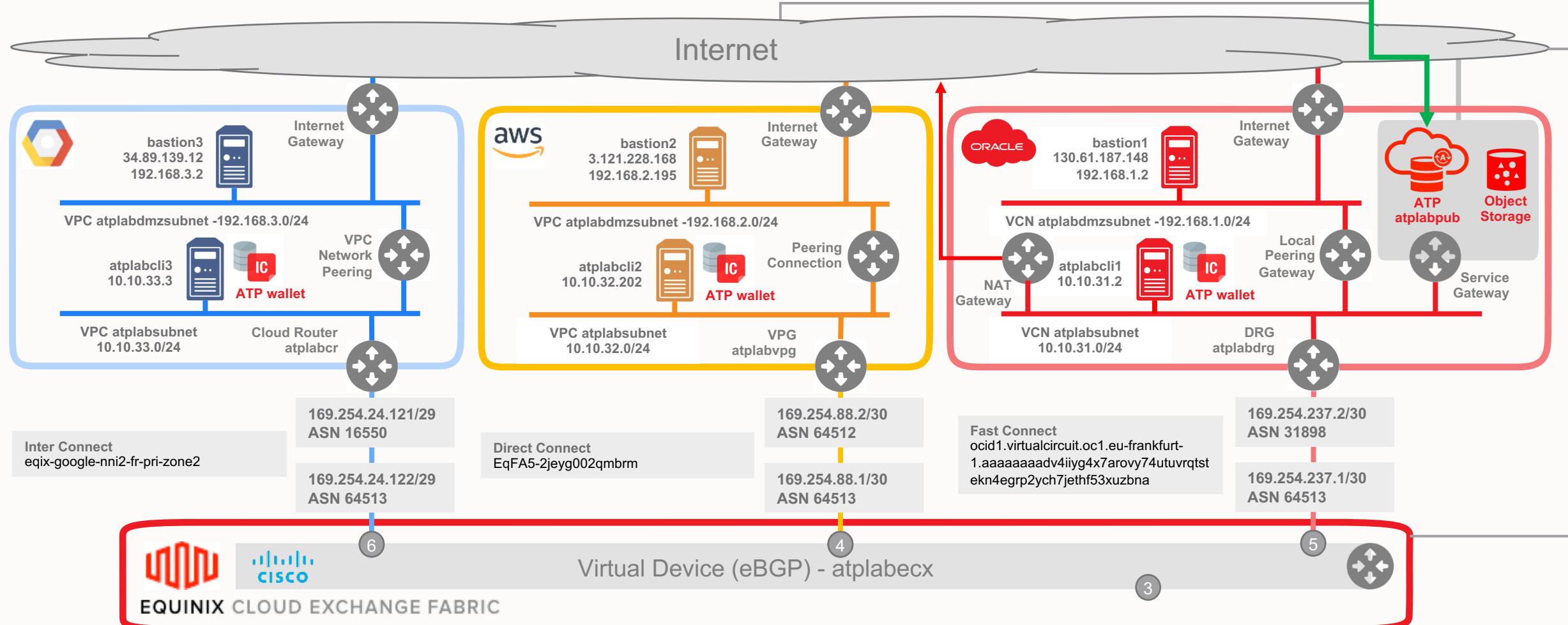
Converged Database Multicloud Workshop

ATPLAB: HOL4 - SQLplus queries to ATP (cont)



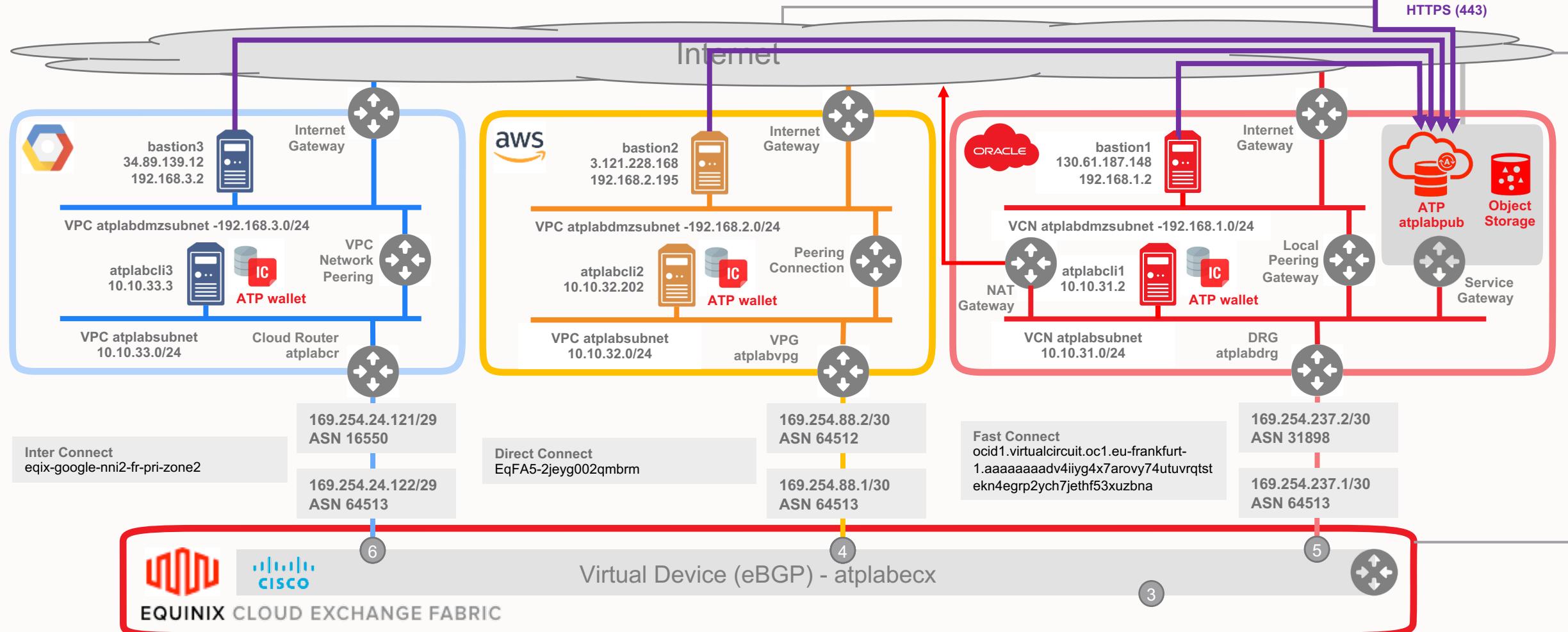
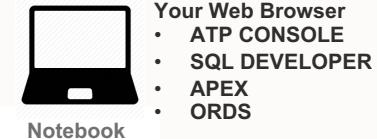
Converged Database Multicloud Workshop

ATPLAB: HOL4 - SQLplus queries to ATP (add-on not included this time)



Converged Database Multicloud Workshop

ATPLAB: HOL5 - ATP tooling



Hand-on Labs Breakout Rooms

Francisco

David

Room 1



Guillermo

Federico

Room 2



Iván

José

Oracle Cloud Free Tier

Build, test and deploy apps
on Oracle Cloud - for free!

Start Now

Always Free

Services you can use for unlimited time

+

30 Day Free Trial

Up to 400€

Follow this link →

<https://bit.ly/2wG4gPK>

Equinix Edge Services: Free Trial

<https://edgeservices.equinix.com>

The screenshot shows the Equinix Edge Services website. At the top, there's a navigation bar with the Equinix logo, a search bar, and links for 'Log in', 'Products', 'Resources', 'Contact', and 'Documentation'. The main content area features a large banner with the text 'Essential tools to deploy, control and scale your digital infrastructure' and a 'Talk To Us' button. Below this, there's a section with a red hexagonal icon and the text 'Network Select, config in real-time at'. Further down, there's a summary of services: 'REACH EVERYWHERE', 'INTERCONNECT EVERYONE', 'INTEGRATE EVERYTHING', and 'THE GLOBAL INTERFOR DIGITAL BUSINESS'. It also lists statistics: 200+ Data Centers, 52+ Metros, 2980+ Enterprises, 2900+ Cloud & IT service providers, and 1800+ Network service providers. To the right, there's a 'NETWORK EDGE' section with a red hexagonal icon, a 'Start Free Trial' button, and text encouraging users to 'Modernize Your Network, Virtually' and 'Select, Configure, and Connect Virtual Network Services in Minutes'. A callout at the bottom right says 'Create a digital ready distributed infrastructure by deploying and interconnecting virtual network services across Platform Equinix at the digital edge.'

EDGE SERVICES

Products ▾ Resources Contact Documentation

Log in

Essential tools to deploy, control and scale your digital infrastructure

Talk To Us

Network

Select, config in real-time at

REACH EVERYWHERE

INTERCONNECT EVERYONE

INTEGRATE EVERYTHING

THE GLOBAL INTERFOR DIGITAL BUSINESS

Platform Equinix is the global interconnection platform advanced portfolio of digital services and ecosystem wherever opportunity leads.

200+ Data Centers 52+ Metros 2980+ Enterprises 2900+ Cloud & IT service providers 1800+ Network service providers

NETWORK EDGE

Start Free Trial

Modernize Your Network, Virtually

Select, Configure, and Connect Virtual Network Services in Minutes

Create a digital ready distributed infrastructure by deploying and interconnecting virtual network services across Platform Equinix at the digital edge.

Inspiration & Innovation



Data Gravity

Data Volume is Exponentially Growing

Moving Data is Slow and Expensive

Leave Data In Place

The illustration features a large yellow rock on the left, a red scale-like gauge in the center, and a red weight labeled "Data". To the right of the gauge is the equation $e=mc^2$ in orange and green. A red arrow points from the "Data" weight to the gauge, indicating that data has mass.

$$e=mc^2$$

Avoid Storing Data in Different **Locations** or **Technologies**

It's Easier to **Move Apps to Data** rather than Moving Data to Apps

Process Data In Place



Single-Purpose **vs.** Multi-Purpose

Instead of

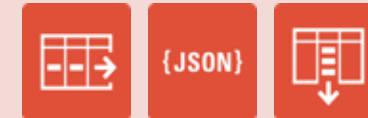
Phones,
Messaging,
Camera, Calendar,
Music, Navigator,
Notepad,
Calculator...



Smart Phone

Instead of

Relational, No-SQL,
JSON, XML,
Transactional,
Analytics, In-Memory,
IoT, ML, Blockchain,
Spatial, Sharding...



Converged Database

Oracle Converged Database Multi-Model and Multi-Workload

Converged Database

Multi-Model

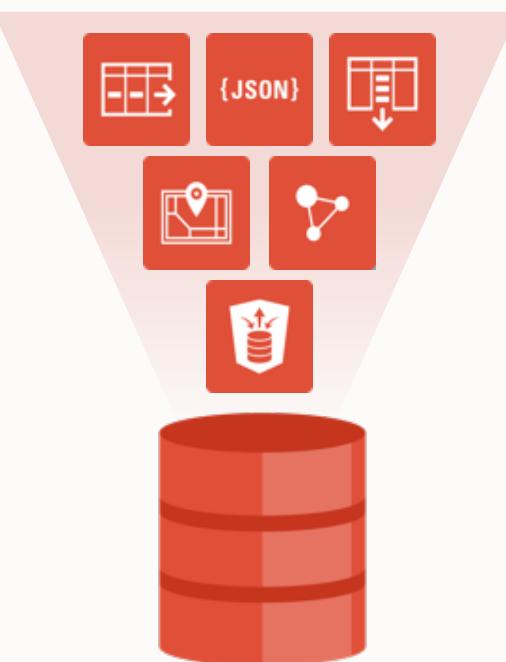
Multi-Workload

**Multiple Data Types
(models and semantics)**

Relational, Document, JSON, XML,
OLAP, Spatial, Graph, Object-
Oriented, Text, etc.

**Multiple Application Types
(workloads and technologies)**

Operational, Analytics, **Translytics**,
Transactional, IoT, ML, In-Memory,
Block-Chain, **HTAP**, etc.



Oracle runs one **Converged Multi-Purpose Database** supporting multiple data types and workloads
Amazon runs many **Specialized Single-Purpose Databases** for each data type and workload

High Transactional and Analytics Processing HTAP Leadership

Converged Database

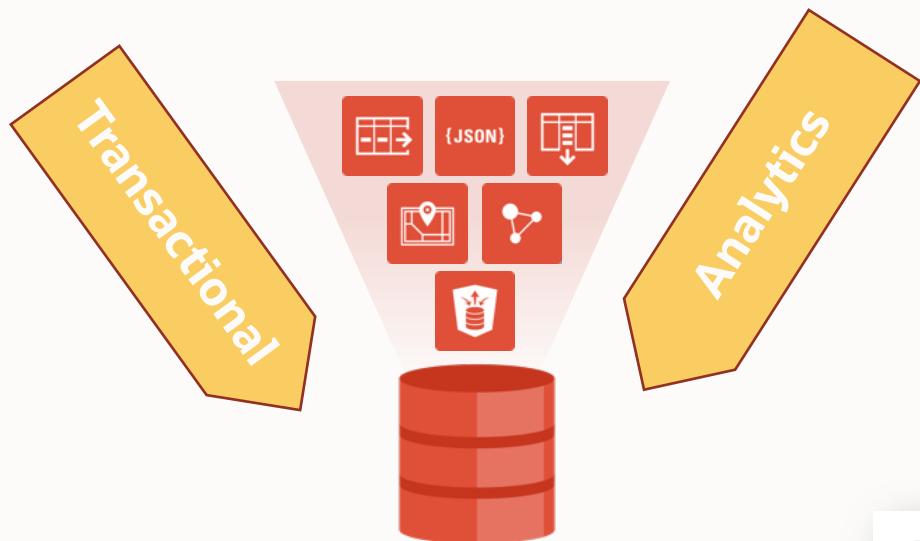
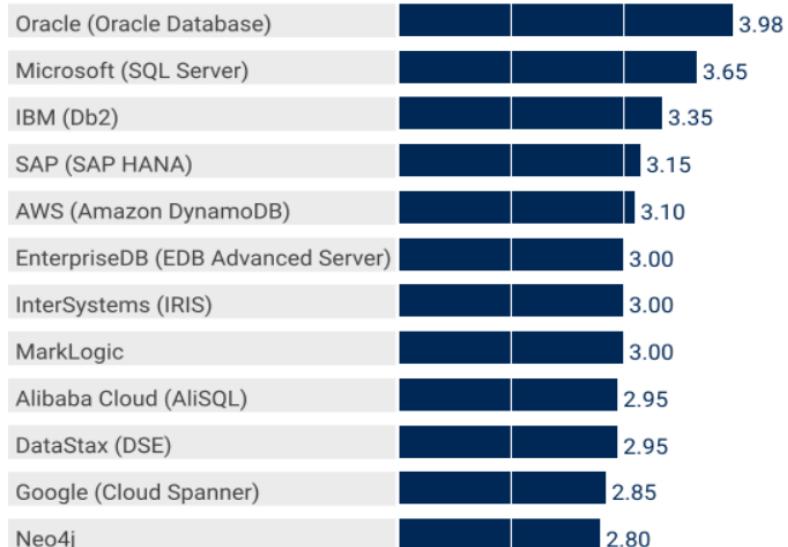


Figure 4. Vendors' Product Scores for the Augmented Transactions Use Case

Product or Service Scores for Augmented Transactions



1 2 3 4 5

© Gartner, Inc

As of 14 October 2019

- This year's use cases for operational database management system (ODBMS) include traditional transactions, distributed variable data, event processing/data in motion and augmented transactions (formerly "convergence of transactions and analytics [HTAP]").

Multi-Workload



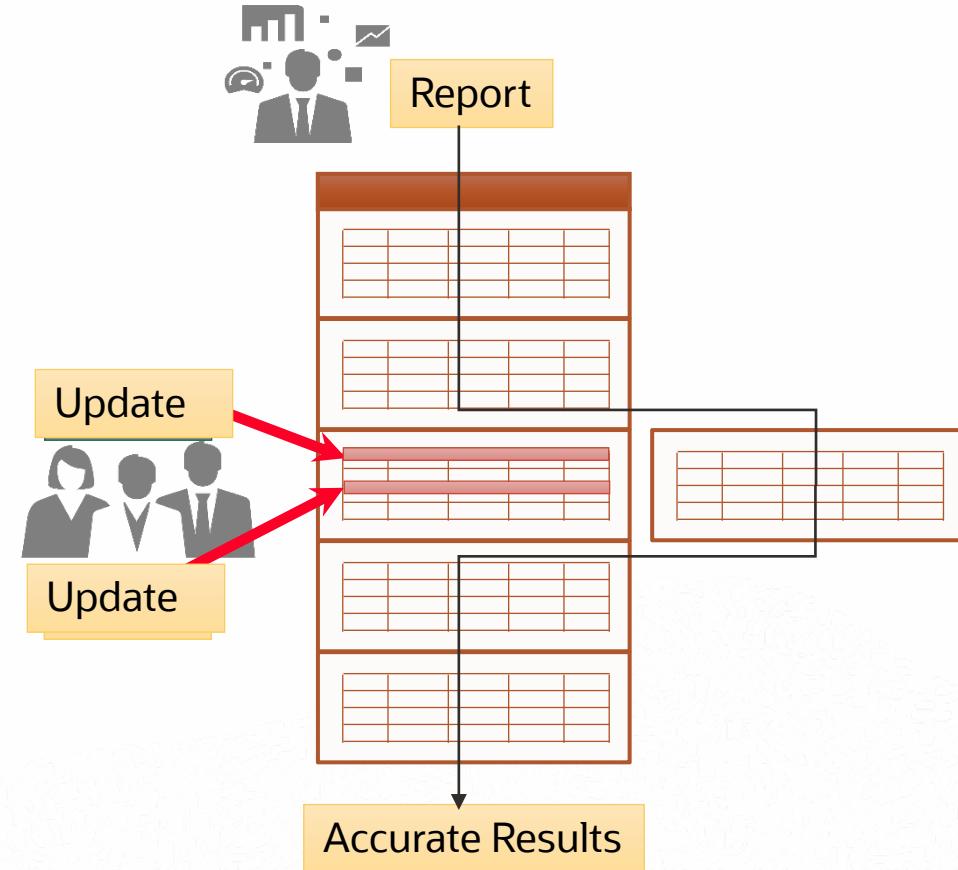
Oracle Database Multi-Version Consistency for OLTP and Analytics

Unique architecture built for concurrency

Maximum throughput with correct results

No lock escalation

- Readers don't block writers
- Writers don't block readers
- See only committed data via Multi-Versioning
- No waiting and no dirty reads!
- Scalable row level lock management



Multi-Workload

Our mission is to help people
see data in new ways, discover
insights, unlock endless possibilities.



Thank you!

Oracle Spain

