

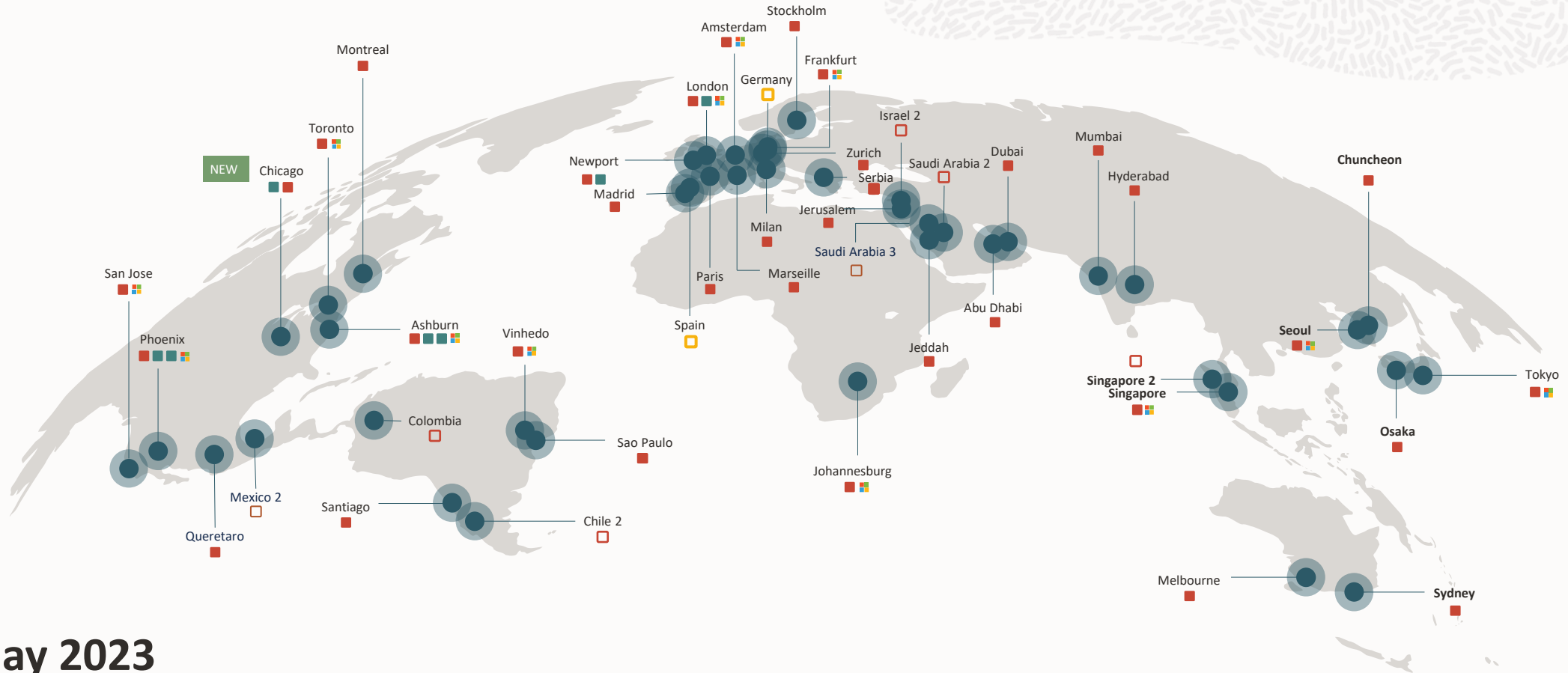
# OCI Connectivity Overview

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OCI Connectivity Services.

Cristian Sarafoleanu  
Cloud Networking Specialist

# Oracle Cloud Infrastructure Global Locations



May 2023

42 regions; 9 more planned

12 Azure Interconnect Regions

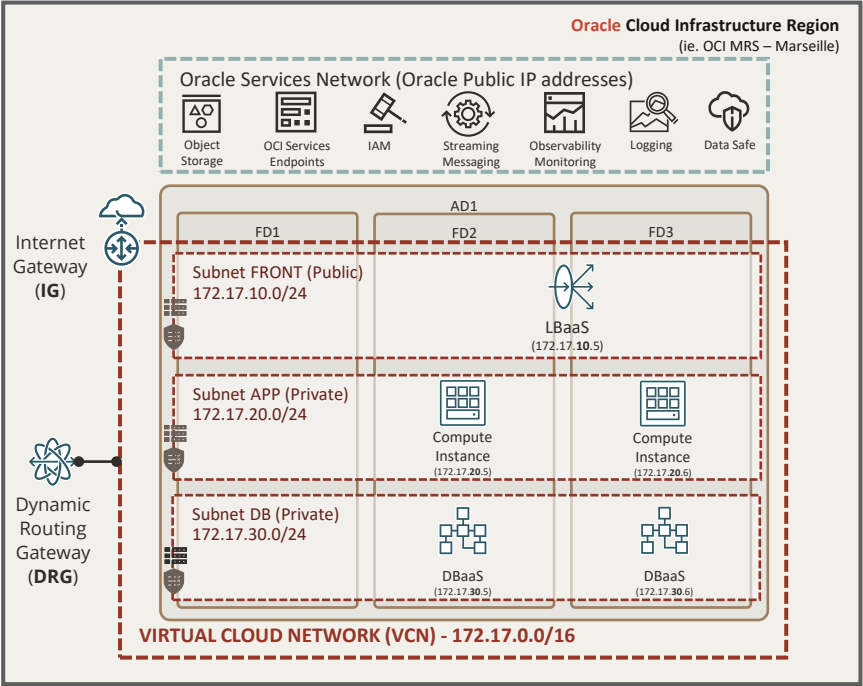
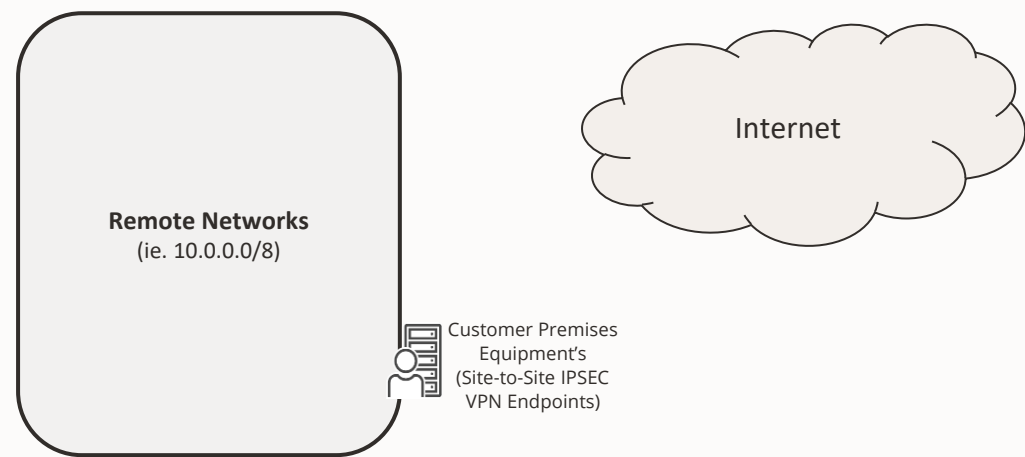
# OCI Customer Connectivity

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*OCI VPNConnect: Site to Site IPSEC VPN Connectivity.*

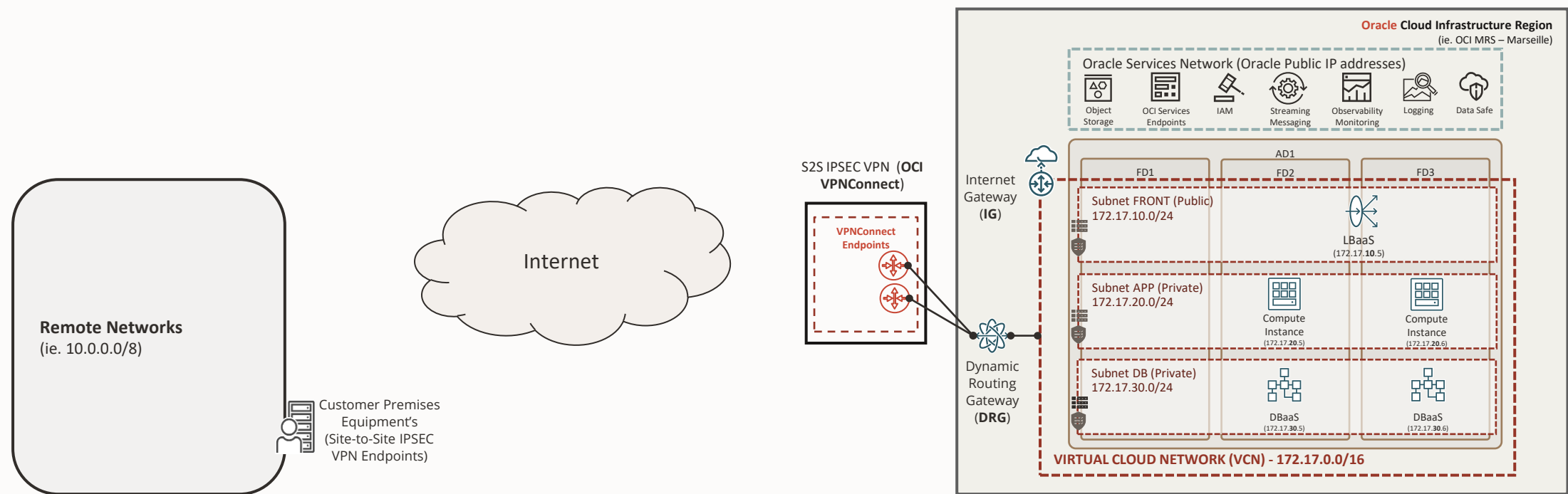
# OCI Customer Connectivity

## OCI VPNConnect (Managed S2S IPSEC VPN)



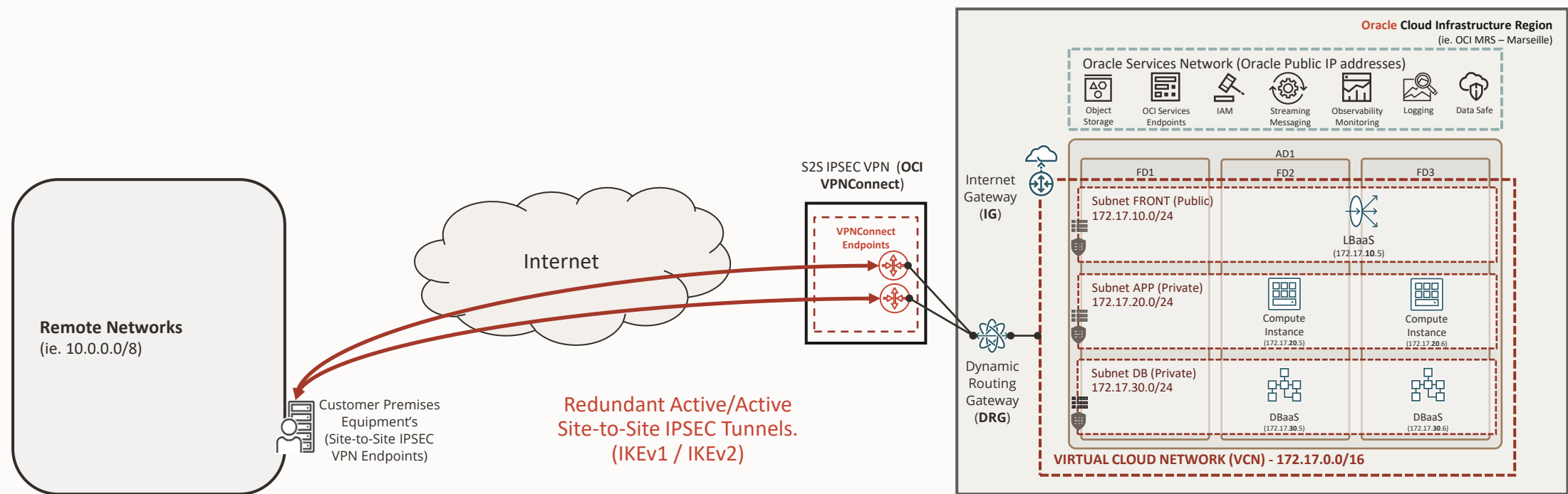
# OCI Customer Connectivity

## OCI VPNConnect (Managed S2S IPSEC VPN)



# OCI Customer Connectivity

## OCI VPNConnect (Managed S2S IPSEC VPN)





# OCI Customer Connectivity

## OCI VPNConnect (Supported IPSEC parameters for IKEv1 and IKEv2)

Supported IPSEC Parameters for IKEv1 and IKEv2 protocols.

Phase 1 (ISAKMP)

Parameter	Options
ISAKMP Protocol	Version 1
Exchange type	Main mode
Authentication method	Pre-shared keys *
Encryption algorithm	AES-256-cbc (recommended) AES-192-cbc AES-128-cbc
Authentication algorithm	SHA-2 384 (recommended) SHA-2 256 SHA-1 (also called SHA or SHA1-96)
Diffie-Hellman group	group 2 (MODP 1024) group 5 (MODP 1536) group 14 (MODP 2048) group 19 (ECP 256) group 20 (ECP 384) (recommended)
IKE session key lifetime	28800 seconds (8 hours)

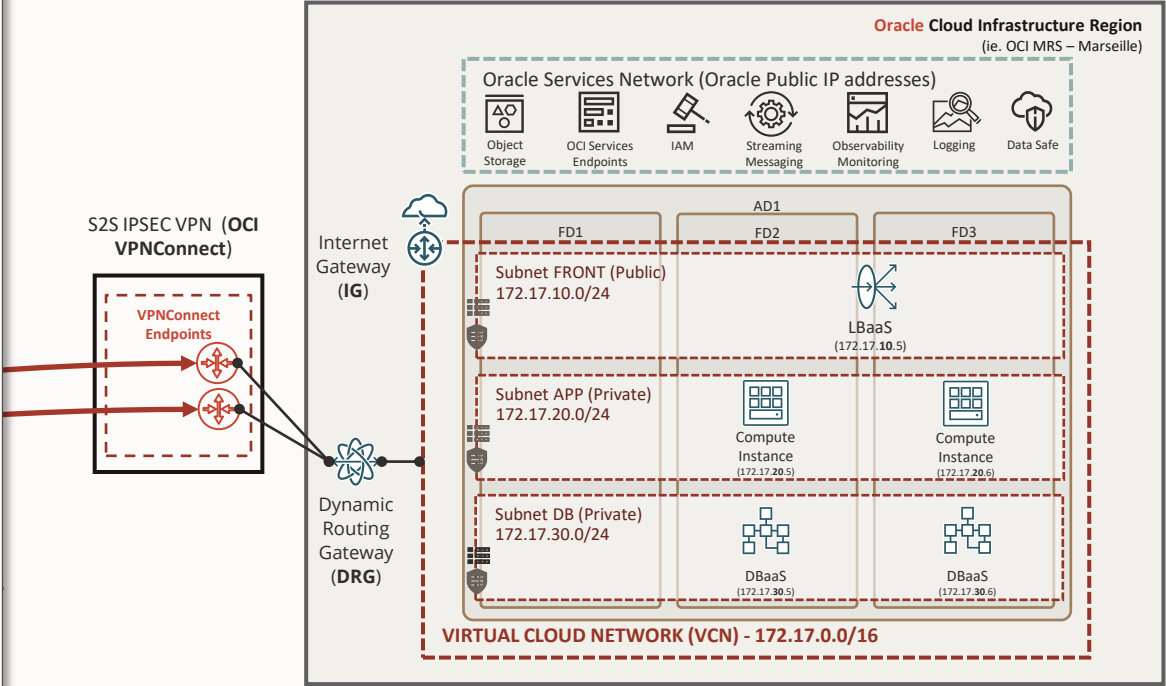
\* Only numbers, letters, and spaces are allowed characters in pre-shared keys.

Phase 2 (IPSEC)

Parameter	Options
IPSec Protocol	ESP, tunnel mode
Encryption algorithm	AES-256-gcm (recommended) AES-192-gcm AES-128-gcm AES-256-cbc AES-192-cbc AES-128-cbc
Authentication algorithm	If using GCM (Galois/Counter Mode), no authentication algorithm is required because authentication is included with GCM encryption. If not using GCM, the following options are supported: HMAC-SHA-256-128 (recommended) HMAC-SHA1-96
IPSec session key lifetime	3600 seconds (1 hour)

Perfect Forward Secrecy (PFS)

enabled, group 5



<https://docs.oracle.com/en-us/iaas/Content/Network/Reference/supportedIPsecparams.htm>

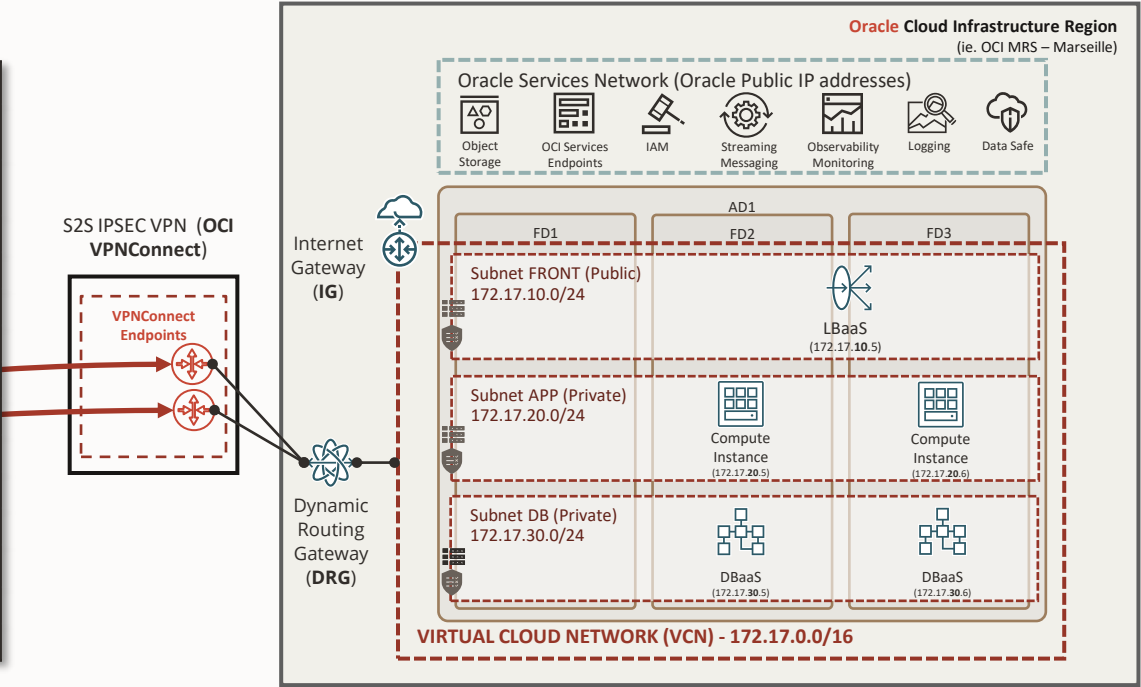


# OCI Customer Connectivity

## OCI VPNConnect (Verified CPEs Configurations)

<https://docs.oracle.com/en-us/iaas/Content/Network/Reference/CPElist.htm>

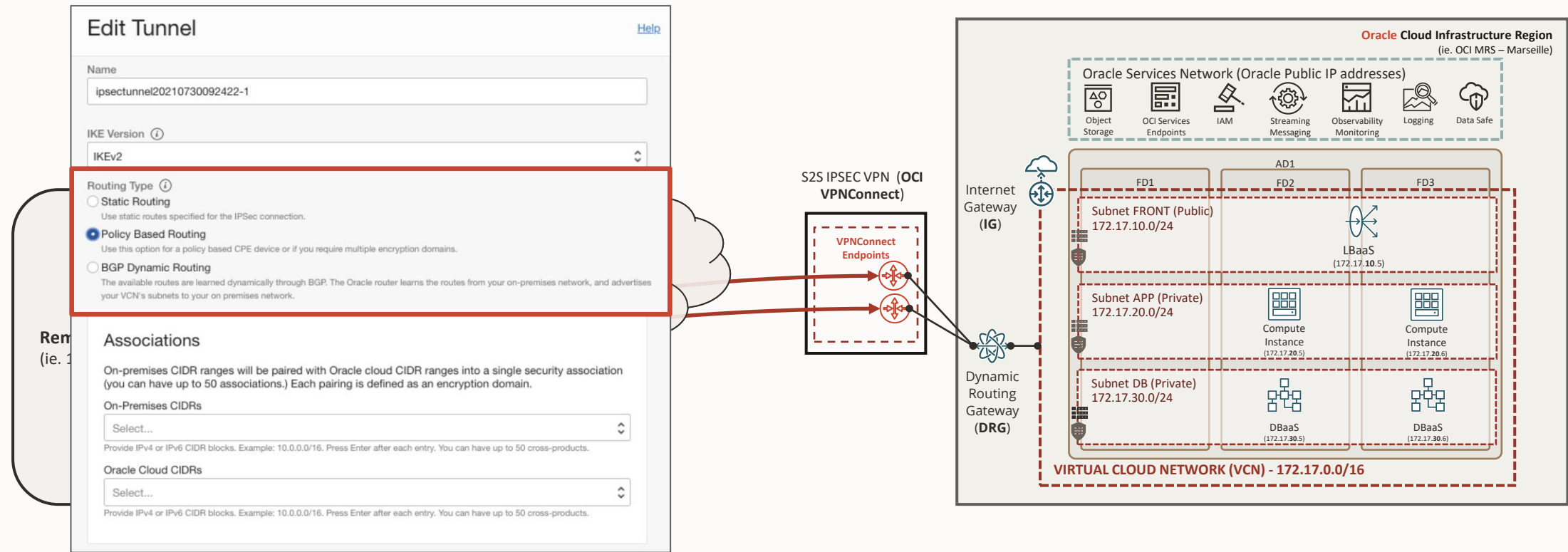
Vendor	Device	Minimum Verified Software Version	Configuration	Media
Check Point Software Technologies	2200 or Open Server	R80.20	<a href="#">Check Point Configuration Options</a>	<a href="#">Video</a>
Cisco Systems	ASA	9.7.1 (recommended)	<a href="#">Cisco ASA Configuration Options</a>	<a href="#">Video: Route-based</a> <a href="#">Video: Policy-based</a>
Cisco Systems	2921	IOS version 15.4(3)M3	<a href="#">Cisco IOS</a>	<a href="#">Video</a>
Fortinet	FortiGate-VM	6.0.4	<a href="#">FortiGate</a>	<a href="#">Video</a>
Furukawa Electric	FITELnet-F220/F221	01.00(00)[0]00.00.0 [2019/07/05 15:00]	<a href="#">Furukawa Electric</a>	
Juniper Networks	MX 240	JunOS 15.1	<a href="#">Juniper MX</a>	
Juniper Networks	SRX 240	JunOS 11.0	<a href="#">Juniper SRX</a>	<a href="#">Video</a>
Libreswan		3.18	<a href="#">Libreswan</a>	<a href="#">Video</a>
NEC	IX3315	10.2.16	<a href="#">NEC IX Series</a>	
NEC	IX2106	10.2.16	<a href="#">NEC IX Series</a>	
Palo Alto Networks	PA-500	PanOS version 8.0.0	<a href="#">Palo Alto</a>	<a href="#">Video</a>
WatchGuard Technologies	Firebox	Fireware v12	<a href="#">WatchGuard</a>	
Yamaha	RTX1210	Firmware Rev.14.01.28	<a href="#">Yamaha RTX Series</a>	
Yamaha	RTX830	Firmware Rev.15.02.03	<a href="#">Yamaha RTX Series</a>	





# OCI Customer Connectivity

## OCI VPNConnect (Supported Routing Types)

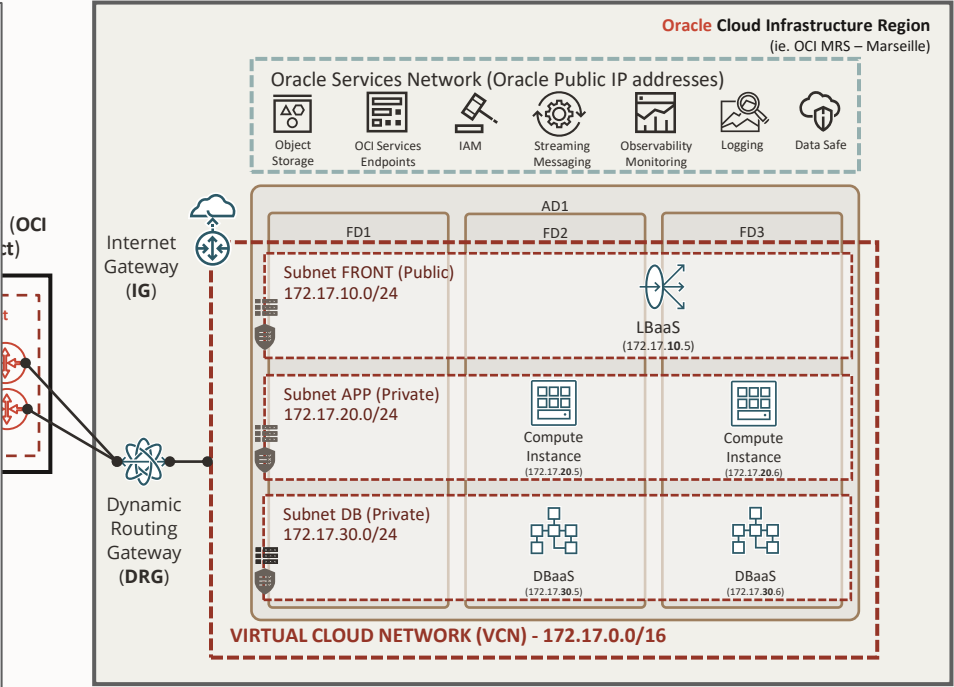
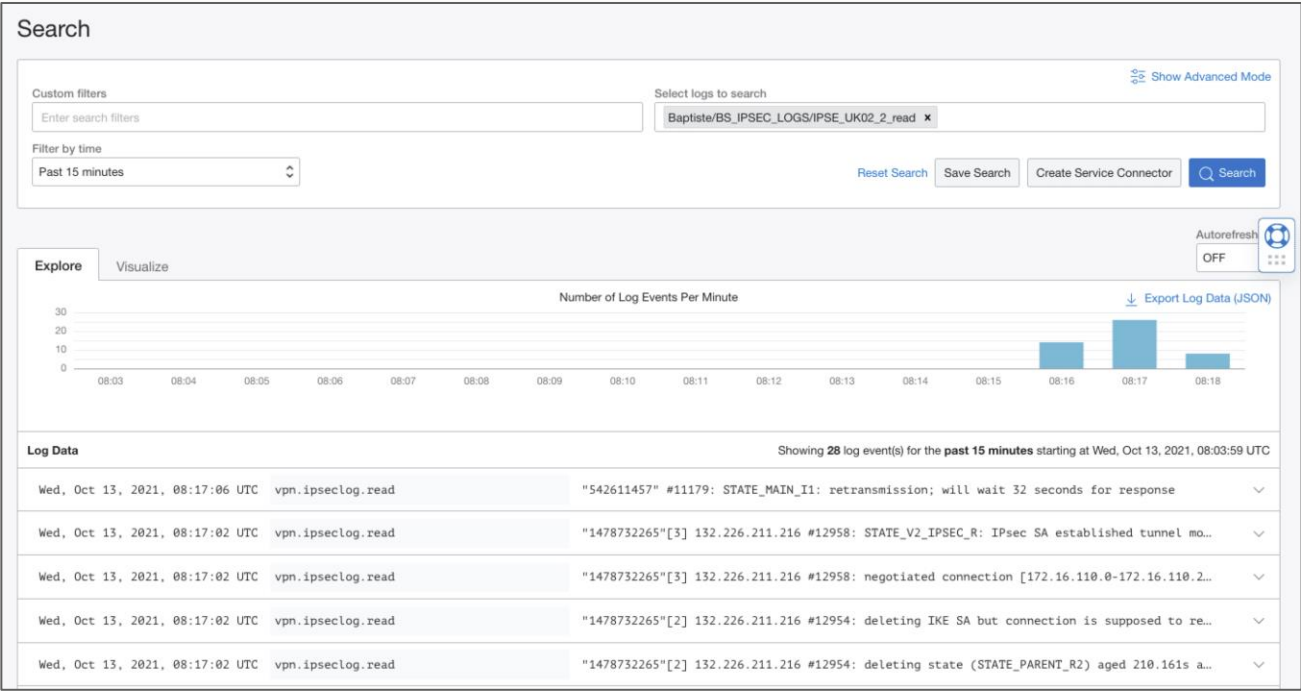


<https://docs.oracle.com/en-us/iaas/Content/Network/Reference/supportedIPsecparams.htm>



# OCI Customer Connectivity

## OCI VPNConnect (IPSEC Logging)



<https://docs.oracle.com/en-us/iaas/Content/Network/Reference/supportedIPsecparams.htm>

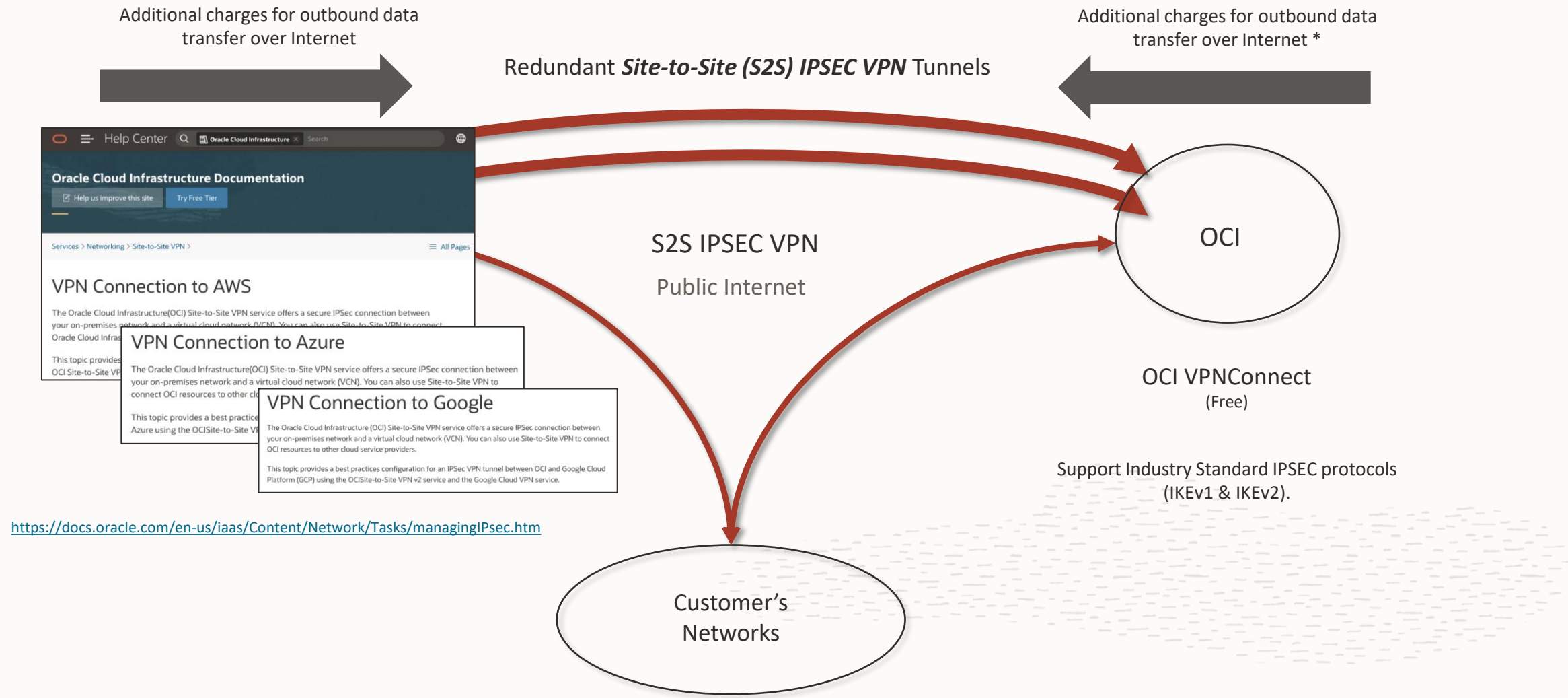


# MultiCloud Connectivity

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Secure Connectivity via **Site to Site IPSEC VPN.**

# Multi Cloud Connectivity over Public Internet : OCI VPNConnect



ORACLE

