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### Building ACI Hybrid Multi-Cloud from scratch with Demo (On-premises ACI – AWS – Azure)

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## Agenda



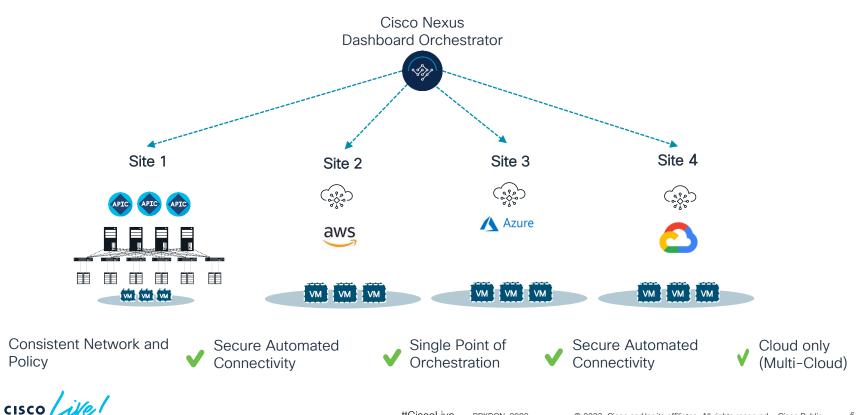
- Prerequisites
- Deploy Cloud Controller AWS, Azure
- First Time Setup Cloud Controllers (AWS, Azure)
- Inter-Site Connectivity
- Logical Tenant and Workload creation



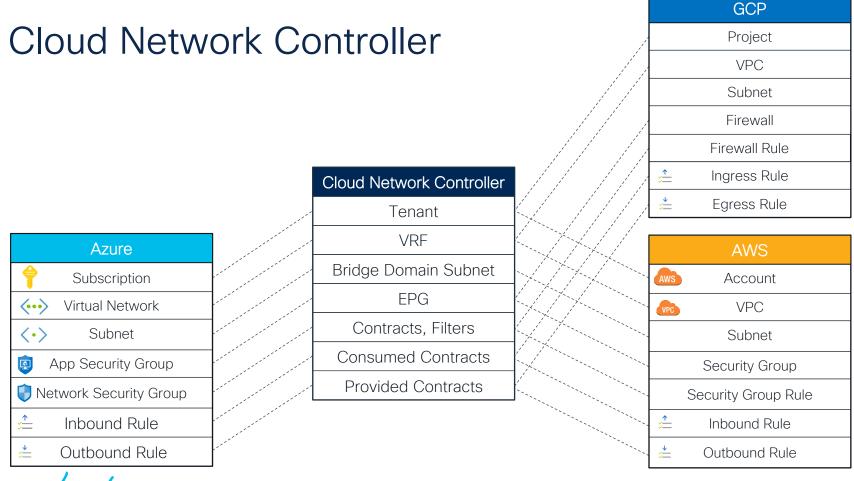
## Introduction



## Hybrid Multi-Cloud solution overview

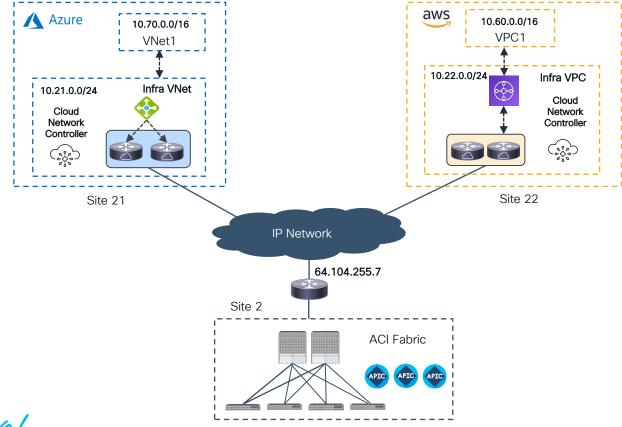


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#### What we will build today





# Prerequisites



## Prerequisites

Before starting, you should have:

- On-premises ACI fabric up and running
- At least 1 on-premises IPsec device
- Nexus Dashboard and NDO up and running
- At least 2 AWS accounts
- At least 1 Azure subscription
- At least 9 public IP addresses on each Public Cloud

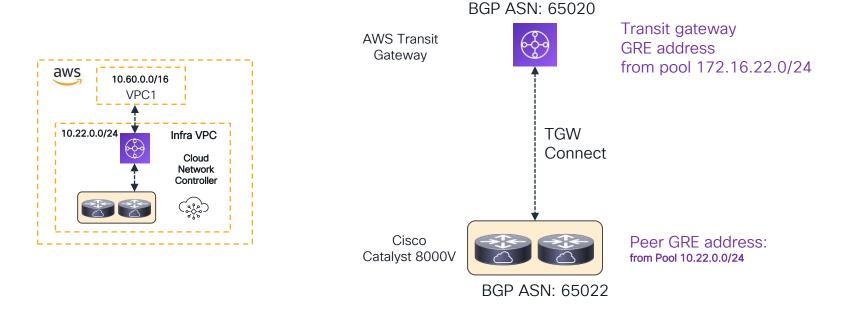
## Deploy Cloud Controller AWS

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## First Time Setup Cloud Controller AWS

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## Cloud Controller AWS



Hub network is a collection of Transit Gateways that reside in different AWS region.

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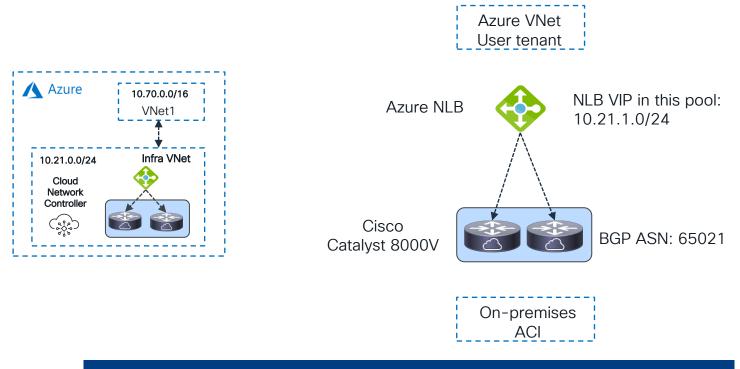
# Deploy Cloud Controller Azure

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## First Time Setup Cloud Controller Azure

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## **Cloud Controller Azure**



Hub network is Infra VNet that can be logically expanded across regions.

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# Inter-Site Connectivity

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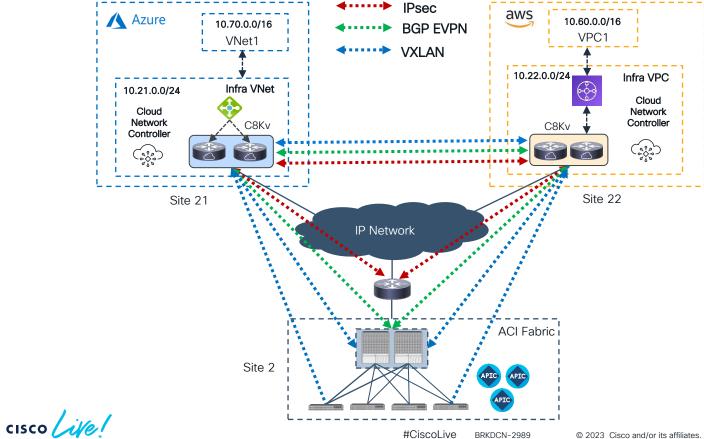
## Sites Information

	On-premises ACI	Azure	AWS
Site Name	ACI	AZURE	AWS
Site ID	2	21	22
BGP ASN	65002 (Fabric)	65021 (C8KV)	65022 (C8KV) 65020 (TGW)
Infra Pool	10.2.0.0/16	10.21.0.0/24 10.21.1.0/24 (for NLB VIP)	10.22.0.0/24 172.16.22.0/24 (TGW Connect)
VM/Instance Name		cnc-azure	cnc-aws

IPsec tunnel pool: 100.64.0.0/22 (configured on NDO) Azure C8KV subscription: Cisco Catalyst 8000V Edge Software-BYOL-17.07.01a

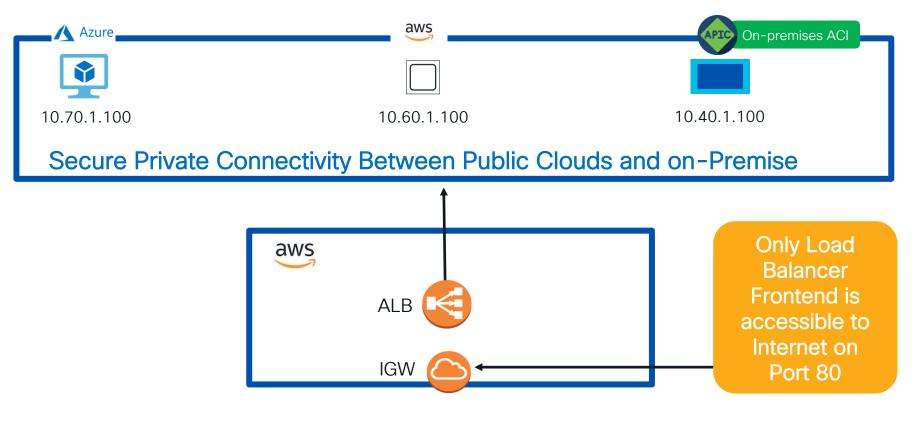
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#### Inter-Site Connectivity

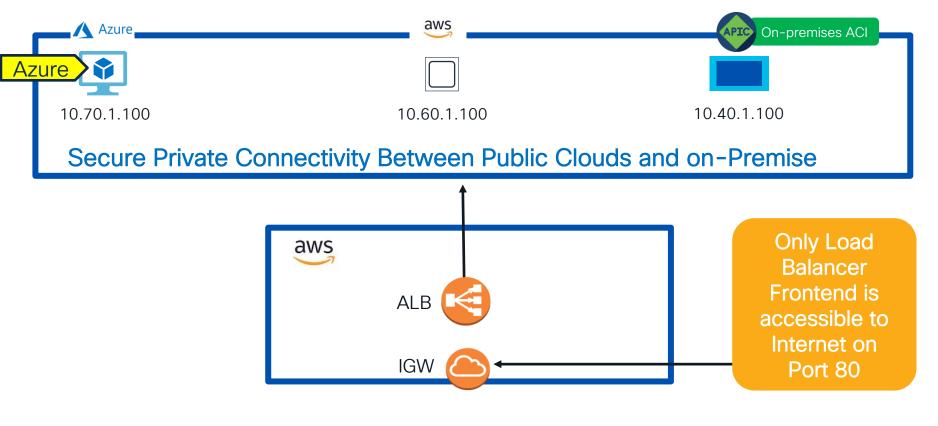


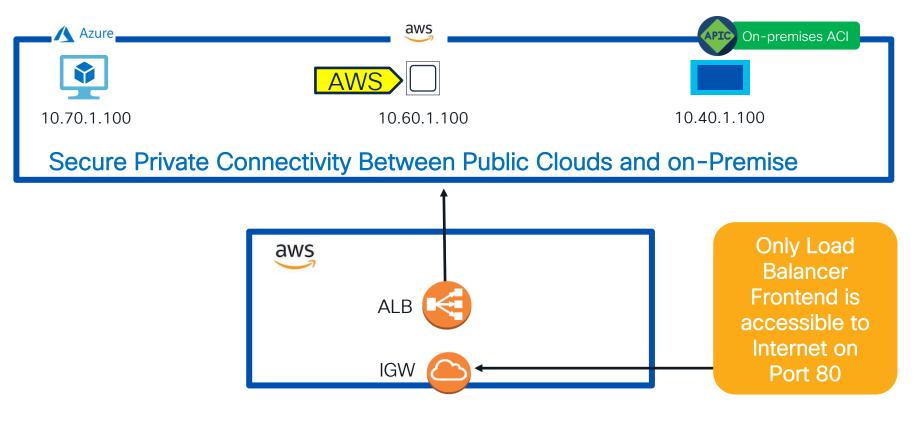
## Logical Tenant and Workload creation



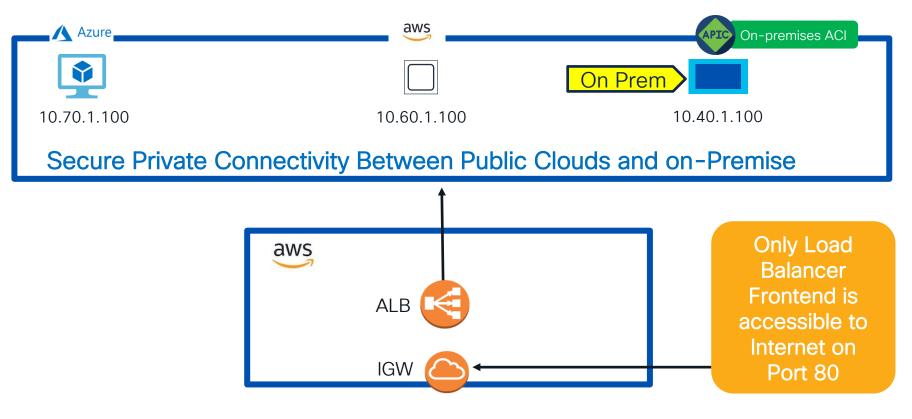




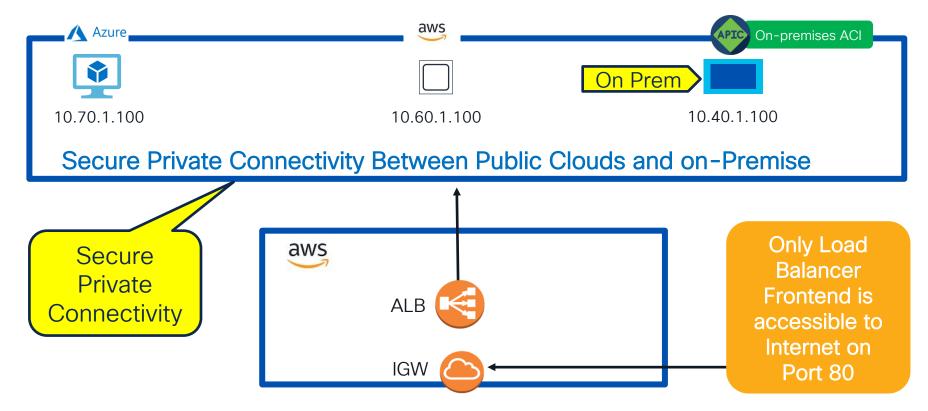




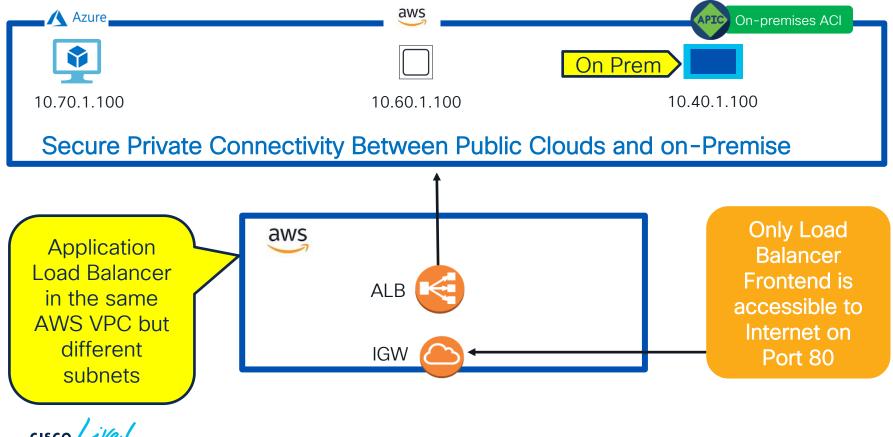


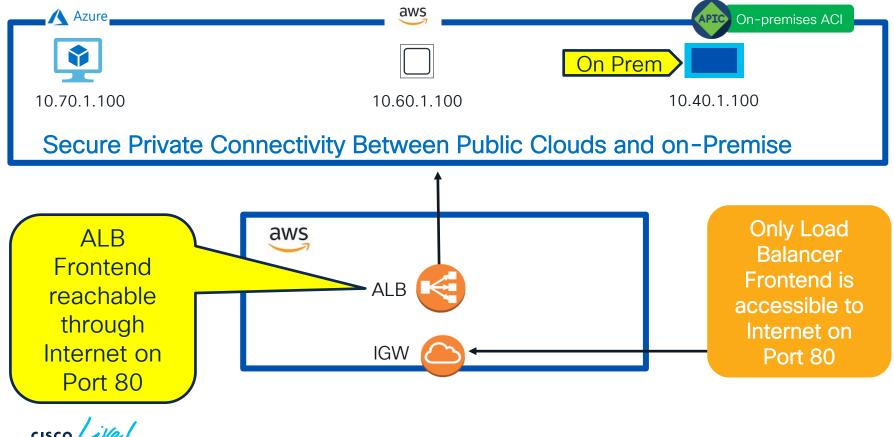


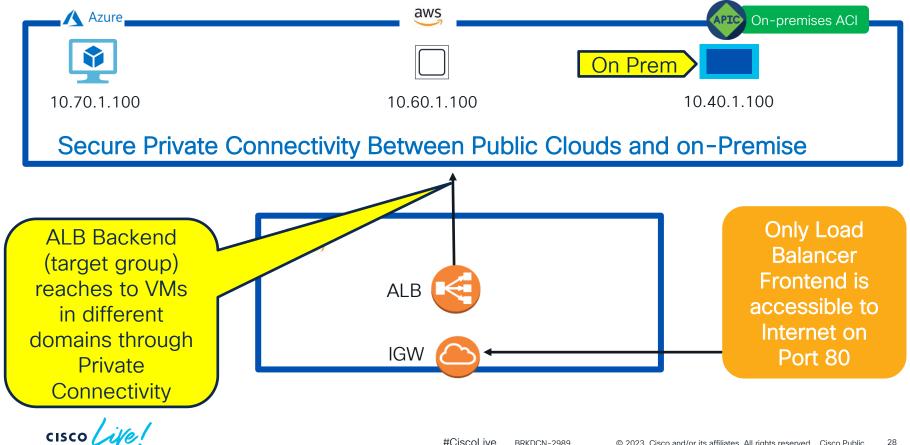


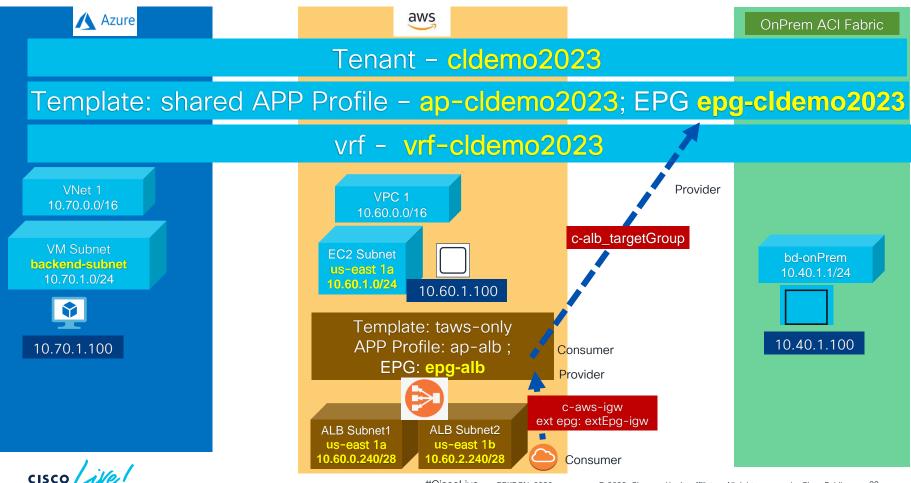




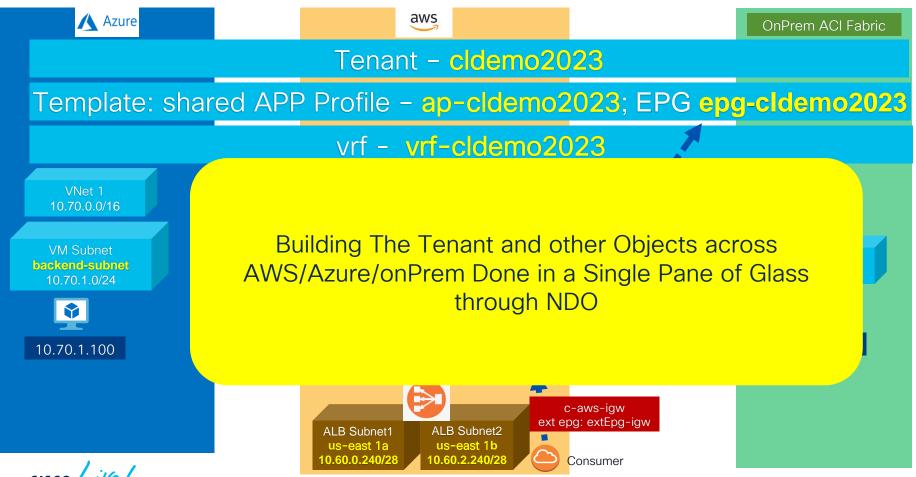


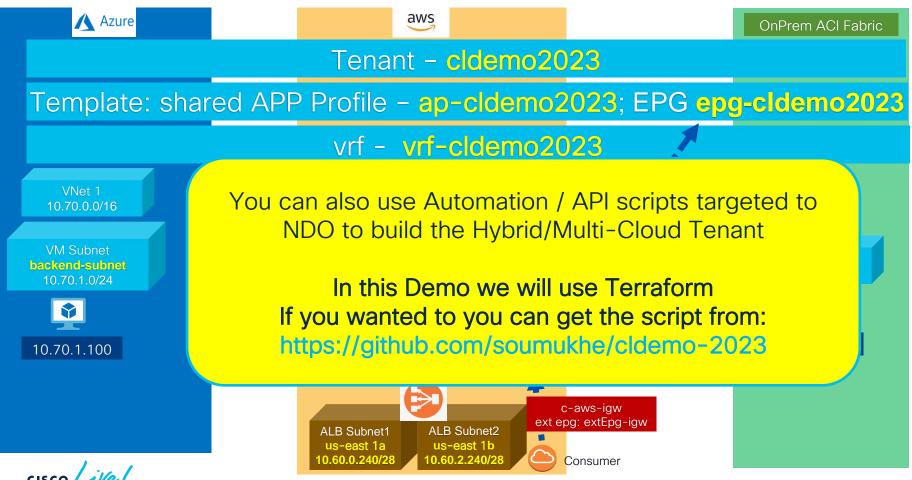




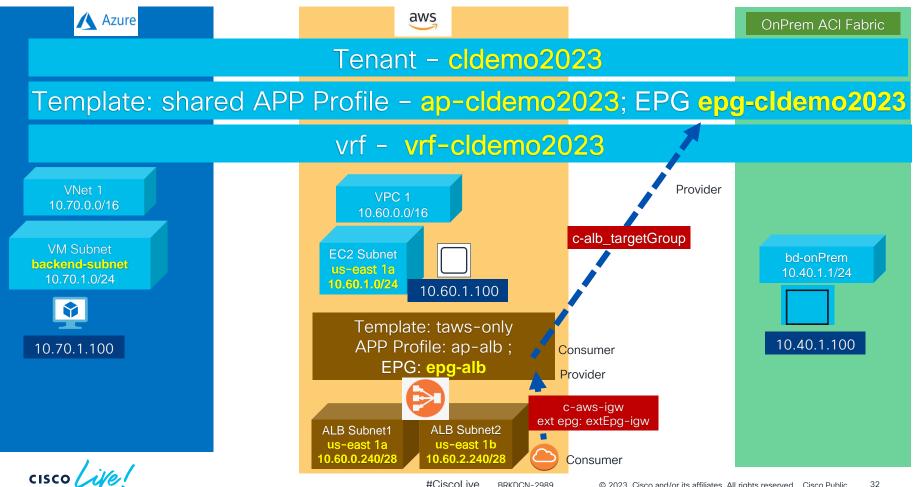


29





31



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