

Section 20 Cloud Networking

Cloud Networking Concepts

* IP addressing

- IPv4 only for exam
- 4 octet

↳ Routing Prefix

↳ Device identifier

CIDR Notation

24 Bits for Routing

8 Bits for device

192.168.1.50/24

* CIDR

- classless inter domain Routing
- Larger number after the slash the less addresses available

Firewalls in Google Cloud

- Direction of traffic
 - ↳ Ingress → incoming
 - ↳ Egress → outgoing
- Deny or allow traffic
- Priority: 0 - 65535
- Implicit Rules cannot be deleted

Load Balancing

Characteristics

- Global vs Regional
- External vs Internal
- Traffic type

Global distribute across 12 regions

↳ always external

↳ requires premium-tier Network

Regional

↳ Internal TCP/UDP

↳ Network TCP/UDP

DNS Zones

→ under Cloud DNS

→ Map IP address to a Name