IBM
2019 IBM Cloud
用戶實作研習營

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Virtual Private Cloud (VPC)

多重備援的神奇魔力

講義與實作文件下載處

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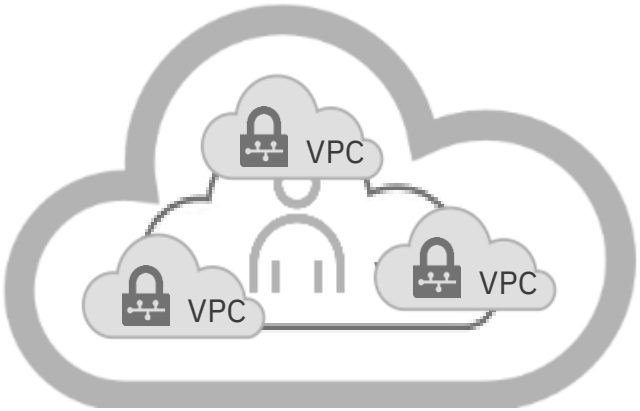
Virtual Private Cloud (VPC)

VPC is a space on a public cloud that allows you to define a virtual private network where you deploy, secure, control and manage cloud resources dedicated to your business.

VPC is your own space in the cloud



Accelerate non-disruptive cloud adoption and migration with VPCs

VPCs enable native Bring-Your-own-IP (BYoIP) address range for non-disruptive connectivity of cloud and on-premises resources

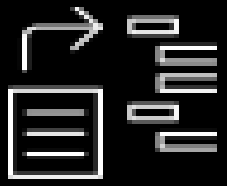
Flexible migration of workloads that uses advertised IP address prefixes to the IBM Cloud

Simpler VPCs with bring your own private IP without NAT or Tunnels

Non-disruptive on-premises cconnectivity without changes to existing networking environments

Keep Traffic flowing from endpoints that use the private IP address through services that utilize IP address reputation

Expand your workload options with VPCs



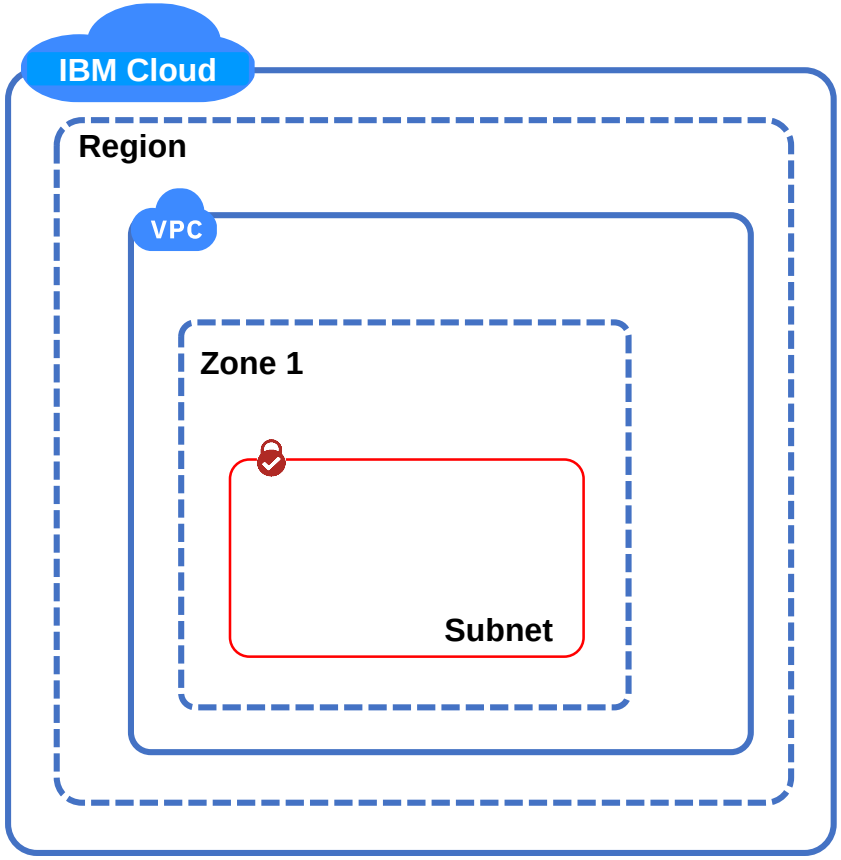
VPC enables business applications workloads to easily migrate to the cloud, or just burst into the cloud as needed. Availability Zones (AZ) with no shared points of failure keep your workloads available.

VPC is available in **multiple regions with multiple AZs** in each region for higher availability

Allow clients to scale as needed with MZRs without worrying about resources or capacity

Utilize private service endpoints that connect to a number of IBM Public Cloud services

Building blocks of a VPC



PUBLIC GATEWAY

VPN

ROUTER

FIP

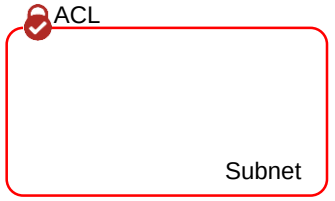
FLOATING IP

LOAD BALANCER

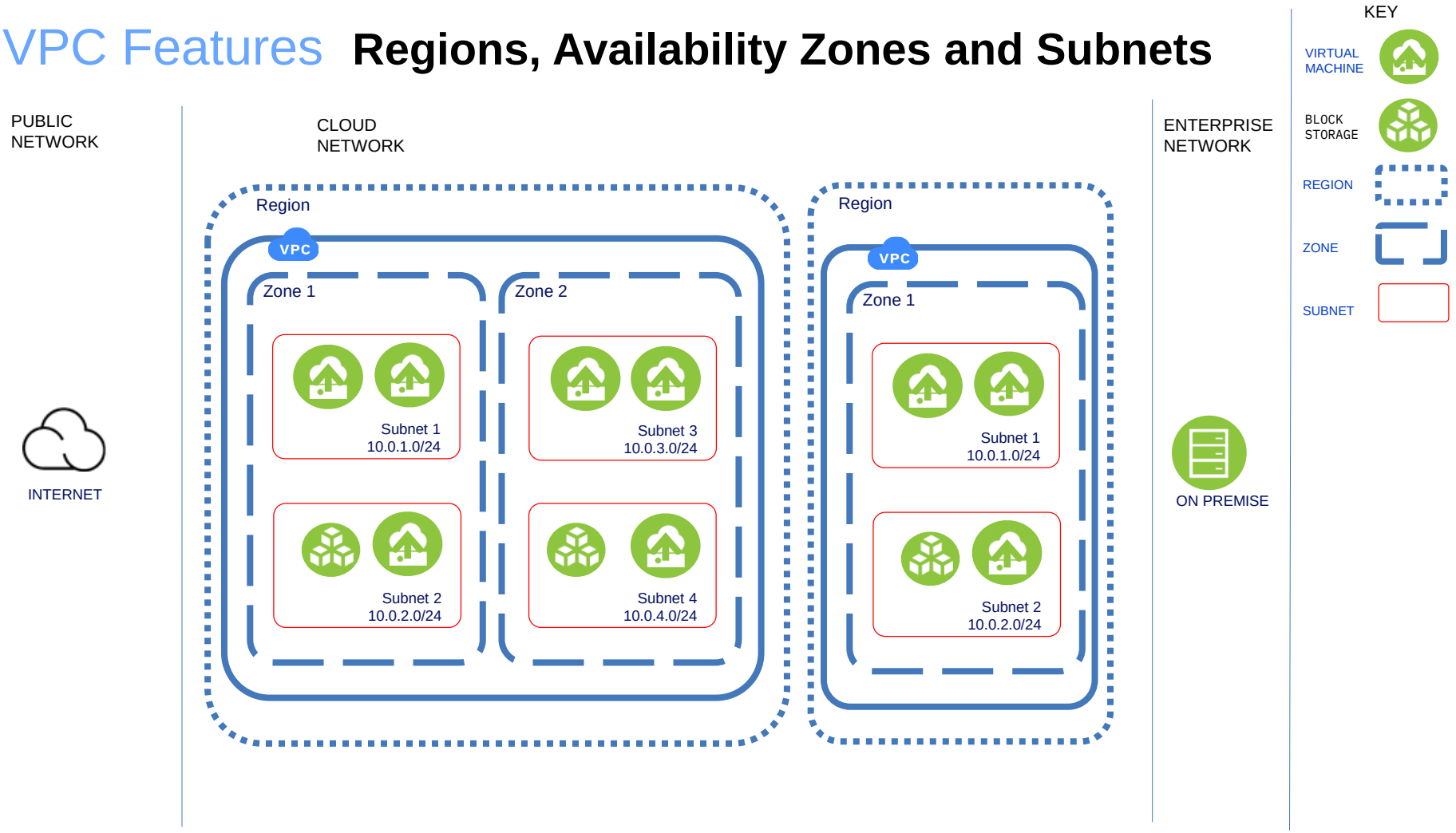
DIRECT LINK

VIRTUAL MACHINE

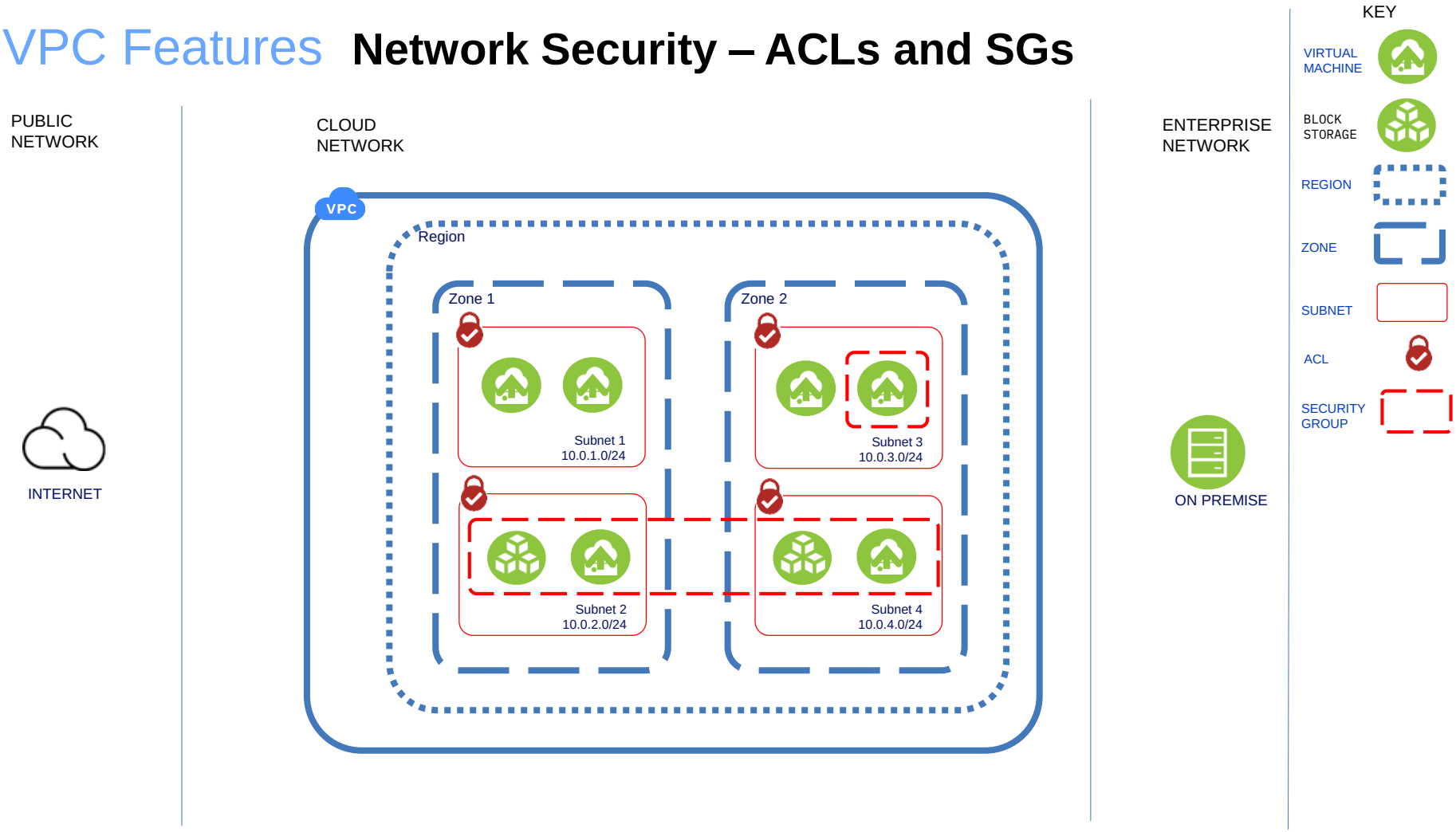
BLOCK STORAGE



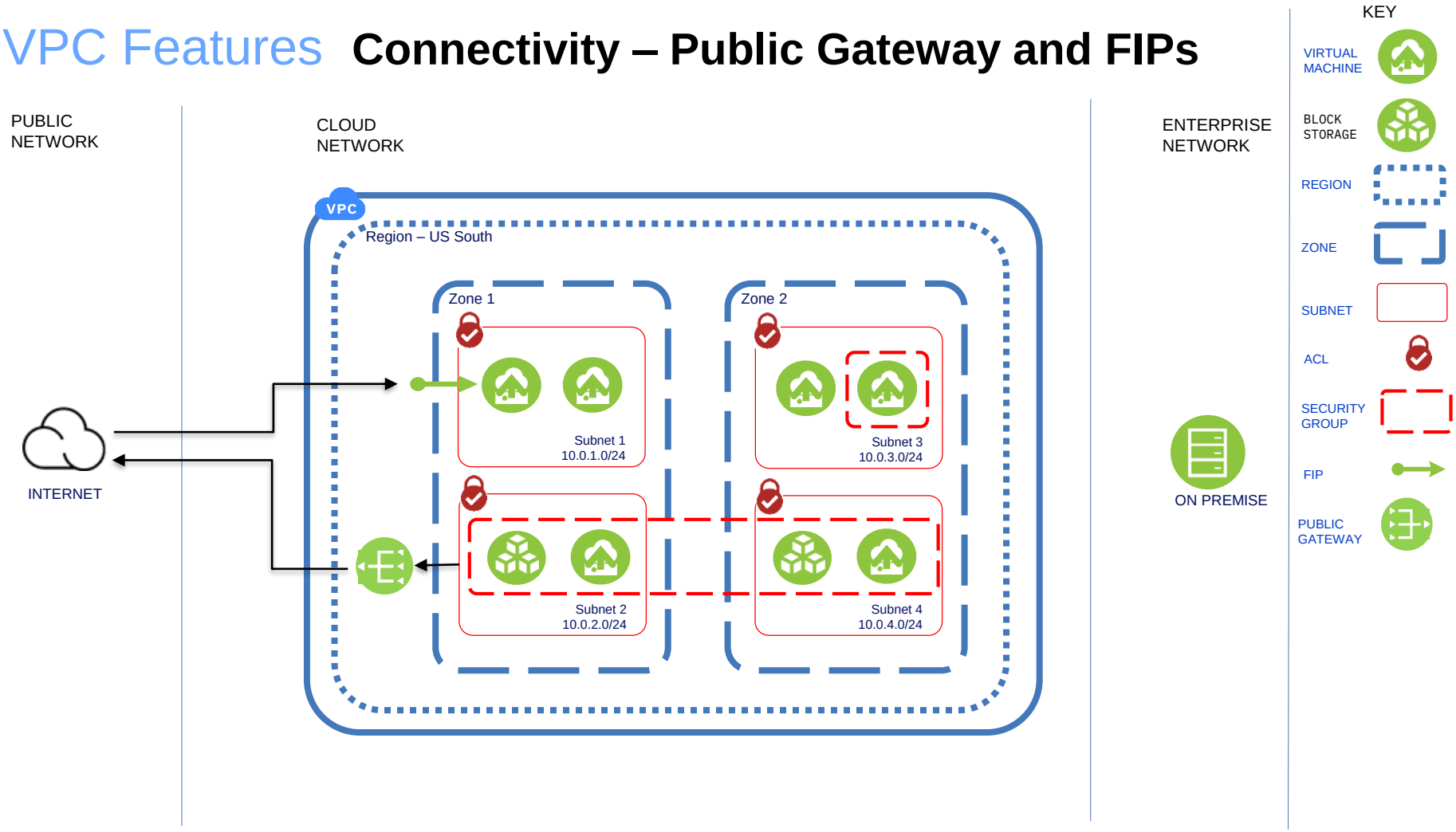
VPC Features **Regions, Availability Zones and Subnets**



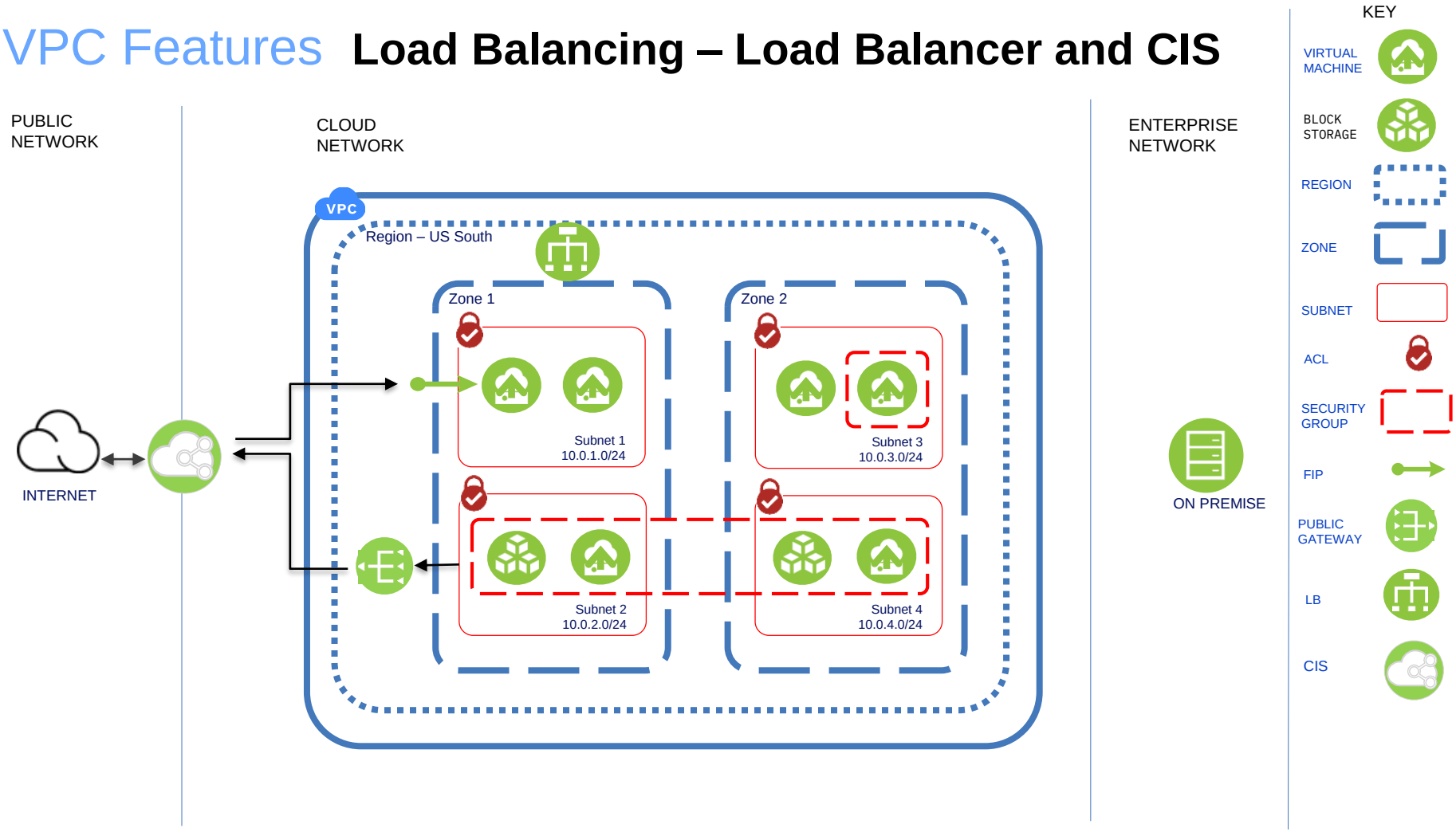
VPC Features **Network Security – ACLs and SGs**



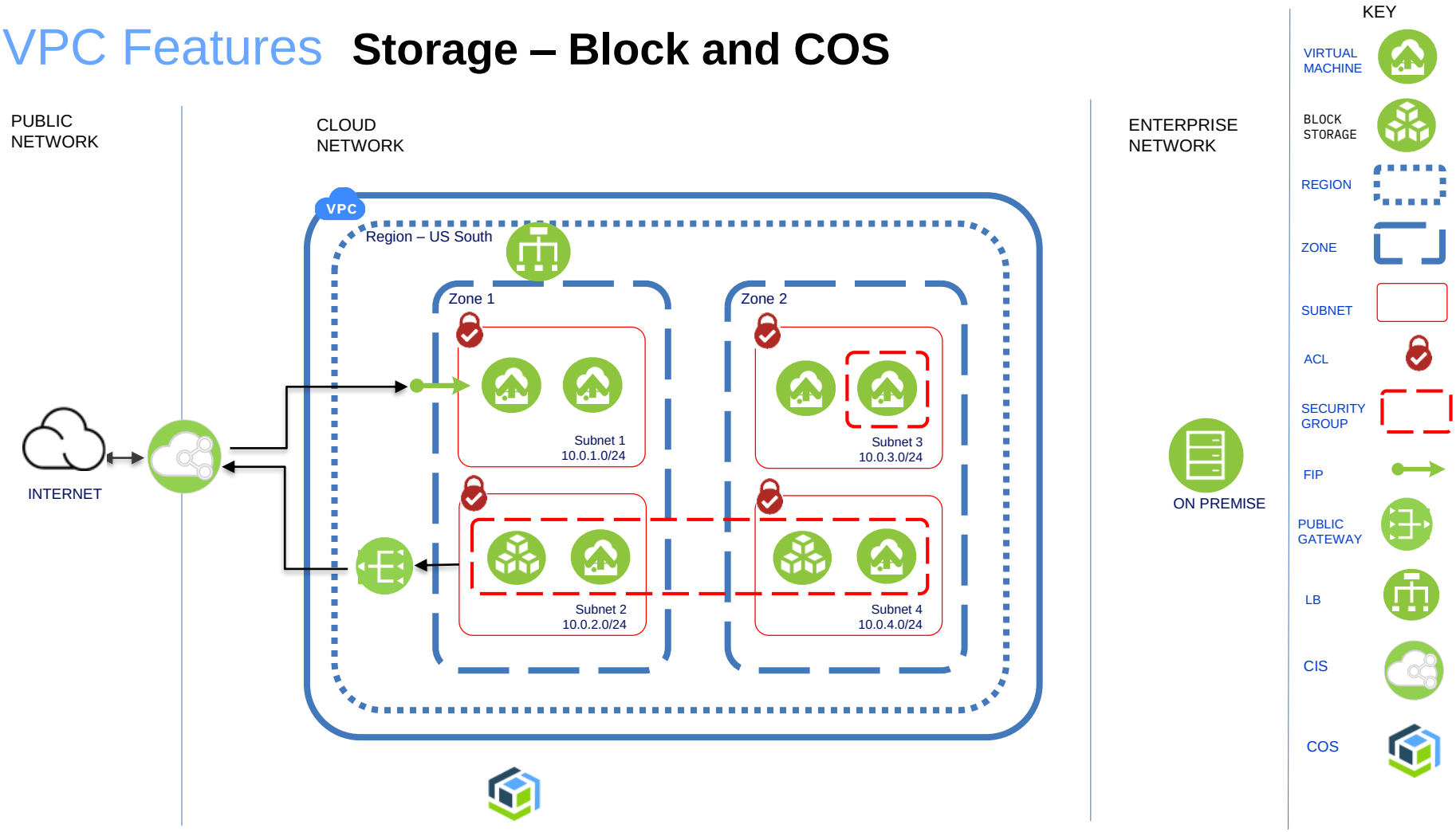
VPC Features **Connectivity – Public Gateway and FIPs**



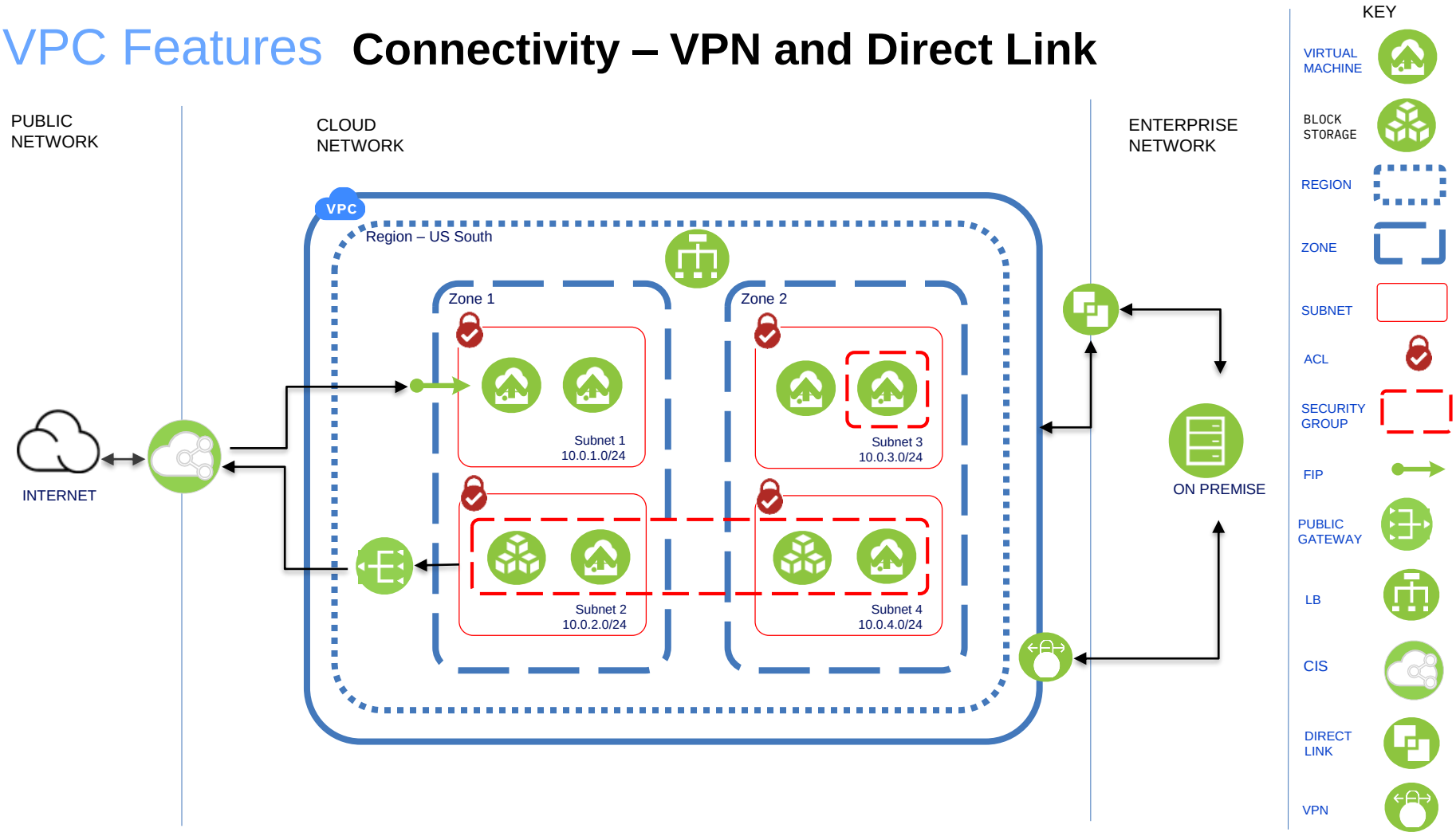
VPC Features **Load Balancing – Load Balancer and CIS**



VPC Features **Storage – Block and COS**



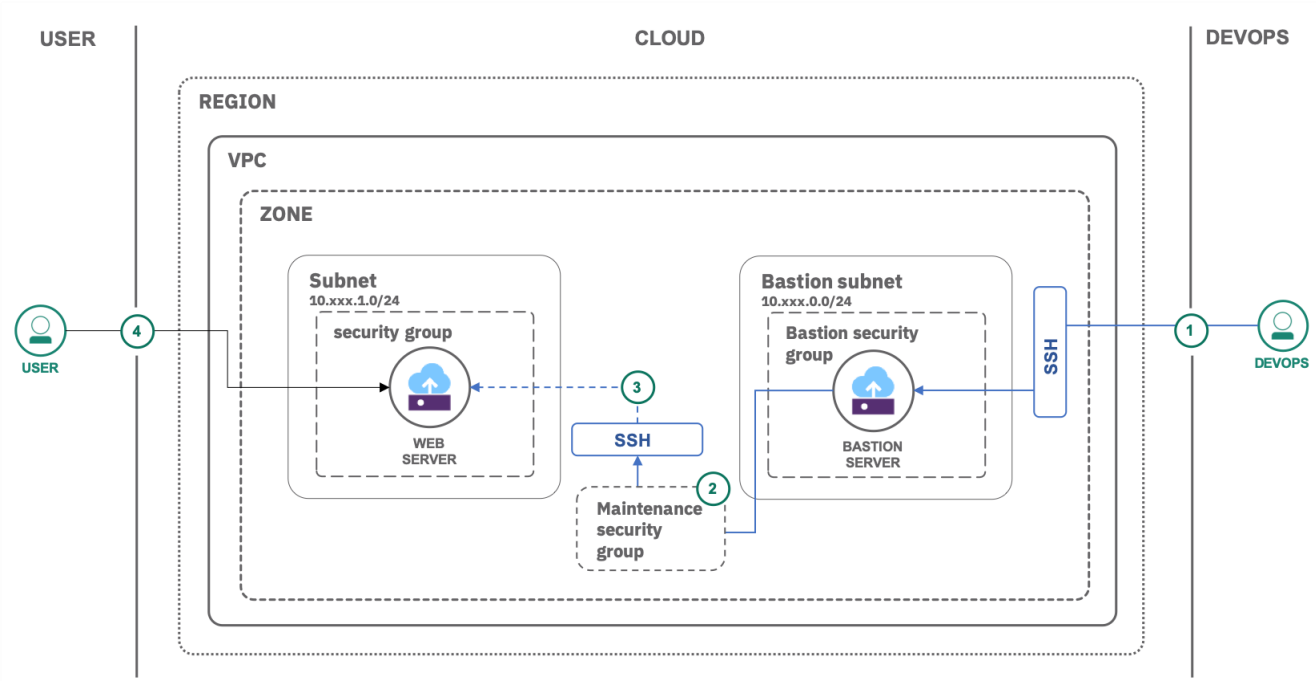
VPC Features **Connectivity – VPN and Direct Link**



VPC 實作

Securely access remote instances with a bastion host

IaasPaas Workshop - VPC.pdf



THANK YOU

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