
How to Create a Private Edge Gateway in Barracuda CloudGen WAN

<https://campus.barracuda.com/doc/97519636/>

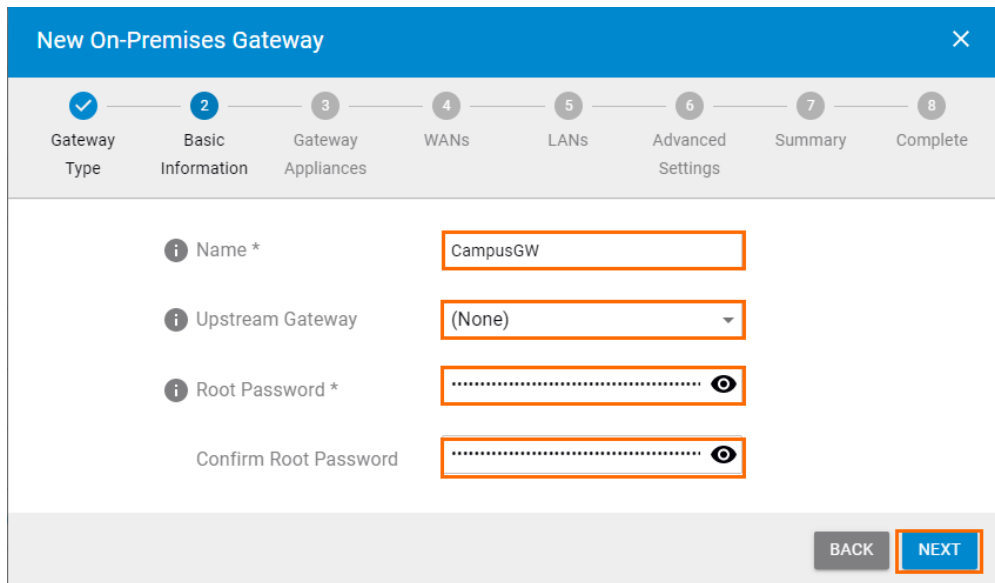
Barracuda CloudGen WAN provides private service edge for hybrid deployments. Private service edge is ideal for organizations that need to follow certain geopolitical requirements or need full control over the data plane. Private Service Edge devices provide the same scope of security and networking functionality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

Before You Begin

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

Step 1 Create the Gateway Configuration

1. Go to <https://cloudgenwan.barracudanetworks.com/> and log in with your existing Barracuda Cloud Control account.
2. Click **GATEWAYS**. The **GATEWAYS** page opens.
3. Expand **NEW GATEWAY** and select **On-Prem Gateway**. The **Gateway Type** blade opens.
4. Select **New Gateway from scratch**.
5. Click **NEXT**. The **Basic Information** blade opens.
6. Enter values for the following:
 - **Name** – Enter the name of the gateway.
 - **Upstream Gateway** – Select the gateway from the drop-down menu you want your gateway to connect to. Select **(None)** if you do not want this gateway to connect to another gateway.
 - **Root Password** – Enter the root password.
 - **Confirm Root Password** – Retype the root password to confirm.



The screenshot shows the 'New On-Premises Gateway' configuration wizard. The progress bar at the top indicates the current step is 'Basic Information' (Step 2). The steps are: 1. Gateway Type, 2. Basic Information, 3. Gateway Appliances, 4. WANs, 5. LANs, 6. Advanced Settings, 7. Summary, and 8. Complete. The form fields are: 'Name *' with the value 'CampusGW', 'Upstream Gateway' with the value '(None)', 'Root Password *' with a masked password, and 'Confirm Root Password' with a masked password. There are 'BACK' and 'NEXT' buttons at the bottom right.

7. Click **NEXT**.

8. The **Gateway Appliances** blade opens.

1. 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 On-Premises Gateway

✓ Gateway Type

✓ Basic Information

3 Gateway Appliances

4 WANs

5 LANs

6 Advanced Settings

7 Summary

8 Complete

Select the gateway 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

| | SERIAL | MODEL | LOCATION | ORDER ID | ORDER DATE |
|-------------------------------------|----------|--------|---------------------------------------|------------|------------|
| <input checked="" type="checkbox"/> | 71105120 | VT1500 | Innsbruck, Tyrol, 6020, Austria | 1490127839 | 2021-03-19 |
| <input checked="" type="checkbox"/> | 71329743 | VT1500 | Innsbruck, Tyrol, 6020, Austria | 1490127839 | 2021-03-19 |

< 1 >

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Selected Serials

71105120

71329743

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

BACK

NEXT

2. 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.
 1. Click **Add missing gateway appliance by serial/linking code**. 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.

New On-Premises Gateway

✓ Gateway Type

✓ Basic Information

3 Gateway Appliances

4 WANs

5 LANs

6 Advanced Settings

7 Summary

8 Complete

Select the gateway 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

| | SERIAL | MODEL | LOCATION | ORDER ID | ORDER DATE |
|--------------------------|----------|--------|---------------------------------|------------|------------|
| <input type="checkbox"/> | 92575454 | VT1500 | Tyrol, 6020, Austria | 1490127839 | 2020-03-18 |
| <input type="checkbox"/> | 96183820 | VT1500 | Innsbruck, Tyrol, 6020, Austria | 1490127839 | 2020-03-17 |
| <input type="checkbox"/> | 99778215 | VT1500 | | 1490127839 | 2020-05-13 |

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1-10 of 10

[Add missing appliance by serial and linking code/license token](#)

These are found on your Barracuda Networks confirmation email

Serial *

<serial>

Code/Token *

<token>

ADD

2. Click **ADD** to add the device to your account.

9. Click **NEXT**.

10. The **WANs** blade opens. Select the number of desired WAN connections from the drop-down list.

New On-Premises Gateway

✓ Gateway Type

✓ Basic Information

✓ Gateway Appliances

4 WANs

5 LANs

6 Advanced Settings

7 Summary

8 Complete

1

2

3

Your device has a total 15 ports available for both WAN and LAN designation.

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

Number of WANs *

1

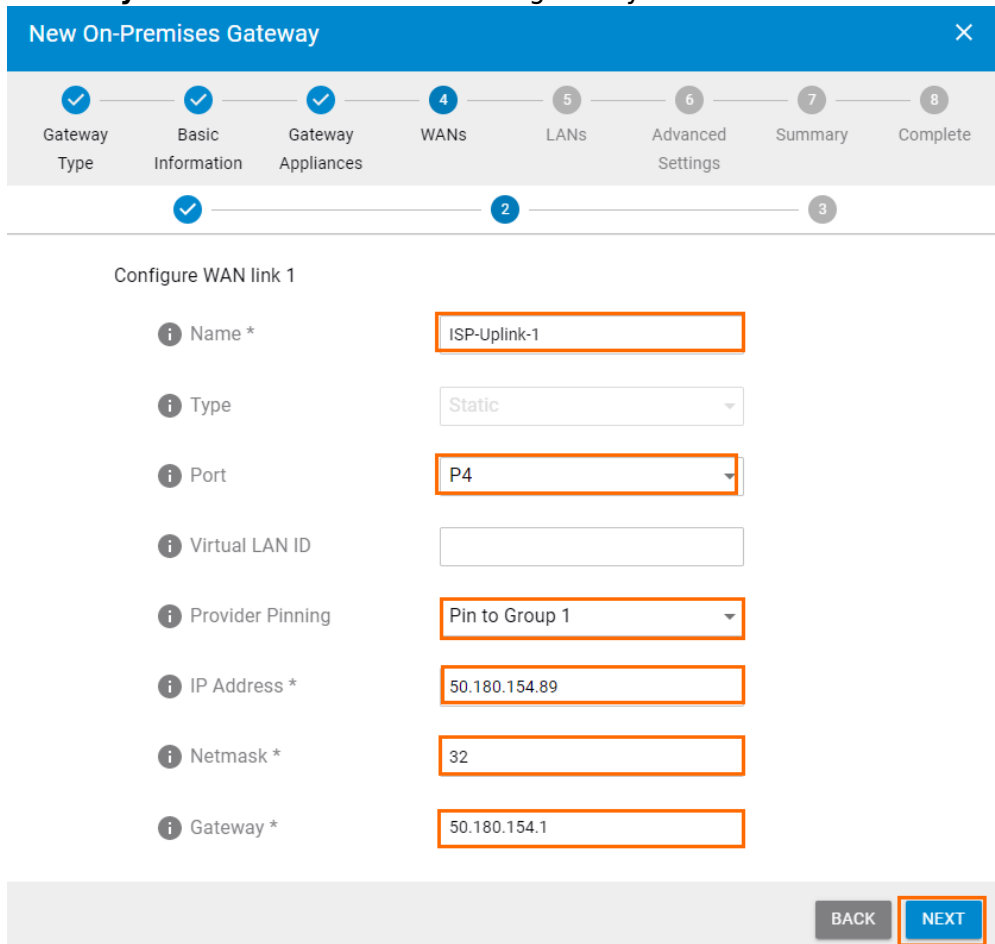
BACK

NEXT

11. Click **NEXT**.

12. The **Configure WAN link** blade opens. 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.



New On-Premises Gateway

Progress: 1. Gateway Type, 2. Basic Information, 3. Gateway Appliances, 4. WANS, 5. LANs, 6. Advanced Settings, 7. Summary, 8. Complete

Configure WAN link 1

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

BACK NEXT

13. Click **NEXT**.

14. The **LANs** blade opens. Select the number of desired LAN connections from the drop-down list.

New On-Premises Gateway

✓

✓

✓

✓

5

6

7

8

Gateway Type

Basic Information

Gateway Appliances

WANs

LANs

Advanced Settings

Summary

Complete

1

2

Your device has a total 15 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 *

BACK

NEXT

15. Click **NEXT**.

16. The **Configure LAN link** blade opens. 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 On-Premises Gateway

✓

✓

✓

✓

5

6

7

8

Gateway Type

Basic Information

Gateway Appliances

WANs

LANs

Advanced Settings

Summary

Complete

✓

2

Configure LAN link 1

i

Name *

i

Port

i

Virtual LAN ID

i

IP Address *

i

Netmask *

i

DHCP Server

☐

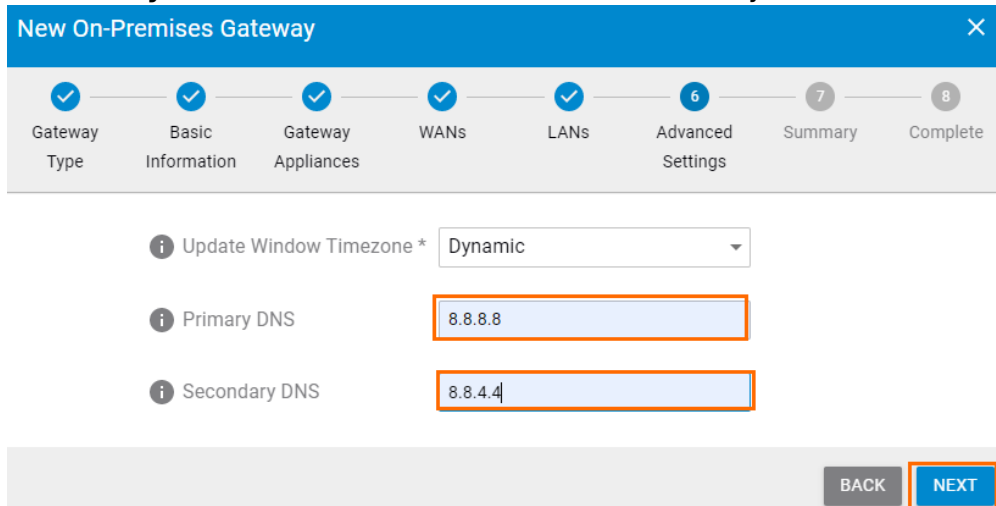
BACK

NEXT

17. Click **NEXT**.

18. The **Advanced Settings blade** opens. 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.



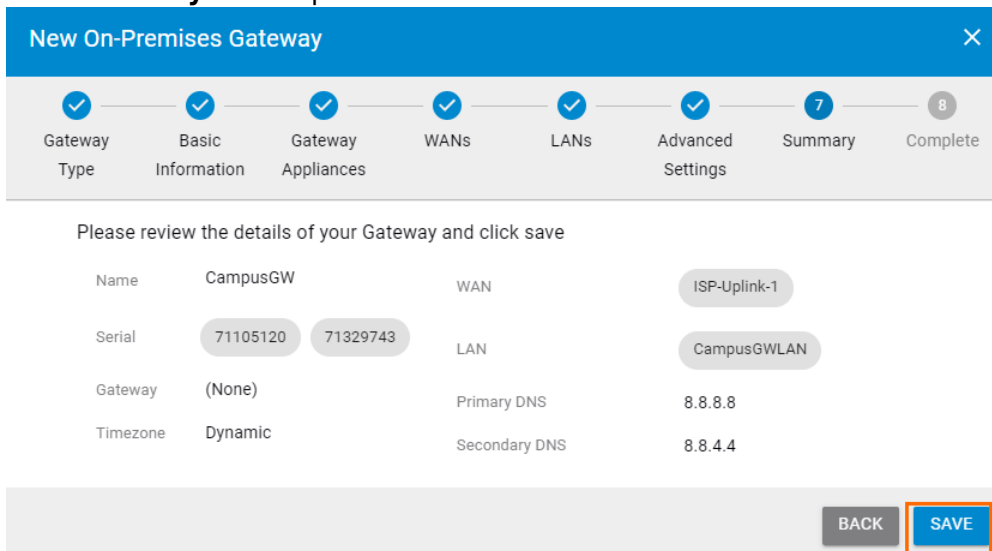
The screenshot shows the 'New On-Premises Gateway' configuration page. The progress bar at the top indicates that steps 1 through 5 (Gateway Type, Basic Information, Gateway Appliances, WANS, and LANs) are completed, and step 6 (Advanced Settings) is the current step. The configuration fields are as follows:

| Field | Value |
|--------------------------|---------|
| Update Window Timezone * | Dynamic |
| Primary DNS | 8.8.8.8 |
| Secondary DNS | 8.8.4.4 |

At the bottom right, there are 'BACK' and 'NEXT' buttons. The 'NEXT' button is highlighted with an orange border.

19. Click **Next**.

20. The **Summary blade** opens.



The screenshot shows the 'New On-Premises Gateway' configuration page. The progress bar at the top indicates that steps 1 through 6 are completed, and step 7 (Summary) is the current step. The summary table is as follows:

| Please review the details of your Gateway and click save | | | |
|--|-------------------|---------------|--------------|
| Name | CampusGW | WAN | ISP-Uplink-1 |
| Serial | 71105120 71329743 | LAN | CampusGWLAN |
| Gateway | (None) | Primary DNS | 8.8.8.8 |
| Timezone | Dynamic | Secondary DNS | 8.8.4.4 |

At the bottom right, there are 'BACK' and 'SAVE' buttons. The 'SAVE' button is highlighted with an orange border.

21. Review your specifications. If everything is correct, click **SAVE**.

22. Your gateway configuration has been created successfully. Click **FINISH**.

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

Step 2. Deploy the Gateway Appliance

For gateway 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

1. basic_gw831.png
2. appliances_gw.png
3. serial_token_gw.png
4. gw_wan.png
5. wan_gw.png
6. number_lan_gw.png
7. gw_lan.png
8. advanced_gw.png
9. gw_summar.png

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