

How to Create a Private Edge Service in Barracuda SecureEdge

<https://campus.barracuda.com/doc/98223586/>

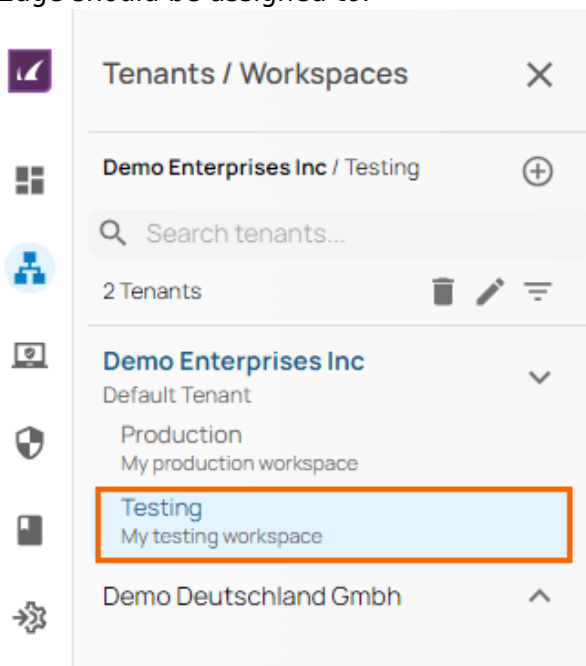
Barracuda SecureEdge provides a Private Edge service for hybrid deployments. A Private Edge is an on-premises Edge Service ideal for organizations that need to follow certain geopolitical requirements or need full control over their data plane. Private Edge devices provide the same scope of security and networking functionality as the cloud service and are administrated and maintained via a central management platform.

Before You Begin

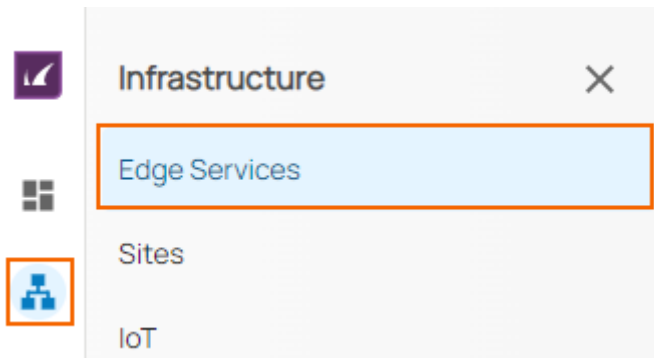
- You need an ISP with a static public IP version 4 address.
- High availability is recommended. For more information, see [High Availability](#).

Step 1. Create the Private Edge Configuration

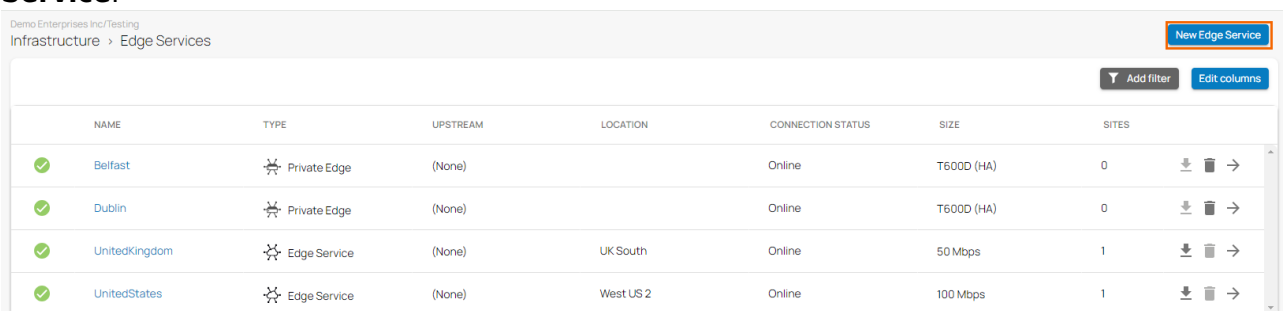
1. Go to <https://se.barracudanetworks.com> and log in with your existing Barracuda Cloud Control account.
2. In the left menu, click the **Tenants/Workspaces** icon and select the workspace your Private Edge should be assigned to.



3. In the left menu, click the **Infrastructure** icon, and select **Edge Services**.

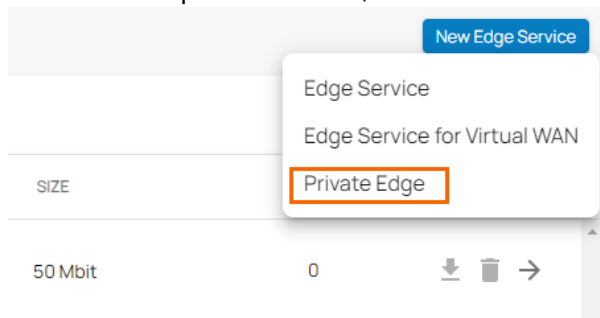


4. The **Edge Services** page opens. In the top-right corner of the window, click **New Edge Service**.

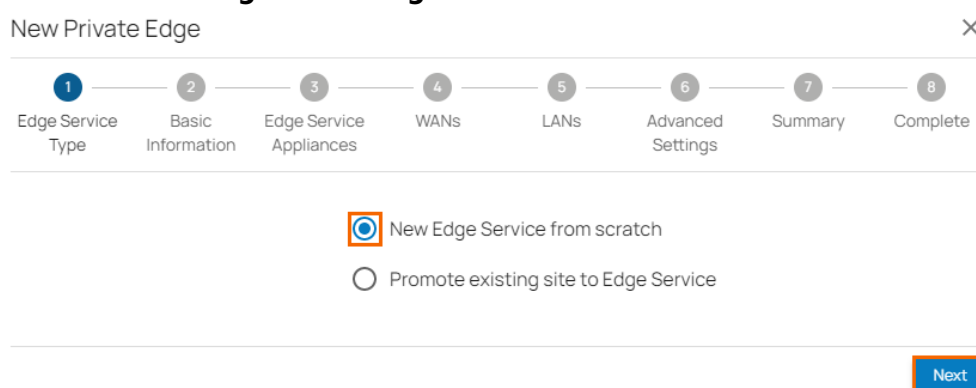
A screenshot of the 'Edge Services' page in the Barracuda SecureEdge interface. The page title is 'Demo Enterprises Inc/Testing' and the breadcrumb is 'Infrastructure > Edge Services'. In the top right corner, there is a button labeled 'New Edge Service' (highlighted with an orange border). Below the header, there is a table with columns: NAME, TYPE, UPSTREAM, LOCATION, CONNECTION STATUS, SIZE, and SITES. The table contains four rows of data, each with a green checkmark icon in the first column.

	NAME	TYPE	UPSTREAM	LOCATION	CONNECTION STATUS	SIZE	SITES
✓	Belfast	Private Edge	(None)		Online	T600D (HA)	0
✓	Dublin	Private Edge	(None)		Online	T600D (HA)	0
✓	UnitedKingdom	Edge Service	(None)	UK South	Online	50 Mbps	1
✓	UnitedStates	Edge Service	(None)	West US 2	Online	100 Mbps	1

5. From the drop-down menu, select **Private Edge**. The **New Private Edge** blade opens.



6. You are provided with two options. You can choose either **New Edge Service from scratch** or **Promote existing site to Edge Service**.

A screenshot of the 'New Private Edge' configuration wizard. The wizard has a progress bar at the top with eight steps: 1. Edge Service Type (selected), 2. Basic Information, 3. Edge Service Appliances, 4. WANs, 5. LANs, 6. Advanced Settings, 7. Summary, and 8. Complete. Below the progress bar, there are two radio button options: 'New Edge Service from scratch' (selected and highlighted with an orange border) and 'Promote existing site to Edge Service'. At the bottom right, there is a 'Next' button (highlighted with an orange border).

New Private Edge

1 Edge Service Type 2 Basic Information 3 Edge Service Appliances 4 WANs 5 LANs 6 Advanced Settings 7 Summary 8 Complete

☒ New Edge Service from scratch

☐ Promote existing site to Edge Service

Next

7. Select **New Edge Service from scratch**.
8. Click **Next**. The **Basic Information** blade opens.
9. Enter values for the following:
- **Name** – Enter the name of your Private Edge.
 - **Upstream Edge Service** – Select the Edge Service you want your Private Edge to

connect to. Select **(None)** if you do not want this service to connect to another one.

- **Root Password** – Enter the root password.
- **Confirm Root Password** – Retype the root password to confirm.


New Private Edge ×


1 ✓ 2 3 4 5 6 7 8

Edge Service Type Basic Information Edge Service Appliances WANs LANs Advanced Settings Summary Complete

Name * CampusPrivateEdge

Upstream Edge Service (None) ▼

Root Password * 

Confirm Root Password 

Back Next

10. Click **Next**. The **Edge Service Appliances** blade opens.

11. Select your appliance from the list of appliances linked to your account. Barracuda Networks recommends to use high availability. For a high availability cluster, select two appliances. For more information on high availability, see [High Availability](#). Note: After ordering, it can take up to 3 hours before your device is listed.

New Private Edge ×

1 ✓ 2 ✓ 3 4 5 6 7 8

Edge Service Type Basic Information Edge Service Appliances WANs LANs Advanced Settings Summary Complete

Select the Edge Service appliances you wish to configure. We recommend selecting two appliances, creating a High Availability cluster.

Note: Both appliances in an HA cluster must be the same model and have the same firmware version

🔍 Search serials

	SERIAL	MODEL	LOCATION	ORDER ID	ORDER DATE
<input checked="" type="checkbox"/>	342421	T600D	Frankfurt am Main, Hesse, 60313, Germany	1664267	2022-11-19
<input checked="" type="checkbox"/>	712483	T600D	Frankfurt am Main, Hesse, 60313, Germany	1664267	2022-11-19

Selected Serials 342421 712483

▼ Add missing appliance by serial and linking code/license token

Back Next

If your appliance is not listed, you can add it by using the serial number and the linking code found on the back of the Quick Start Guide delivered with your appliance. Note: After ordering, it can take up to 3 hours before your device is listed.

12. Expand **Add missing Private Edge appliance by serial and linking code/license token**. Then, specify values for the following:

- **Serial** – Enter the serial number of your appliance.
- **Code/Token** – Enter the linking code (located on the back of the Quick Start Guide shipped with your hardware appliance), or the token of your VTx appliance.

^ Add missing appliance by serial and linking code/license token

These are found on your Barracuda Networks confirmation email

Serial *

Code/Token *


Add


13. Click **Add** to add the device to your account.


14. Click **Next**. The **WANs** blade opens.


15. Select the number of desired WAN connections from the drop-down list.


New On-Premises Gateway ×



 Gateway Type



 Basic Information



 Gateway Appliances



 WANs



 LANs


 Advanced Settings


 Summary


 Complete





Your device has a total 19 ports available for both WAN and LAN designation.

How many WAN connections do you wish to configure for this gateway?

Number of WANs *

Back
Next

16. Click **Next**. The **Configure WAN link** blade opens.

17. Specify values for the following:

- **Name** – Enter a name for your uplink.
- **Port** – Select the port where your uplink is connected to. Note: Port 1 is reserved for high availability.
- **Virtual LAN ID** (Optional) – If required, enter the Virtual LAN ID this interface is connected to.
- **Provider Pinning** – Select a provider classification from the drop-down list.
- **IP Address** – Enter the IP address.
- **Netmask** – Enter a number between 0 and 32 for the subnet mask.
- **Gateway** – Enter the IP address of the gateway.

Configure WAN link 1

Name *	ISP-Uplink-1
Type	Static
Port	P4 (1Gb)
Virtual LAN ID	
Provider Pinning	Pin to Group 1
IP Address *	50.180.154.89
Netmask *	32
Gateway *	50.180.154.1

18. Click **Next**. The **LANs** blade opens.

19. Select the number of desired LAN connections from the drop-down list.

New On-Premises Gateway ×

Gateway Type ☒ Basic Information ☒ Gateway Appliances ☒ WANS ☒ LANs ☒ Advanced Settings ☐ Summary ☐ Complete

1 2

Your device has a total 19 ports available for both WAN and LAN designation, and you have allocated 1 to WAN.

How many LAN connections do you wish to configure for this gateway?

Number of LANs * 1

Back Next

20. Click **Next**. The **Configure LAN link** blade opens.

21. Specify values for the following:

- **Name** – Enter a name for your LAN.
- **Port** – Select a port from the drop-down list where the LAN is attached to. Note: Port 1 is reserved for high availability.
- **Virtual LAN ID** (Optional) – If required, enter the Virtual LAN ID this interface is connected to.
- **IP Address** – Enter the IP address.
- **Netmask** – Enter a number between 0 and 32 for the subnet mask.
- **DHCP Server** – Click to enable. If enabled, you must enter the **First IP Address** and the **Last IP Address**. IP addresses within this range will be automatically assigned via DHCP.

New Private Edge ×

Progress: 1. Edge Service Type (✓) 2. Basic Information (✓) 3. Edge Service Appliances (✓) 4. WANS (✓) 5. LANs (5) 6. Advanced Settings (6) 7. Summary (7) 8. Complete (8)

Configure LAN link 1

Name * CampusEdgeServiceLAN

Port P2 (1Gb)

Virtual LAN ID

IP Address * 192.168.10.1

Netmask * 24

DHCP Server ☐

Back Next

22. Click **Next**. The **Advanced Settings blade** opens.

23. Specify values for the following:

- **Update Window Timezone** - Select **Dynamic** from the drop-down list, or select the time zone where the appliance is located.
- **Primary DNS** - Enter the IP address of the primary DNS server.
- **Secondary DNS** - Enter the IP address of the secondary DNS server.

Update Window Timezone * Dynamic

Primary DNS 8.8.8.8

Secondary DNS 8.8.4.4

Back Next

24. Click **Next**. The **Summary** blade opens.

New Private Edge ×

✓

Edge Service Type

✓

Basic Information

✓

Edge Service Appliances

✓

WANs

✓

LANs

✓

Advanced Settings

7

Summary

8

Complete

Please review the details of your Edge Service and click save

Name	CampusPrivateEdge	WAN	ISP-Uplink-1
Serial	342421 712483	LAN	CampusEdgeServiceLAN
Upstream Edge Service	(None)	Primary DNS	8.8.8.8
Timezone	Dynamic	Secondary DNS	8.8.4.4

Back

Save

25. Review your specifications. If everything is correct, click **Save**.

26. Verify that your new Private Edge configuration has been created successfully and click **Finish**.

New Private Edge ×

Edge Service has been successfully created

Please ensure you plug port **P4** of the appliances below into a DHCP enabled internet connection to allow for the automatic configuration of your appliances. If you wish to use another port this can be configured directly on the appliances.

Connect port **P1** of both appliances directly with a network cable. HA sync will start automatically.

For more information see [Barracuda Campus](#)

Serial: 342421
Serial: 712483

Finish

The appliance will automatically apply the configuration upon its first boot.

Step 2. Deploy the Private Edge Appliance

For private edge appliances, you can use all hardware and virtual appliances except the Secure Connector.

For more information, see [Hardware Deployment](#), [Hardware Models](#), and [Virtual Systems \(VTx\) Deployment](#).

Figures

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