DIGITAL TALENT SCHOLARSHIP 2020

TERBUKA UNTUK DISABILITAS

BREAK YOUR LIMITS !

Migration to Cloud

Agenda

- VPN
- Direct Connect
- Snowball Family
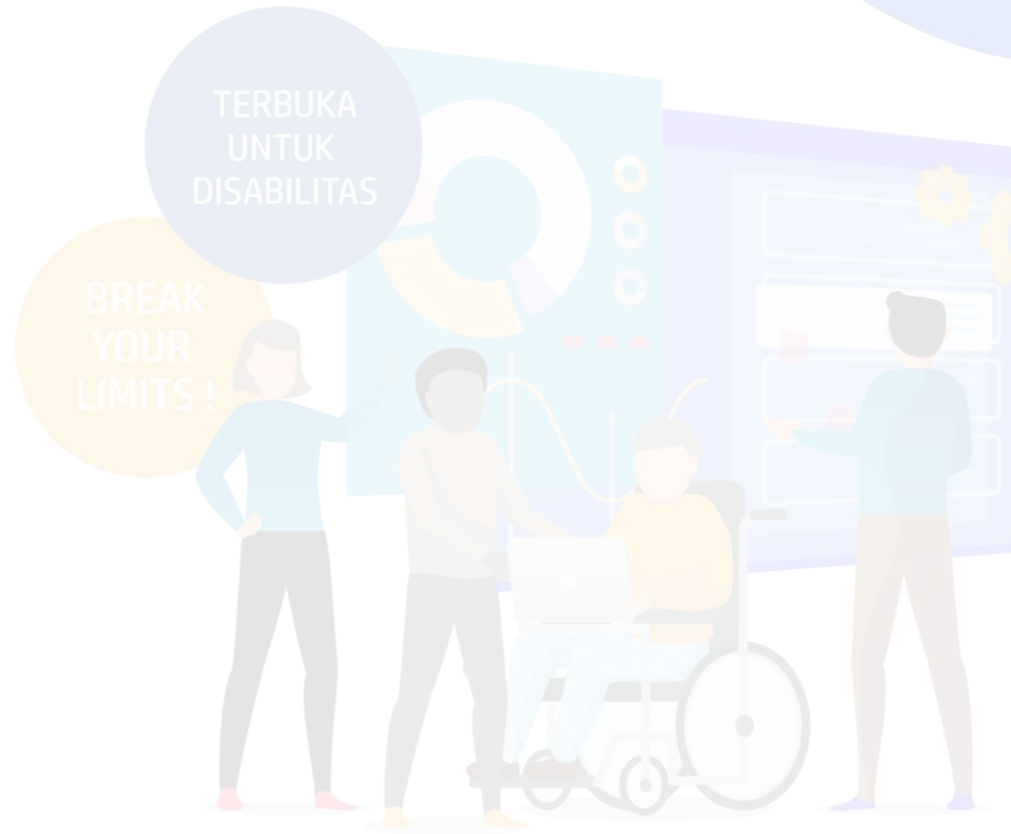
How do you integrate on-premises components into your environment?

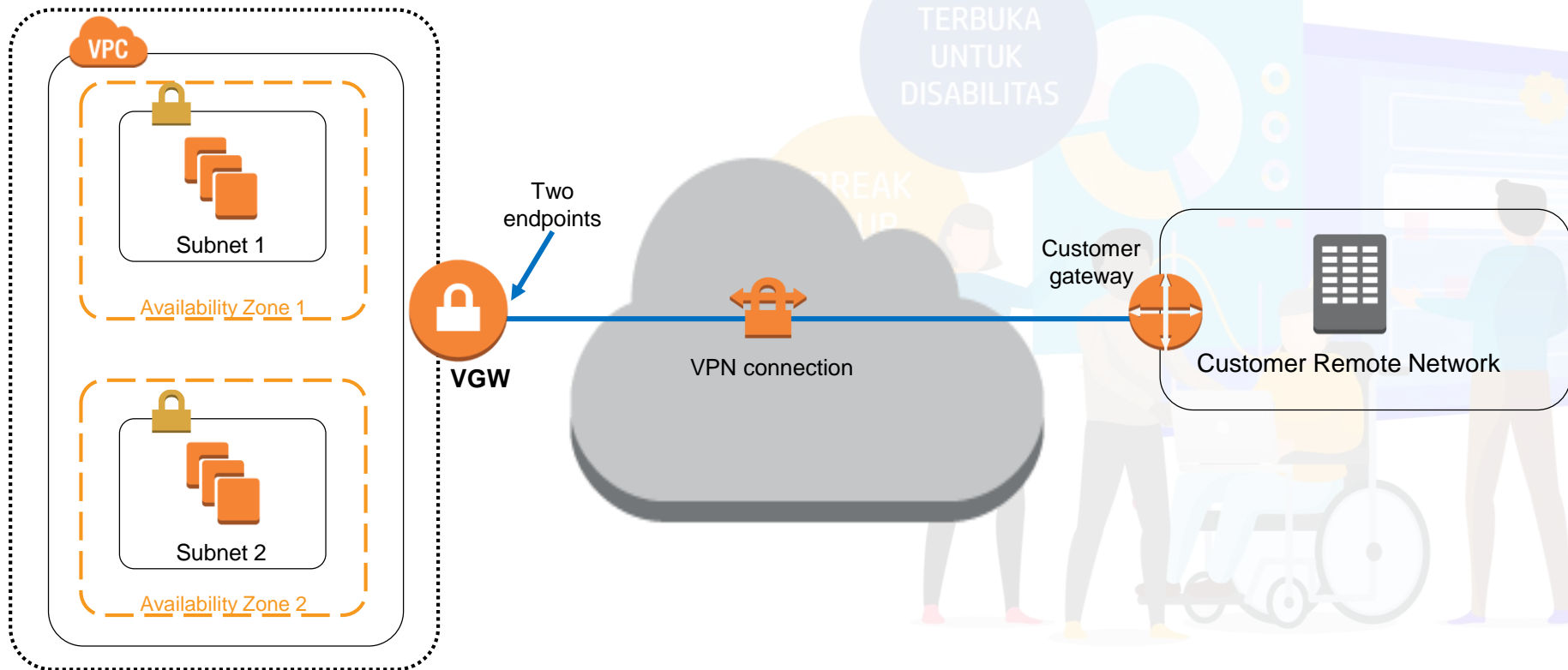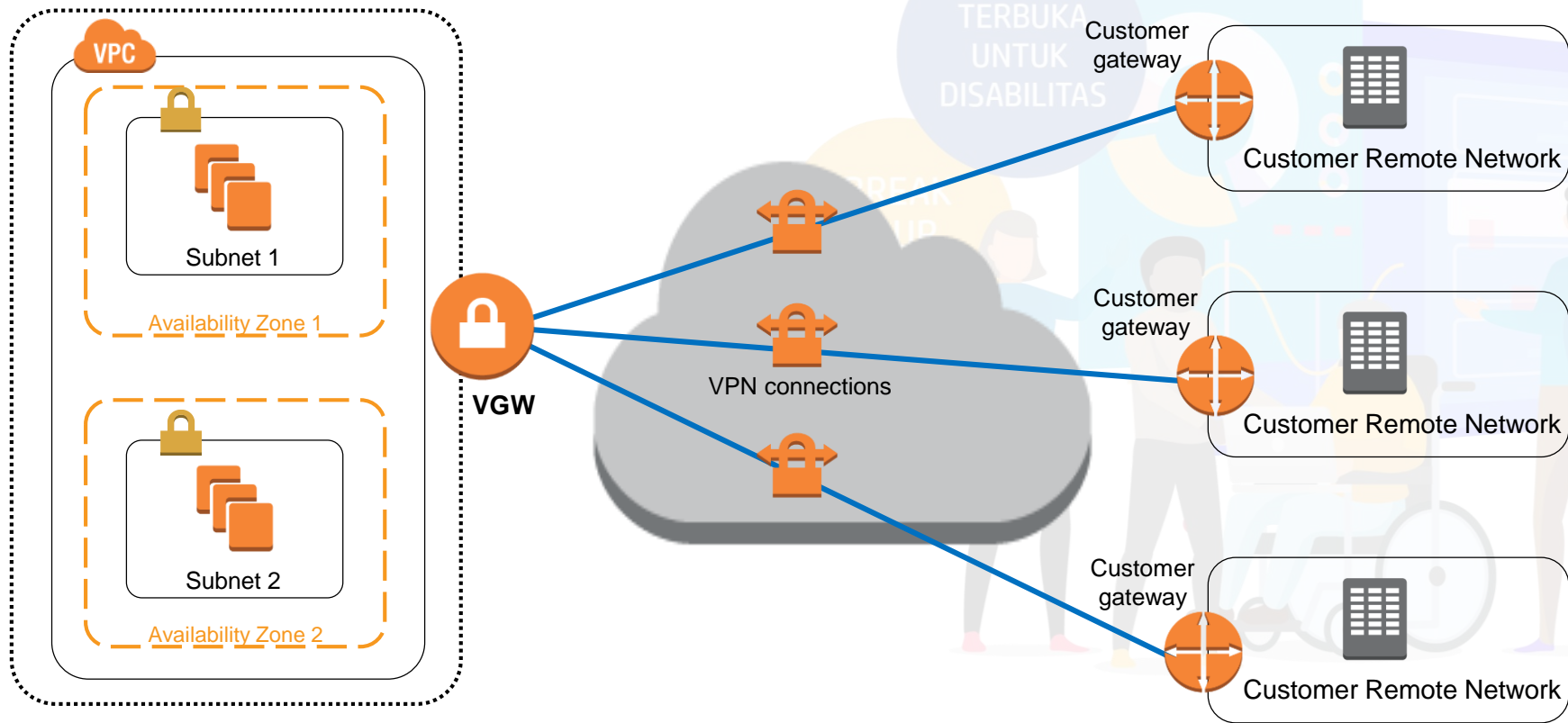# Extending On-Premises Network to AWS: VPN Connections

Extending On-Premises Network to AWS: Multiple VPN

AWS Direct Connect

AWS Direct Connect provides you with a private network connection between AWS and your data center.

It is a network service alternative to using the Internet to access AWS cloud services.
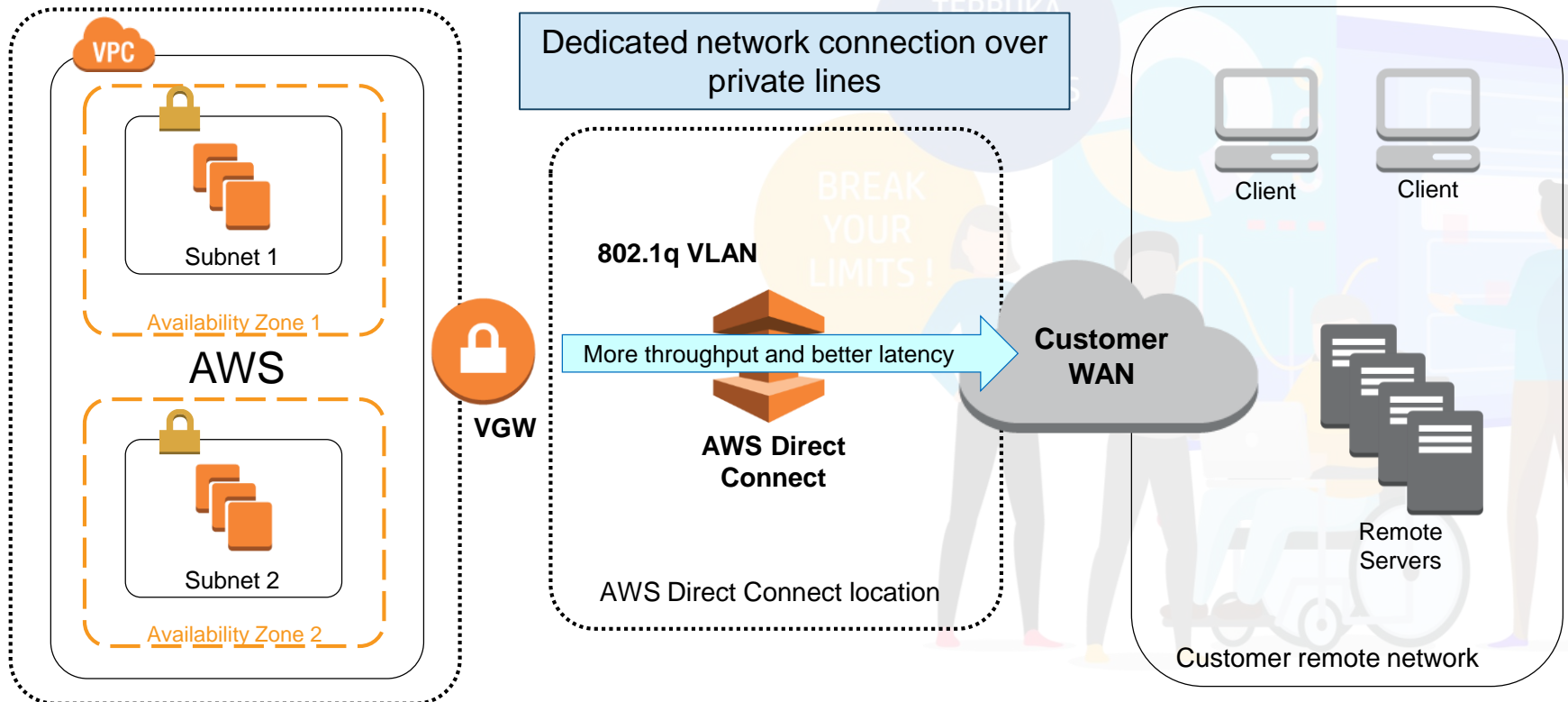
Benefits:

- Reduced network transfer costs

- Improved application performance with predictable metrics

- Transferring large data sets

- Security and compliance

- Hybrid cloud architectures

- Private data center expansion

- Alternative to Internet-based IPSec VPN connections (IPSec VPN connections can be used as a failover)

Extending On-Premises Network to AWS: AWS Direct Connect

Dedicated network connection over private lines

VPC

Subnet 1

Availability Zone 1

AWS

Subnet 2

Availability Zone 2

VGW

802.1q VLAN

More throughput and better latency

AWS Direct Connect

AWS Direct Connect location

Customer WAN

Client

Client

Remote Servers

Customer remote network

Data collection and movement challenges

	Time to transfer		
	@100Mbps	@1Gbps	@10Gbps
10 TB	12 days	30 hours	3 hours
100 TB	124 days	12 days	30 hours
1 PB	3 years	124 days	12 days

Limited online data transfer options due to:

- Connectivity limitations
- Bandwidth constraints
- High network connection costs
- Legacy environments
- Data properties and usage patterns
- Data collected in remote / austere locations

AWS Snow Family for data collection & data movement

	Snowcone	Snowball Edge Storage Optimized	Snowmobile
Migration size	Up to 24 TB, online and offline	Up to petabytes, offline	Up to exabytes offline
Form factor	Rugged 8.5 G impact cases that are rain and dust resistant, E Ink label for shipping automation		45-foot container, scheduled delivery
Security	256-bit encryption, tamper detection		Encryption, security staff, GPS tracking, video surveillance, alarms
Storage capacity	8 TB usable	80 TB usable	<100 PB
DataSync agent	Pre-installed	-	-
Compute	2 vCPU, 4 GB RAM usable	40 vCPU, 80 GB RAM, 1 TB SSD usable	-
Onboard computing options	AWS IoT Greengrass functions Amazon EC2 AMIs		
Wireless	Wi-Fi	-	-
Portable or Mobile use	Battery based operation	-	-
Clustering	-	Up to 15 nodes	-

Visit the AWS Snow Family page for a more detailed comparison »

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