

CenturyLink IQ+ Cloud Port to AWS Direct Connect

Direct, Secure, and Private Connections to AWS Cloud

Roles and Responsibilities

Roles and Responsibilities			
STEPS REQUIRED TO SET UP AWS DIRECT CONNECT CONNECTIVITY	END CUSTOMER	CENTURYLINK	AWS
SET UP PHYSICAL CONNECTIVITY TO AWS DIRECT CONNECT LOCATION			
Order Layer 3 connection to AWS Direct Connect location	X		
Provision Layer 3 device with BGP		X	
Decide on the type of BGP peering required (public or private)	X		
ORDER VIRTUAL CIRCUITS(S) ON EQUINIX CLOUD EXCHANGE TOWARDS AWS CLOUD EXCHANGE			
Create Virtual Circuit to AWS		X	
Monitor Virtual Circuit to AWS		X	
SET UP BGP PEERING BETWEEN CENTURYLINK PROVIDED CUSTOMER EDGE AND AWS EDGE DEVICE			
Configure BGP Peering on Customer Edge		X	
Configure BGP Peering on AWS side via Portal	X		
LINK SERVICES ON AWS TO THE DEDICATED CIRCUIT			
Accept Hosted Connection via AWS Portal	X		
Create & link Virtual Interface	X		
Create & attach Virtual Private Gateway to VPC	X		

Purpose

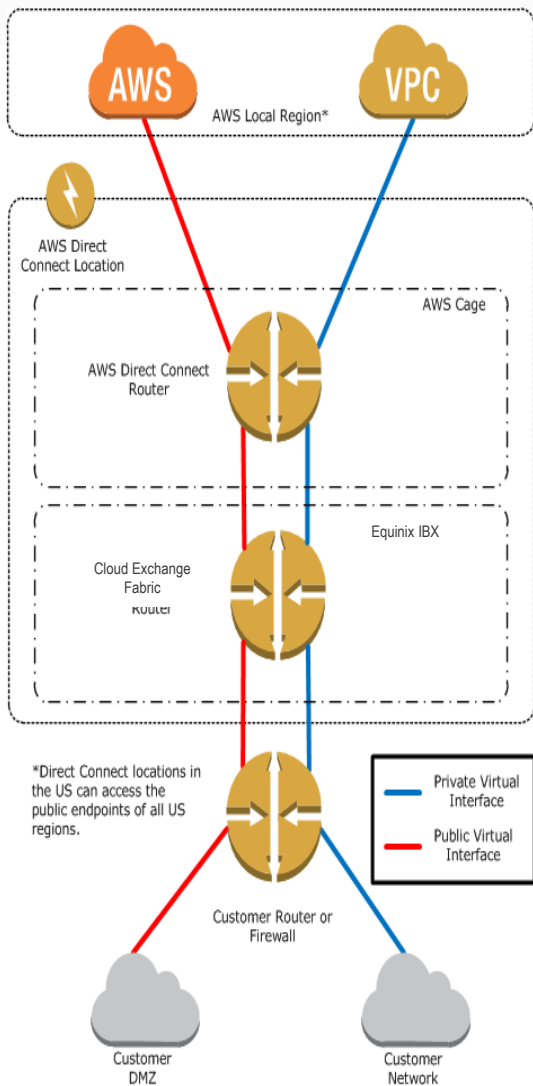
The purpose of this document is to provide an end-to-end walk through for a customer setting up an AWS Direct Connect for the first time for use with CenturyLink's IQ+ Cloud Port service.

Please note, information contained in this document should serve as a supplement to AWS documentation linked throughout this document. Users should check the provided links to obtain the most up-to-date information.

- Please work with your account teams for questions not answered in this document or associated links:
 - For Amazon AWS, please contact your AWS account representative
 - For CenturyLink IQ+ Cloud Port, please contact your CenturyLink account representative

Background Information

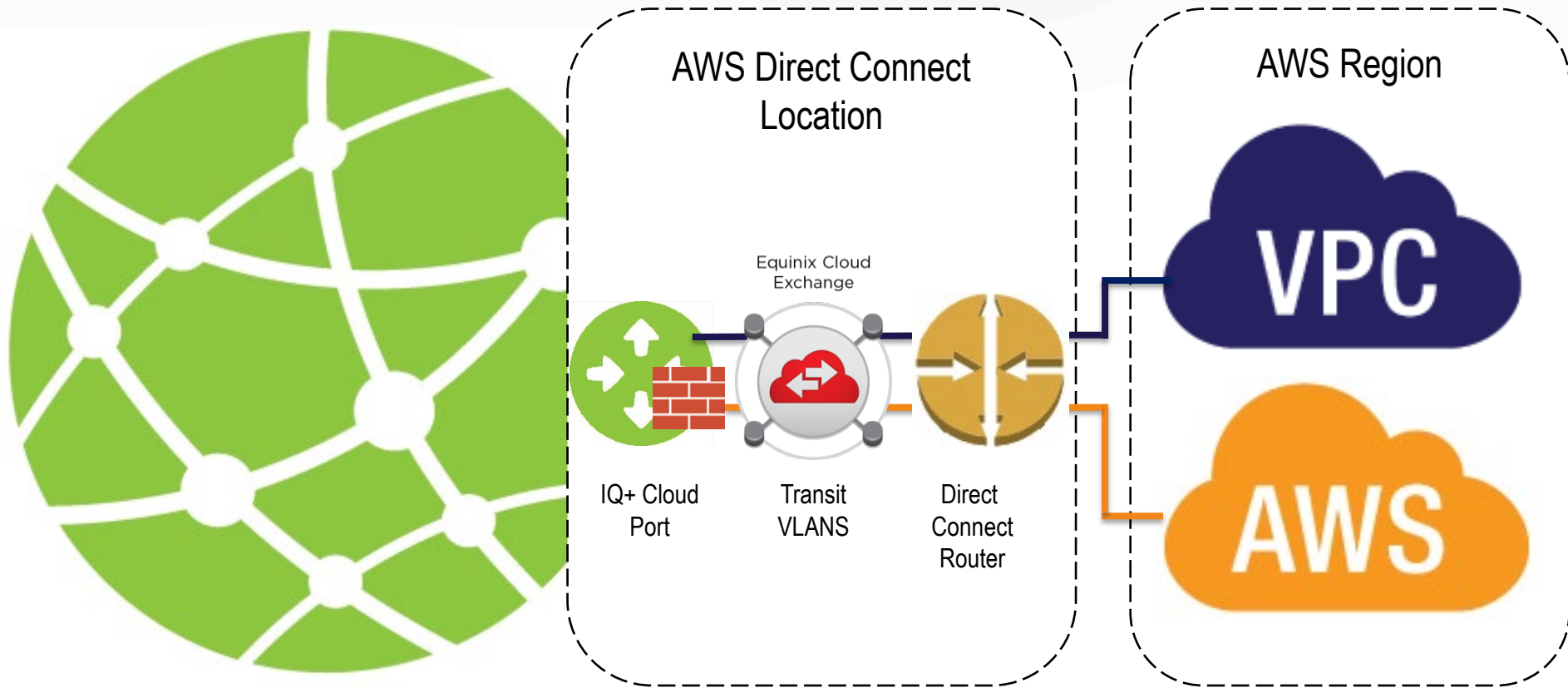
What is AWS Direct Connect (<http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html>)



AWS Direct Connect links your internal network to an AWS Direct Connect location. One end of the connection is connected to your network, the other to an AWS Direct Connect router. With this connection in place, you can create virtual interfaces directly to the AWS cloud services, bypassing the public Internet. An AWS Direct Connect location provides access to Amazon Web Services in the region it is associated with, as well as access to other US regions. For example, you can provision a single connection to any AWS Direct Connect location in the US and use it to access public AWS services in all US Regions.

CenturyLink Supported AWS Regions and Interconnect Points	
AWS Direct Connect Location	AWS Region
Equinix DA1, DA2, DC6 & DC10	US East (Virginia)
Equinix CH1, CH2 & CH4	US East Ohio (Chicago)
Equinix SV1 & SV5	US West (Northern California)

IQ+ Cloud Port for Amazon Direct Connect



Private Peering ———

Public Peering ———



CenturyLink[®]
Business

High Level Step Review

1. **Capture your AWS account information**
2. **Customer requests CenturyLink IQ+ Cloud Port**
3. **CenturyLink provisions IQ+ Cloud Port**
 - (Optional) Create Redundant Direct Connect Connection
4. **CenturyLink requests Virtual Circuit over the Cloud Exchange**
5. **Accept the Direct Connect Hosted Connection**
6. **Configure the AWS BGP Peering to either VPC or AWS Public**

Capture your AWS account information

<http://docs.aws.amazon.com/IAM/latest/UserGuide/AccountAlias.html>

- **Finding Your AWS Account ID**

- To find your AWS account ID number in the AWS Management Console, click on Support in the navigation bar in the upper right, and then click Support Center. Your currently signed in account ID appears below the Support menu.

The screenshot shows the top navigation bar of the AWS Management Console. It includes a 'Sign Up' button, 'My Account / Console' dropdown, and 'English' dropdown. Below this is a search bar with 'AWS Product Information' and a search icon, and 'Developers' and 'Support' dropdowns. In the top right corner, it says 'Welcome Example Account | Sign Out' and 'Account Number 1111-2222-3333'. A red arrow points from the 'Account Number' text to the 'Support' dropdown menu. Below the navigation bar is the 'Manage Your Account' section, which includes a 'Services You're Signed Up For' table.

Services You're Signed Up For	
Amazon CloudFormation	Amazon Simple Storage Service (S3)
Amazon CloudFront	Amazon Simple Workflow Service (SWF)
Amazon CloudSearch	Amazon SimpleDB
Amazon CloudWatch	Amazon Virtual Private Cloud (VPC)

Customer Requests CenturyLink IQ+ Cloud Port

- **To order a CenturyLink IQ+ Cloud Port, contact your CenturyLink Account Representative**
 - Contact your CenturyLink account rep to assist in ordering an IQ+ Cloud Port
 - Cloud Service Provider (CSP) Information needed by CenturyLink to complete connection
 - AWS Account ID
 - AWS service(s) they you connecting to
 - Public
 - Virtual Private Cloud (VPC)
 - Note: Maximum connection size per VPC is 500megs
 - Each VPC requires a separate VLAN from IQ+ Cloud Port
 - Tell your account team how many VPC's you are connecting to
 - Determine the connection size needed to each VPC
 - Note: AWS limits connections of 500Mbps or less per VPC

CenturyLink Provisions Cloud Port to AWS

- **Upon network order submission, CenturyLink will provision a Layer 3 VPN connection to the requested interconnect point**
 - Turn up of Layer 3 VPN service to local AWS interconnect point
 - Layer 3 will be configured on CTL side; Customer will complete Layer 3 turn up on AWS side in later step
 - Extension of Layer 2 VLAN(s) between CenturyLink and AWS
- **CenturyLink completes configuration, and provides Customer with necessary information required to complete Layer 3 turn up on AWS side per environment**
 - Appropriate IP subnet(s)
 - Autonomous System Number (ASN) Info
 - AS Number
 - BGP Authorization Key
 - VLAN ID

Customer Steps – Accepting & Configuring AWS Environment

NOTE: To simplify and speed up activation of service with CenturyLink (Activation Call), the following steps should be taken prior to using your CenturyLink Reservation to activate the connection. Full provisioning steps within the AWS environment can take up to 1 hour to complete.

Accept the Direct Connect Hosted Connection

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

1. Open the AWS Direct Connect console at <https://console.aws.amazon.com/directconnect/>
2. If necessary, change the region. From the navigation bar, select the region that meets your needs
3. In the navigation pane, click Connections
4. In the Connections pane, select a connection, and then click the arrow to expand details about the connection

The screenshot shows the AWS Direct Connect console interface. At the top, there are buttons for 'Create Connection', 'Create Virtual Interface', and 'Delete Connection'. Below this is a search bar and a 'Viewing 3 of 3 Connections' indicator. A table lists three connections:

Provided By	Name	Location	Bandwidth	# VIs	State
Amazon Web Services	Far East Offices	Equinix SG2, Singapore	1Gbps	0	down
Amazon Web Services	Tokyo Office	Equinix SG2, Singapore	1Gbps	2	down
AnyCompany Hosting	Demo Hosted Connection	Equinix SG2, Singapore	50Mbps	0	pending acceptance

The 'Demo Hosted Connection' is selected, and its details are expanded below:

- Connection Name:** Demo Hosted Connection
- Connection ID:** dxcon-fh8ajycc
- Type:** Hosted Connection
- Port Speed:** 50Mbps
- Location:** Equinix SG2, Singapore
- VLAN Assigned:** 100
- Provided By:** AnyCompany Hosting
- Virtual Interfaces:** 0
- State:** pending acceptance

Below the details, there is a warning message: "Before this connection can be active and used, you must accept it. If you accept, connectivity between your data center and AWS will be provided by partner." A checkbox is checked with the text "I understand that Direct Connect port charges apply once I click 'Accept Connection'". At the bottom, there are buttons for 'Accept Connection' and 'Decline Connection'. Red arrows point to the 'Accept Connection' button and the checkbox.

The screenshot shows the region selection dropdown menu in the AWS Direct Connect console. The current region is 'N. Virginia'. The dropdown menu is open, showing a list of regions:

- US East (N. Virginia)
- US West (Oregon)
- US West (N. California)
- EU (Ireland)
- EU (Frankfurt)
- Asia Pacific (Singapore)
- Asia Pacific (Tokyo)
- Asia Pacific (Sydney)
- South America (São Paulo)

A red arrow points from the second step of the instructions to this dropdown menu.

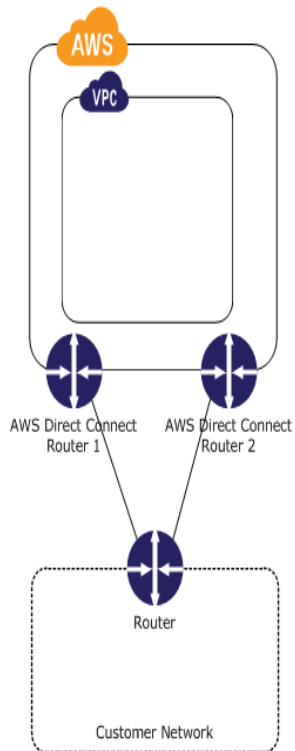
Upon accepting the Hosted Connection, "the State field will cycle from "pending acceptance", to "pending", to "down" and finally to "available"it can take up to 20 minutes for service to fully activate

5. Select I understand that Direct Connect port charges apply once I click "Accept This Connection", and then click Accept Connection

(Optional) Create Redundant Direct Connect Connection

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

To configure redundancy, a second Direct Connect link must be created by repeating the same steps from above.



There are different configuration choices available when you provision two dedicated connections:

Active/Active (BGP multipath). Network traffic is load balanced across both connections. If one connection becomes unavailable, all traffic is routed through the other. This is the default configuration.

Active/Passive (failover). One connection is handling traffic, and the other is on standby. If the active connection becomes unavailable, all traffic is routed through the passive connection.

How you configure the connections doesn't affect redundancy, but it does affect the policies that determine how your data is routed over both connections. We recommend that you configure both connections as Active/Active. AWS will treat return traffic on those links as Active/Active.

Customer Steps - Configuring to AWS VPC Environment

NOTE: To simplify and speed up activation of service with CenturyLink (Activation Call), the following steps should be taken prior to using your CenturyLink Reservation to activate the connection. Full provisioning steps within the AWS environment can take up to 1 hour to complete.

Create a Virtual Private Gateway (VPG)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

- Under VPC Dashboard \ VPN Connections, select “Create Virtual Private Gateway”

The screenshot shows the AWS Management Console interface. The left sidebar contains a navigation menu with categories like VPC Dashboard, Virtual Private Cloud, Security, and VPN Connections. The 'VPN Connections' section is expanded, showing 'Virtual Private Gateways' selected. A modal dialog box titled 'Create Virtual Private Gateway' is open in the center. The dialog contains the text: 'A virtual private gateway is the router on the Amazon side of the VPN tunnel.' Below this text is a 'Name tag' input field. At the bottom of the dialog are 'Cancel' and 'Yes, Create' buttons. Five red callout boxes with white text provide numbered instructions: 1. VPC Dashboard (pointing to the left sidebar), 2. Virtual Private Gateways (pointing to the selected menu item), 3. Select Create Virtual Private Gateway (pointing to the 'Create Virtual Private Gateway' button), 4. Enter user-defined name for VPG (pointing to the 'Name tag' input field), and 5. Press 'Yes, Create' (pointing to the 'Yes, Create' button).

Configure the AWS-Side BGP Peering for VPC Connectivity (1 of 4)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

1. Before you begin, the following parameters are required:

- CenturyLink Provided
 - A new, unused VLAN tag that you select
 - Provided by CenturyLink
 - A public or private BGP ASN. If you are using a public ASN, you must own it. If you are using a private ASN, it must be in the 65000 range
 - Private provided by CenturyLink
 - Public provided by Customer
 - BGP MD5 Hash Key for authentication
 - Provided by CenturyLink
- AWS Environment pre-requisite
 - A VPC environment created to attach to the Direct Connect
 - A Virtual Private Gateway to connect between the VPC and the Virtual Interface
 - See previous page

Create the Virtual Interface: AWS-Side BGP Peering for VPC Connectivity (2 of 4)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

- Open the AWS Direct Connect console at <https://console.aws.amazon.com/directconnect/>
- In the Connections pane, select the connection to use, and then click Create Virtual Interface
- Fill in appropriate information provided by CenturyLink (see below)

Connections
Virtual Interfaces

Create a Virtual Interface

You may choose to create a private or public virtual interface. Select the appropriate option below.

Private - A private virtual interface should be used to access an Amazon VPC using private IP addresses.

Public - A public virtual interface can access all AWS public services (including EC2, S3, and DynamoDB) using public IP addresses.

Define Your New Private Virtual Interface

Enter the name of your virtual interface. If you're creating a virtual interface for another account, you'll need to provide the other AWS account ID. For more information about virtual interface ownership, see 'Hosted Virtual Interfaces' in the [AWS Direct Connect User Guide](#).

Connection: dxcon-fg0kbv50 (PSB-DEFAU-22423-Pri) ⓘ

Virtual Interface Name: ⓘ **2. User defined interface name**

Virtual Interface Owner: My AWS Account Another AWS Account

VGW: vgw-562d7113 ⓘ **3. Select appropriate Virtual Gateway (created in previous steps)**

Enter the VLAN ID, if not already supplied by your AWS Direct Connect partner, and the IP Addresses for your router interface and the AWS Direct Connect interface.

4. Uncheck **VLAN:** ⓘ **VLAN number pre-populated**

Auto-generate peer IPs: ⓘ

Your router peer IP: ⓘ **5. CenturyLink side IP**

Amazon router peer IP: ⓘ **6. AWS side IP**

Before you can use your virtual interface, we must establish a BGP session. You must provide an ASN for your router. You will also need an MD5 key to authenticate the BGP session. We can generate one for you, or you can supply your own.

7. Uncheck **Auto-generate BGP key:** ⓘ

BGP ASN: ⓘ **8. ASN Provided by CenturyLink**

BGP Authentication Key: ⓘ **9. BGP MD5 Hash Key Provided by CenturyLink**

Configure the Virtual Interface: AWS-Side BGP Peering for VPC Connectivity (3 of 4)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

- When creating a new Virtual Interface for Private (VPC)
- Under Define Your New Private Virtual Interface, do the following:
 1. Select Private for VPC Connections
 2. In the Interface Name field, enter a name for the virtual interface
- In Interface Owner, select the My AWS Account option if the virtual interface is for your AWS account ID
 3. In the VGW list, select the virtual gateway to connect to
- The VLAN # field will already be filled in and grayed out
 4. To specify the CenturyLink provided IP addresses yourself, clear the Auto-generate peer IPs check box
 5. In the 'Your Router Peer IP' field, enter the CenturyLink side IP address that Amazon will send traffic to.
 6. In the 'Amazon Router Peer IP' field, enter the AWS side IP address you will use to send traffic to AWS
 7. To enter the CenturyLink-provided BGP key, clear the Auto-generate BGP key check box
 8. In the BGP Authorization Key field, enter the BGP MD5 key provided by CenturyLink
 9. In the BGP ASN field, enter the CenturyLink provided Border Gateway Protocol (BGP) Autonomous System Number (ASN) of your gateway; for example, a number between 1 and 65534

Create a Virtual Interface

You may choose to create a private or public virtual interface. Select the appropriate option below.

- Private - A private virtual interface should be used to access an Amazon VPC using private IP addresses.
- Public - A public virtual interface can access all AWS public services (including EC2, S3, and DynamoDB) using public IP addresses.

Define Your New Private Virtual Interface

Enter the name of your virtual interface. If you're creating a virtual interface for another account, you'll need to provide the other AWS account ID. For more information about virtual interface ownership, see 'Hosted Virtual Interfaces' in the [AWS Direct Connect Getting Started Guide](#).

Connection: ⓘ

Virtual Interface Name: ⓘ

Virtual Interface Owner: My AWS Account Another AWS Account ⓘ

VGW: ⓘ

Enter the VLAN ID, if not already supplied by your AWS Direct Connect partner, and the IP Addresses for your router interface and the AWS Direct Connect interface.

VLAN: ⓘ

Auto-generate peer IPs: ⓘ

Your router peer IP: ⓘ

Amazon router peer IP: ⓘ

Before you can use your virtual interface, we must establish a BGP session. You must provide an ASN for your router. You will also need an MD5 key to authenticate the BGP session. We can generate one for you, or you can supply your own.

BGP ASN: ⓘ

Auto-generate BGP key: ⓘ

BGP Authentication Key: ⓘ



Create the AWS-Side BGP Peering for VPC Connectivity (4 of 4)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

5. View the Router (BGP) Configuration

- In the Virtual Interfaces pane, select a virtual interface, click the arrow to show more details
- State will go from **pending**, to **down**, to **available** (this step can take up to 20 minutes to complete)

The screenshot displays the AWS Management Console interface for Direct Connect connections. The top navigation bar includes 'Services', 'Resource Groups', and user information for 'Matthew Holway' in 'N. California'. The main content area shows a list of connections with the following details:

Provided By	Name	Location	Bandwidth	# VIs	State
EQUINIX NNI	PSB-DEFAU-22423-Pri	Equinix SV1 & SV5, San Jose, CA	50Mbps	1	available

Below the table, a detailed view of the selected connection is shown:

- Connection Name:** PSB-DEFAU-22423-Pri
- Connection ID:** dxcon-fg0kbv50
- AWS Account:** [REDACTED]
- Location:** Equinix SV1 & SV5, San Jose, CA
- Provided By:** EQUINIX NNI
- Port Speed:** 50Mbps
- Type:** Hosted Connection
- VLAN Assigned:** 220
- State:** available
- Virtual Interfaces:** 1 [View Virtual Interfaces](#)

Buttons for 'Create Connection', 'Create Virtual Interface', and 'Delete Connection' are visible at the top of the console view.

Attach a Virtual Private Gateway (VPG) to VPC

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

- Under VPC Dashboard \ VPN Connections, select your Virtual Private Gateway

The screenshot shows the AWS VPC Dashboard interface. At the top, there are navigation tabs: 'Create Virtual Private Gateway' (highlighted in blue), 'Delete Virtual Private Gateway', 'Attach to VPC' (highlighted with a red circle), and 'Detach from VPC'. Below the tabs is a search bar and a table of Virtual Private Gateways. The table has columns for Name, ID, State, Type, and VPC. One gateway is listed: 'TEST VPG' with ID 'vgw-562d7113', state 'detached', and type 'ipsec.1'. A red callout bubble points to the 'Attach to VPC' button with the text '1. Select 'Attach to VPC''.

Name	ID	State	Type	VPC
TEST VPG	vgw-562d7113	detached	ipsec.1	

1. Select 'Attach to VPC'

The screenshot shows the 'Attach to VPC' dialog box. The dialog box has a title bar 'Attach to VPC' and a close button. Below the title bar, there is a text prompt: 'Select the VPC to attach to the virtual private gateway'. Below the prompt is a dropdown menu for VPC selection, with 'vpc-d25dd3b7' selected. A red callout bubble points to the dropdown with the text '1. Select the VPC'. Below the dropdown is a 'Cancel' button and a 'Yes, Attach' button. A second red callout bubble points to the 'Yes, Attach' button with the text '2. Press 'Yes, Attach''.

1. Select the VPC

2. Press 'Yes, Attach'

Note: It can take up to 20 minutes for VPG to show state of 'Attached' to the VPC

Customer Steps - Configuring to AWS Public Environment



Configure the AWS-Side BGP Peering for VPC Connectivity (1 of 3)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

1. Before you begin, the following parameters are required:

- CenturyLink Provided
 - A new, unused VLAN tag that you select
 - Provided by CenturyLink
 - A Public BGP ASN. The Public ASN can either be customer provided, or if one is not available, CenturyLink will utilize its own Public ASN for peering with AWS
 - Public owned provided by Customer
 - If no Public owned, then provided by CenturyLink
 - BGP MD5 Hash Key for authentication
 - Provided by CenturyLink
- AWS Environment pre-requisite
 - None

Create the Virtual Interface: AWS-Side BGP Peering for Public Connectivity (2 of 3)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

- Open the AWS Direct Connect console at <https://console.aws.amazon.com/directconnect/>
- In the Connections pane, select the connection to use, and then click Create Virtual Interface
- Fill in appropriate information provided by CenturyLink (see below)

Connections
Virtual Interfaces

Create a Virtual Interface

You may choose to create a private or public virtual interface. Select the appropriate option below.

Private - A private virtual interface should be used to access an Amazon VPC using private IP addresses.

Public - A public virtual interface can access all AWS public services (including EC2, S3, and DynamoDB) using public IP addresses.

1. Select Public

Define Your New Public Virtual Interface

This virtual interface will have access to AWS public services in all US regions. For more information, [see the user guide](#).

Enter the name of your virtual interface. If you're creating a virtual interface for another account, you'll need to provide the other AWS account ID. For more information about virtual interface ownership, see 'Hosted Virtual Interfaces' in the [AWS Direct Connect User Guide](#).

Connection: ⓘ

Virtual Interface Name: ⓘ **2. User defined interface name**

Virtual Interface Owner: My AWS Account Another AWS Account ⓘ

Enter the VLAN ID, if not already supplied by your AWS Direct Connect partner, and the IP Addresses for your virtual interface and the AWS Direct Connect interface.

VLAN: ⓘ **VLAN number pre-populated**

Your router peer IP: ⓘ **3. CenturyLink side IP**

Amazon router peer IP: ⓘ **4. AWS side IP**

Before you can use your virtual interface, we must establish a BGP session. You must provide an ASN for your router and the IP prefixes you would like to announce to AWS. You will also need an MD5 key to authenticate the BGP session. We can generate one for you, or you can provide your own.

BGP ASN: ⓘ **5. Public ASN Provided by Customer**

Auto-generate BGP key: ⓘ **6. Uncheck**

BGP Authentication Key: ⓘ **7. BGP MD5 Hash Key Provided by CenturyLink**

Prefixes you want to advertise: ⓘ **8. Nat Pool Prefixes provided by CenturyLink (typically the IP block from step 3/4 above)**

It may take up to 72 hours to verify that your IP prefixes are valid for use with Direct Connect.

Configure the Virtual Interface: AWS-Side BGP Peering for Public Connectivity (3 of 3)

http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html

- When creating a new Virtual Interface for AWS Public
- Under Define Your New Public Virtual Interface, do the following:
 1. Select Public for AWS Public Services
 2. In the Interface Name field, enter a name for the virtual interface
- In Interface Owner, select the My AWS Account option if the virtual interface is for your AWS account ID
- The VLAN # field will already be filled in and grayed out
 3. In the 'Your Router Peer IP' field, enter the CenturyLink side IP address that Amazon will send traffic to.
 4. In the 'Amazon Router Peer IP' field, enter the AWS side IP address you will use to send traffic to AWS
 5. In the BGP ASN field, enter either your Public ASN, or if unavailable, the CenturyLink provided Border Gateway Protocol (BGP) Autonomous System Number (ASN) of your gateway
 6. To enter the CenturyLink provided BGP key, clear the Auto-generate BGP key check box
 7. In the BGP Authorization Key field, enter the BGP MD5 key
 8. In the Prefixes You Want To Advertise field, enter the NAT pool IP's provided by CenturyLink (typically these will be the IP's used in the previous step in this process)

Create a Virtual Interface

You may choose to create a private or public virtual interface. Select the appropriate option below.

Private - A private virtual interface should be used to access an Amazon VPC using private IP addresses.

Public - A public virtual interface can access all AWS public services (including EC2, S3, and DynamoDB) using public IP addresses.

Define Your New Public Virtual Interface

Enter the name of your virtual interface. If you're creating a virtual interface for another account, you'll need to provide the other AWS account ID. For more information about virtual interface ownership, see "Hosted Virtual Interfaces" in the *AWS Direct Connect Getting Started Guide*.

Connection: ⓘ

Interface Name: ⓘ

Interface Owner: My AWS Account Another AWS Account ⓘ

Enter the VLAN ID, if not already supplied by your AWS Direct Connect partner, and the IP Addresses for your router interface and the AWS Direct Connect interface.

VLAN: ⓘ

Your router peer IP: ⓘ

Amazon router peer IP: ⓘ

Before you can use your virtual interface, we must establish a BGP session. You must provide an ASN for your router, and any prefixes you would like to announce to AWS. You will also need an MD5 key to authenticate the BGP session. We can generate one for you, or you can supply your own.

BGP ASN: ⓘ

Auto-generate BGP key: ⓘ

Prefixes you want to advertise: ⓘ

It may take up to 72 hours to verify that your IP prefixes are valid for use with Direct Connect.

Cancel Continue

AWS Direct Connect Resources

Overview	https://aws.amazon.com/directconnect/
Details	http://docs.aws.amazon.com/directconnect/latest/UserGuide/Welcome.html
VPC Endpoints	http://docs.aws.amazon.com/AmazonVPC/latest/UserGuide/vpc-endpoints.html
Pricing	https://aws.amazon.com/directconnect/pricing/ <ul style="list-style-type: none">• There are different price rates for traffic to the local AWS region and remote AWS regions
FAQ	https://aws.amazon.com/directconnect/faqs/
How to configure	http://docs.aws.amazon.com/directconnect/latest/UserGuide/getstarted_sub1g_provider.html
AWS Locations	See FAQ
Diversity	<ul style="list-style-type: none">• Single port is single path all the way to AWS• PE/Path diversity available by ordering 2 IQ ports & 2 Direct Connect instances• Full diversity achieved by ordering at 2 separate locations
Notes	<ul style="list-style-type: none">• Traffic to/From AWS is rate limited to 500 mbit/sec when using an exchange provider• Higher bandwidths are available at following locations via DCI circuits + cross connects.<ul style="list-style-type: none">• 21701 Filigree, Ashburn VA (Equinix DC5 / US East - Virginia)• 11 Great Oaks Blvd, San Jose CA (Equinix SV1 / US West – Northern California)• 350 E Cermak Rd, 7th Floor Transport, Chicago, IL 60616 (Equinix CH1, CH2, and CH4)• Dynamic Routing via BGP• VPC support bring your own private IP