

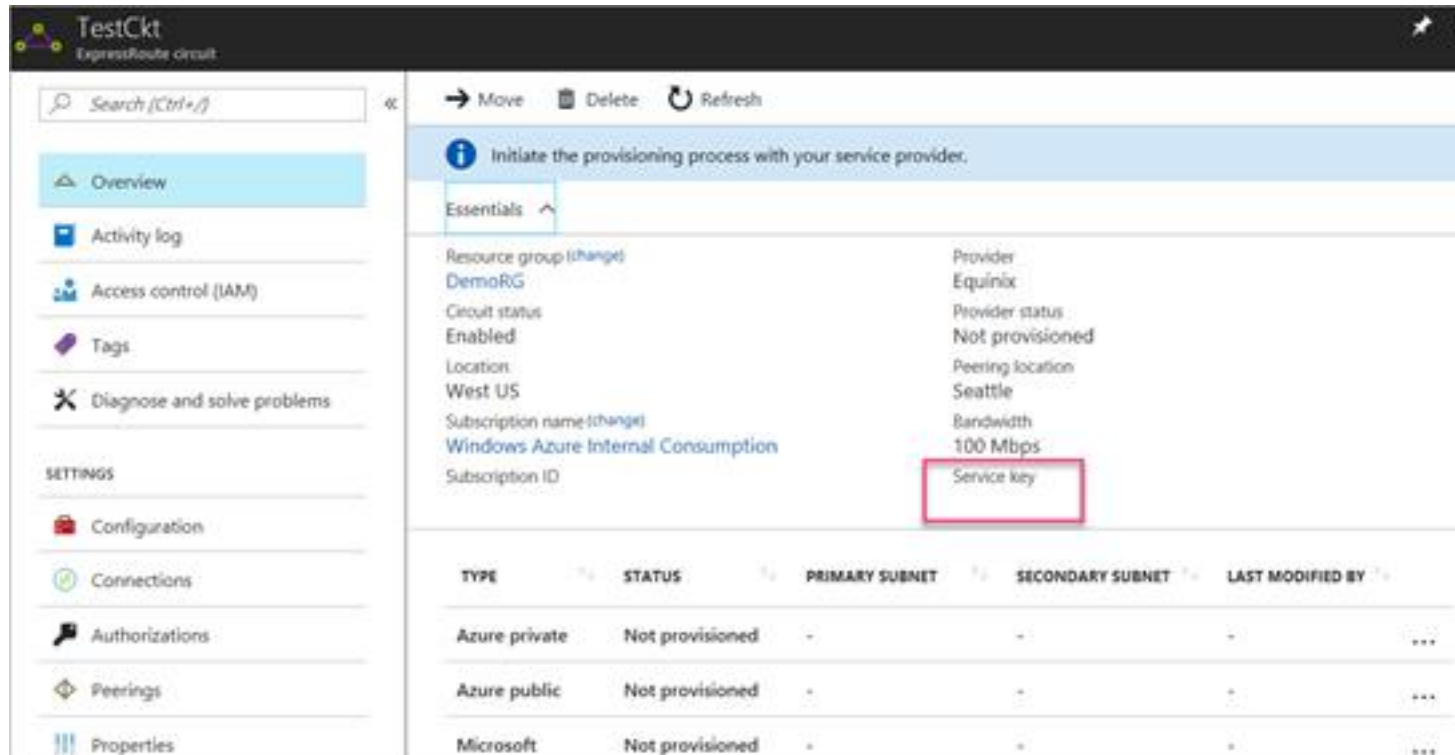
Express route steps

Express route steps – Connectivity provider

- Identify the connectivity provider and establish the relationship
- Physical connectivity with connectivity provider setup

Express route steps - 1 - Creation of circuit

An ExpressRoute circuit represents a logical connection between your on-premises infrastructure and Microsoft cloud services through a connectivity provider. You can order multiple ExpressRoute circuits. Each circuit can be in the same or different regions, and can be connected to your premises through different connectivity providers.



The screenshot displays the Azure portal interface for an ExpressRoute circuit named 'TestCkt'. The left sidebar contains navigation options: Overview (selected), Activity log, Access control (IAM), Tags, Diagnose and solve problems, SETTINGS, Configuration, Connections, Authorizations, Peerings, and Properties. The main content area shows the circuit's configuration details. At the top, there are buttons for Move, Delete, and Refresh, followed by an information icon and the instruction 'Initiate the provisioning process with your service provider.' Below this is an 'Essentials' section with a list of properties:

Property	Value
Resource group (change)	DemoRG
Circuit status	Enabled
Location	West US
Subscription name (change)	Windows Azure Internal Consumption
Subscription ID	
Provider	Equinix
Provider status	Not provisioned
Peering location	Seattle
Bandwidth	100 Mbps
Service key	

The 'Service key' field is highlighted with a red rectangle. Below the Essentials section is a table listing the peering connections:

TYPE	STATUS	PRIMARY SUBNET	SECONDARY SUBNET	LAST MODIFIED BY
Azure private	Not provisioned	-	-	-
Azure public	Not provisioned	-	-	-
Microsoft	Not provisioned	-	-	-

Express route steps - 1 - Creation of circuit

Make sure the circuit is provisioned

ER-Demo-Ckt-SV
ExpressRoute circuit

Settings Delete

Essentials ^

Resource group	USWest-ER-Demo-RG	Provider	Equinix
Circuit status	Enabled	Provider status	Provisioned
Location	West US	Peering location	Silicon Valley
Subscription name	ExpressRoute-Demo	Bandwidth	200 Mbps
Subscription ID	4bffb15-d414-4874-a2e4-c548c6d45e2a	Service key	44c13525-be71-47cd-a256-4445938cc1f4

[All settings →](#)

Peerings [Add tiles +](#)

TYPE	STATUS	PRIMARY SUBNET	SECONDARY SUBNET	
Azure private	Disabled	-	-	...
Azure public	Disabled	-	-	...
Microsoft	Disabled	-	-	...

[Add a section +](#)

Express route steps - 2 - Create peering for circuit

Select the peering you are trying to establish

The screenshot displays the Azure portal interface for an ExpressRoute circuit named 'ER-Demo-Ckt-SV'. The 'Peering' tab is active, showing a table of available peering options. The 'Azure private' peering option is highlighted with a red box, indicating it is the selected option for creation.

Essentials

- Resource group: [USWest-ER-Demo-RG](#)
- Circuit status: Enabled
- Location: West US
- Subscription name: [ExpressRoute-Demo](#)
- Subscription ID: 4bfb15-d414-4874-a2e4-c548c6d45e2a
- Provider: Equinix
- Provider status: Provisioned
- Peering location: Silicon Valley
- Bandwidth: 200 Mbps
- Service key: 44c13525-be71-47cd-a256-4445938cc1f4

Peering Table

TYPE	STATUS	PRIMARY SUBNET	SECONDARY SUBNET	
Azure private	Disabled	-	-	...
Azure public	Disabled	-	-	...
Microsoft	Disabled	-	-	...

Peering Details

- TYPE: Azure private
- STATUS: Disabled
- PRIMARY SUBNET: -
- SECONDARY SUBNET: -

Express route steps - 2 - Create peering for circuit

Configure the peering you are trying to establish

Private peering
ER-Demo-Ckt-SV

Save Discard Delete

* Peer ASN ⓘ
394749 ✓

* Primary subnet ⓘ
172.16.0.0/30 ✓

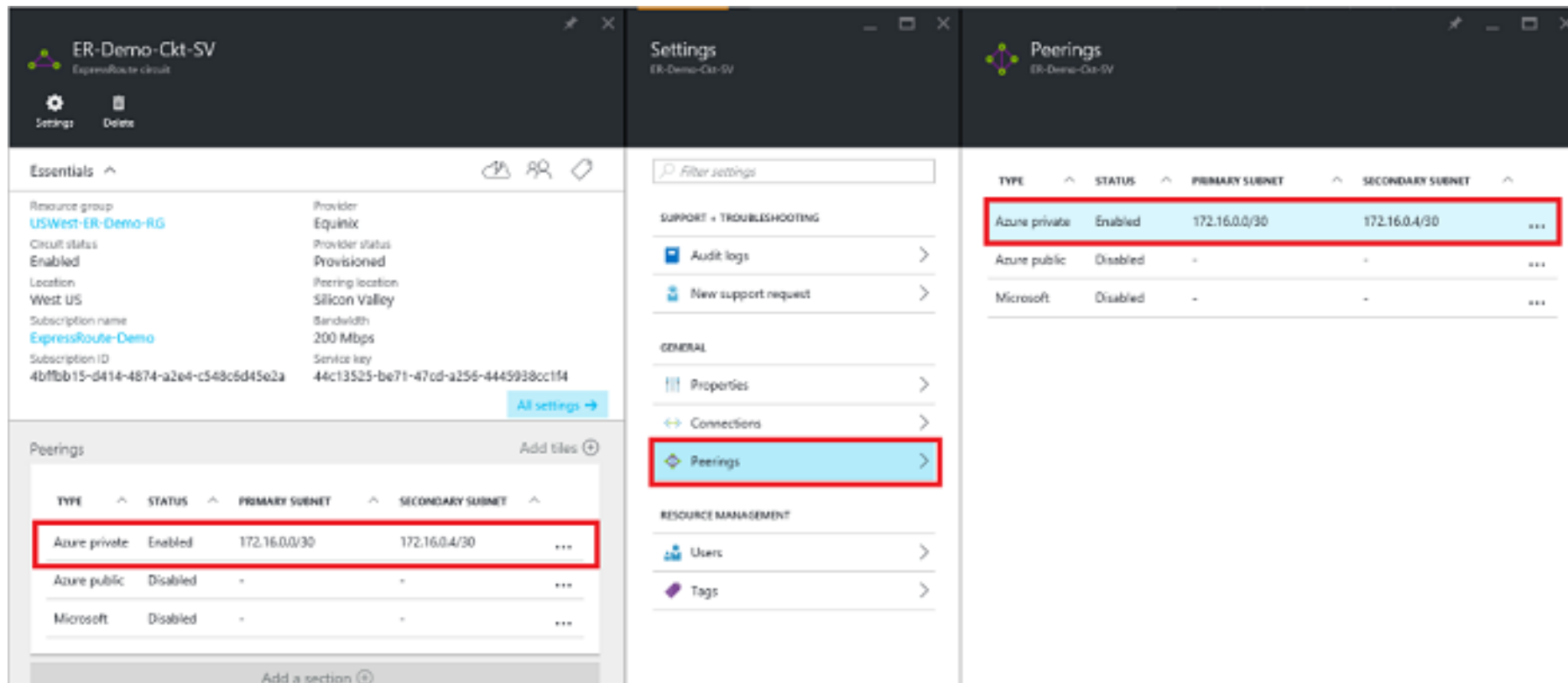
* Secondary subnet ⓘ
172.16.0.4/30 ✓

* VLAN ID ⓘ
154 ✓

Shared key

Express route steps - 2 - Create peering for circuit

3. Make sure peering is enabled



The screenshot displays the Azure portal interface for an ExpressRoute circuit named 'ER-Demo-Ckt-SV'. The 'Peering' tab is active, showing a table of configured peerings. The 'Azure private' peering is highlighted with a red box, indicating it is enabled. The 'Peering' link in the left-hand navigation pane is also highlighted with a red box.

Essentials

- Resource group: USWest-ER-Demo-RG
- Circuit status: Enabled
- Location: West US
- Subscription name: ExpressRoute-Demo
- Subscription ID: 4b7fbb15-d414-4874-a2e4-c548c6d45e2a
- Provider: Equinix
- Provider status: Provisioned
- Peering location: Silicon Valley
- Bandwidth: 200 Mbps
- Service key: 44c13525-be71-47cd-a256-4445938cc1f4

Peering

TYPE	STATUS	PRIMARY SUBNET	SECONDARY SUBNET	
Azure private	Enabled	172.16.0.0/30	172.16.0.4/30	...
Azure public	Disabled	-	-	...
Microsoft	Disabled	-	-	...

Peering

TYPE	STATUS	PRIMARY SUBNET	SECONDARY SUBNET	
Azure private	Enabled	172.16.0.0/30	172.16.0.4/30	...
Azure public	Disabled	-	-	...
Microsoft	Disabled	-	-	...

Express route steps - 3 - Connect VNet to circuit

The screenshot displays the Azure portal interface for configuring an ExpressRoute connection. It is divided into three main sections:

- Settings (ER-Demo-Ckt-SV):** Contains a sidebar with navigation options. Under 'SUPPORT + TROUBLESHOOTING', there are links for 'Audit logs' and 'New support request'. Under 'GENERAL', 'Properties' and 'Connections' are listed, with 'Connections' highlighted by a red box. Under 'RESOURCE MANAGEMENT', there are links for 'Users' and 'Tags'.
- Connections (ER-Demo-Ckt-SV):** Features a '+ Add' button highlighted by a red box. Below it is a search bar and a table with columns: NAME, STATUS, CONNECTION TYPE, and PEER. The table currently shows 'No results'.
- Add connection (ER-Demo-Ckt-SV):** A form highlighted by a red box for creating a new connection. The fields are:
 - Name:** A text input field containing 'ER-VNet-Connection'.
 - Connection type:** A dropdown menu set to 'ExpressRoute'.
 - Virtual network gateway:** A dropdown menu set to 'Demo-VNet-GW'.
 - ExpressRoute circuit:** A dropdown menu set to 'ER-Demo-Ckt-SV'.
 - Subscription:** A dropdown menu set to 'ExpressRoute-Demo'.
 - Resource group:** A dropdown menu set to 'USWest-ER-Demo-RG'.
 - Location:** A dropdown menu set to 'West US'.