

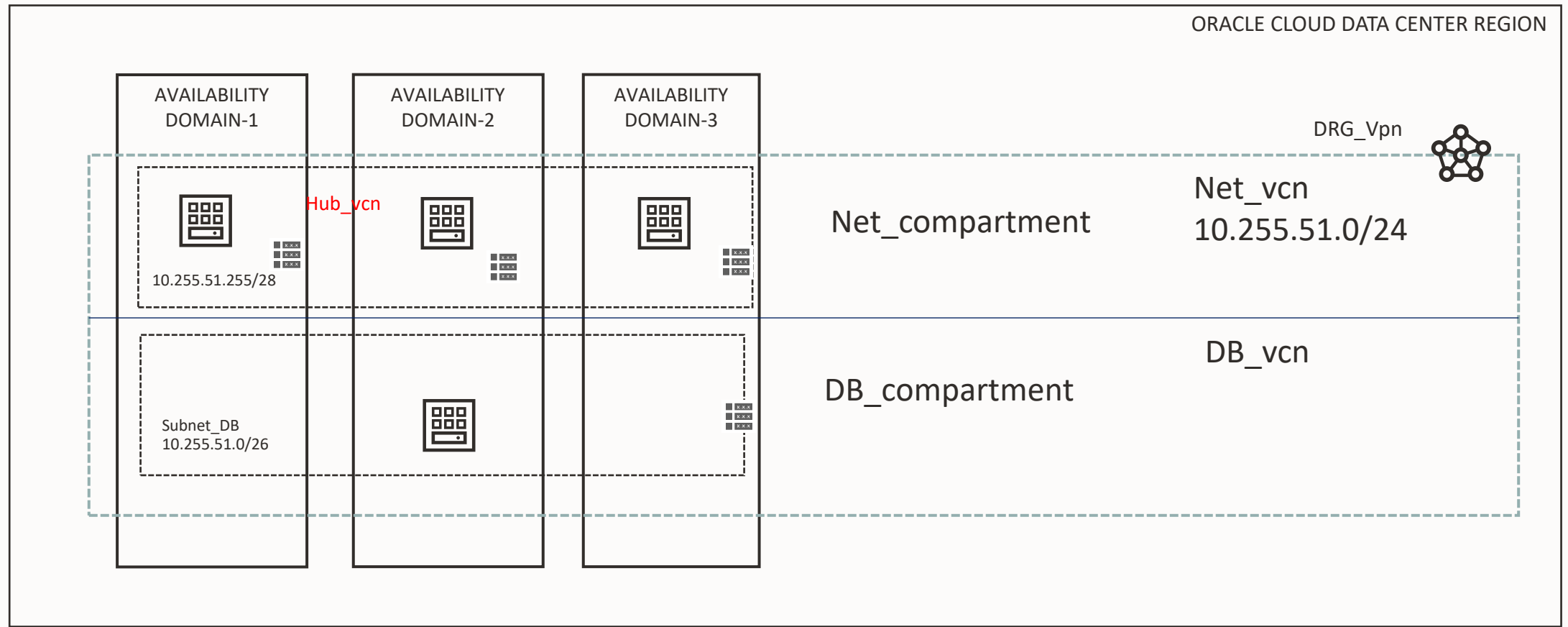
An abstract graphic on the left side of the slide, composed of numerous thin, horizontal, wavy lines in a light gray color, creating a sense of motion or a stylized cloud.

Virtual Cloud Network

Oracle Cloud Infrastructure



VCN & Subnets



VCN Peering

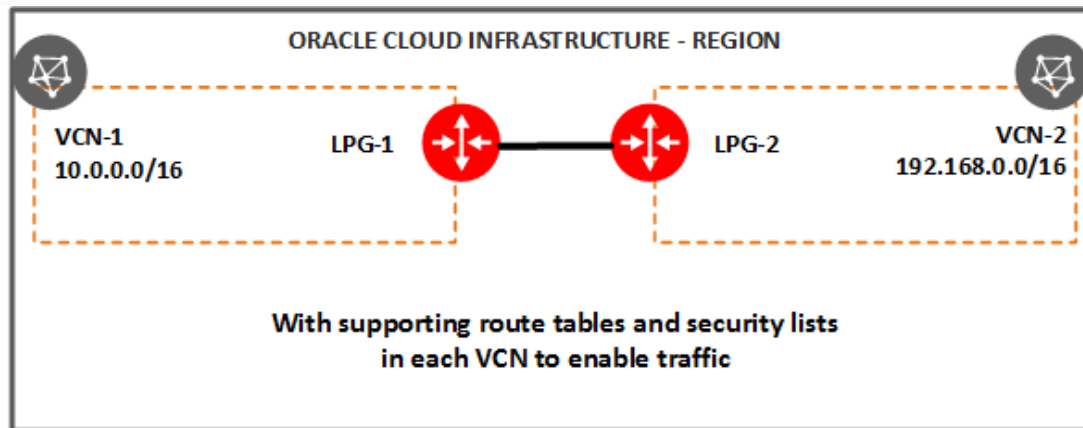
- Enables connectivity between the resources in different VCNs
- Does not require public IPs or NAT to enable connectivity
- Traffic never leaves the Oracle Network
- Over other options such as connecting over the internet, VCN Peering offers
 - Faster connectivity
 - Higher security
- Types of VCN Peering available
 - Local Peering (In-region)
 - Remote Peering (Cross-region)

Local VCN Peering – connecting VCNs in the same region

- Connecting two VCNs in the same region so that their resources can communicate using private IP addresses without routing the traffic over the internet or through your on-premises network.
- VCNs should not have overlapping IP addresses
- Local Peering VCNs can be either in the same or different tenancies (cross-tenancy peering)

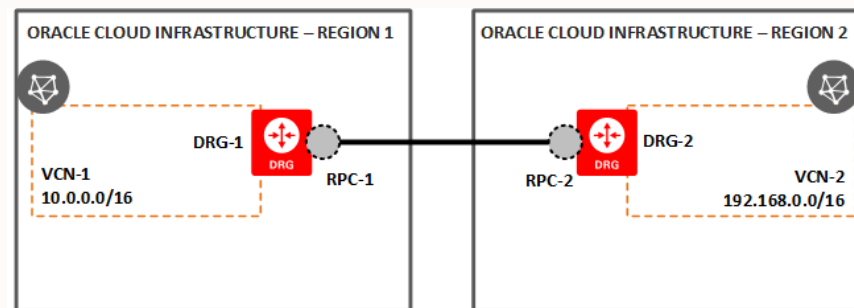
Local Peering Gateway (LPG)

- Like the Internet Gateway, LPG is a component on the VCN
- LPGs of two VCNs are connected to make a peering relationship
- Enable the data plane to learn about instances in peered VCNs



Remote VCN Peering – connecting VCNs in the different region

- Traffic flows between regions through the OCI backbone network
- Supported between ASH – PHX and LHR-FRA, other regions on roadmap.
- The two VCNs in the peering relationship must not have overlapping CIDRs
- Requires a DRG to set up the Remote Peering connection; vNIC of one VCN instance forwards traffic to its DRG, which forwards traffic to peer DRG in other region over backbone
- Enables features such as data replication across regions
- **Remote Peering Connection**
 - Like Virtual Circuits, the Remote Peering Connection is a component of DRG
 - RPCs of two DRGs from two regions are connected to create a peering relationship



With supporting route tables and security lists
in each VCN to enable traffic

VCN Peering Link and Demos

Demo to build Local Peering

- <https://learn.oracle.com/ols/course/oracle-cloud-infrastructure-architect-associate-workshop/35644/80259/102540>

Demo remote peering

- <https://www.youtube.com/watch?v=2TOL5tJQ-fU>

Demo transit routing Local+Remote Peering

- <https://learn.oracle.com/ols/course/oracle-cloud-infrastructure-architect-professional-workshop/35644/86765/123287>

A-Team doc

- https://www.ateam-oracle.com/interconnect-tenancies-across-regions#_Introduction



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