Amazon Virtual Private Cloud (VPC) Peering Connections
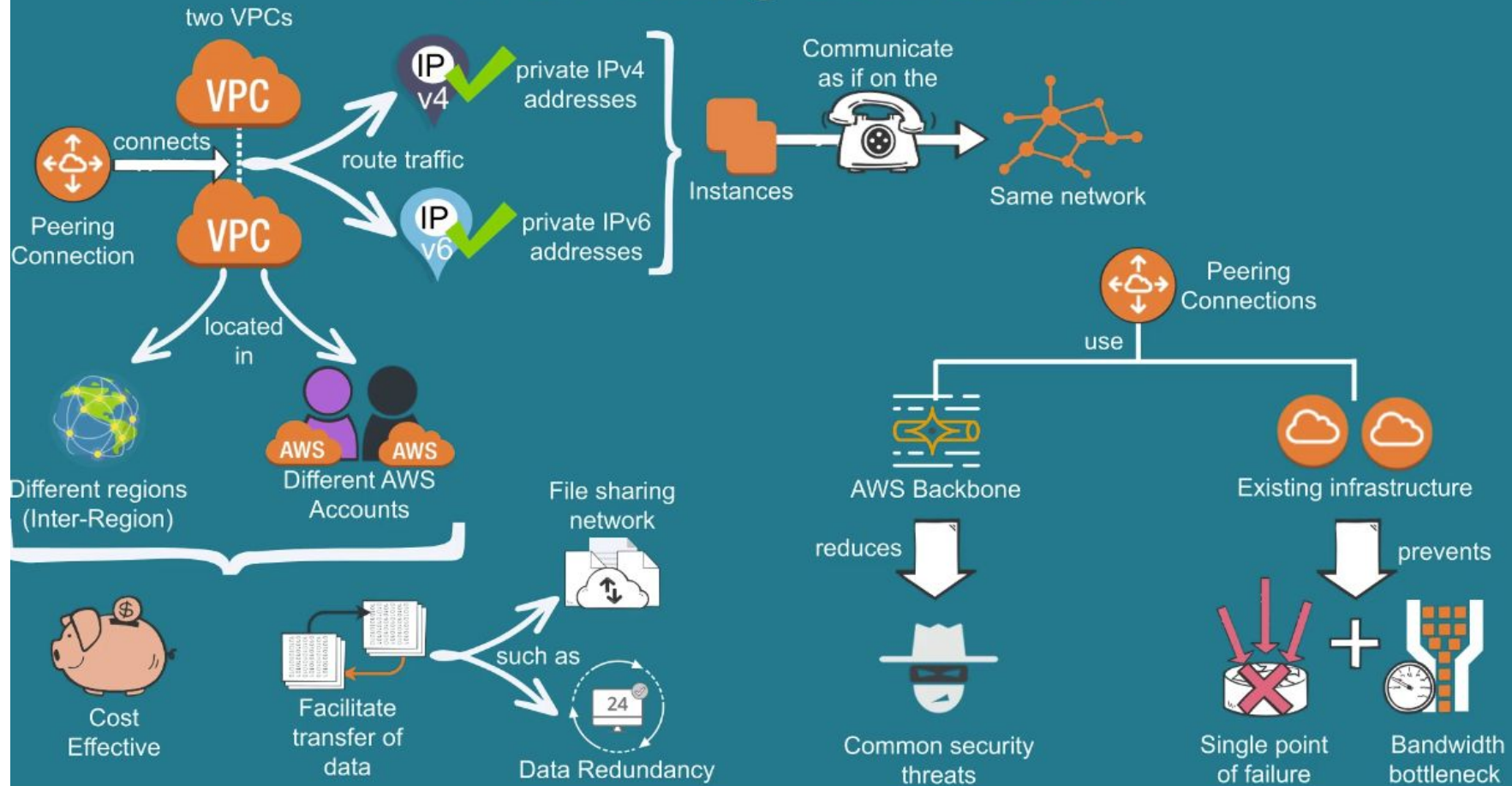
VPC Peering Connections

two VPCs

VPC

connects

VPC

Peering Connection

route traffic

IP v4 ✓ private IPv4 addresses

IP v6 ✓ private IPv6 addresses

Communicate as if on the

Instances

Same network

located in

Different regions (Inter-Region)

AWS **AWS** Different AWS Accounts

Cost Effective

Facilitate transfer of data

such as

File sharing network

24

Data Redundancy

Peering Connections

use

AWS Backbone

reduces

Common security threats

Existing infrastructure

prevents

Single point of failure

+

Bandwidth bottleneck

Establishing VPC Peering Connection

AWS

VPC 10.0.0.0/16

Private subnet
10.0.10.0/24

Requester

Instances

AZ

1 Send peering request

2 Accepts peering request

VPC 172.31.0.0/16

Public subnet
172.31.10.0/24

Accepter

Instances

AZ

4 Update security groups

3 Manually add routes in each VPC

Destination	Target
10.0.0.0/16	local
172.31.0.0/16	peering id

Destination	Target
172.31.0.0/16	local
10.0.0.0/16	peering id

Overlapping CIDR

CIDR CIDR

10 . 0 . 0 . 0 / 16

Unsupported Peering Configurations

Include

Unable to access through peering alone

VPC ❌ VPC

VPC

Transitive properties

VPC ❌

Similarly

VPC

Edge to edge routing