

WCC Deployment Quick Start Guide

<https://campus.barracuda.com/doc/96767519/>

Complete the steps in this guide to configure, launch, and license your Barracuda WAF Control Center instance.

Before You Begin

- The Barracuda WAF Control Center Vx is deployed with one Network Interface Card (NIC) by default
- The management interface cannot be added without adding the LAN interface
- For deployments in AWS or Azure, the license type is "Bring your own license" (BYOL)

In this article:

- Private Cloud indicates systems like VMWare ESXi, Hyper-V, Oracle Virtual Box, etc.
- Public Cloud indicates Amazon Web Services and Microsoft Azure.

Deployment Steps

Perform the following steps:

- [Step 1. Open Network Address Ranges](#)
- [Step 2. Start the Virtual Appliance, Configure Networking, and Enter the License](#)
- [Step 3. Accept the End User License Agreement and Verify Configuration](#)
- [Step 4. Update the Firmware](#)
- [Step 5. Verify Configuration and Change the Password](#)
- [Step 6. Creating the Barracuda WAF Control Center Account Admin](#)

Step 1. Open Network Address Ranges

Ensure that you have network connectivity to "updates.cudasvc.com".

For private cloud deployments, ensure that the network ranges/ports are allowed on the upstream network firewall. For public cloud deployments, create the security group/network security groups.

- For more information about opening support connections, see [How to Open a Support Tunnel](#).
- For more information about outbound connections, see [Required Outbound Connections for Barracuda Appliances](#).

For more information on the usage of ports for the WCC, check the following table:

Hostname	Port	Direction	TCP/UDP	Purpose
term.cuda-support.com	22	Outbound	TCP	Technical Support connections
	25	Inbound/Outbound	TCP	Email alerts
	53	Outbound	Both	Domain Name Service (DNS)
cnt12.upd.cudasvc.com	80/8000	Inbound/Outbound	TCP	<ul style="list-style-type: none"> • Virus/attack/security definition and firmware updates • VM provisioning
cnt13.upd.cudasvc.com				
cnt14.upd.cudasvc.com				
cnt15.upd.cudasvc.com				
ntp.barracudacentral.com	123	Outbound	UDP	Network Time Protocol (NTP)
updates.cudasvc.com	443	Outbound	TCP	Initial VM provisioning *

* The initial provisioning port can be disabled after the initial provisioning process is complete.

Connectivity between WAF Instances and the WCC:

Bi-directional traffic for the following ports should be allowed between the WAF WAN IP address and the WCC WAN IP address.

Port	Direction	TCP/UDP	Purpose
48320/48321	Inbound/Outbound	TCP	Secure tunnel between the WCC and WAFs
2200	Inbound/Outbound	TCP	File transfer

Step 2. Start the Virtual Appliance, Configure Networking, and Enter the License

You should receive your license token/serial # of Barracuda Vx via email or from the website after you download the Barracuda WAF Control Center Vx package. If not, you can request an evaluation on the Barracuda website at <https://www.barracuda.com/purchase/evaluation> or purchase one from <https://www.barracuda.com/purchase/index>. The license token looks similar to the following: 01234-56789-ACEFG.

Virtual Machine Deployment for Private Clouds

Ensure that you make a note of the Barracuda Vx serial number displayed here. The same serial number should be provided as password when you log into the Barracuda Web Application Firewall Vx web interface.

1. In your hypervisor client, start the virtual appliance and allow it to boot up.
 1. For instructions on deploying the images on specific private cloud platforms, see [How to Deploy the Barracuda WAF Control Center Vx image](#).
 2. For instructions on allocating system resources like CPU, RAM, and storage, see [Allocating Cores, RAM, and Hard Disk Space for Your Barracuda WAF Control Center Vx](#).
2. After the deployment is complete, access the serial console of the VM, and from the console, log in with the following: username is "admin", and the password is the serial number.
3. In the **System Configuration** window, use the down arrow key and select **TCP/IP Configuration**. Configure the following:
 1. WAN IP Address
 2. WAN Netmask
 3. Gateway Address
 4. Primary DNS Server
 5. Secondary DNS Server
4. If the Internet can be accessed only through an explicit proxy, configure the proxy server using **Proxy Server Configuration (Optional)**, so that it reaches the Internet for provisioning.
5. Under **Licensing** enter your *Barracuda License Token* and *Default Domain* to complete provisioning. The appliance will reboot as a part of the provisioning process.

Virtual Machine Deployment for Amazon Web Services or Microsoft Azure

1. Select the **Barracuda Application Security Control Center - BYOL** from the respective marketplaces and proceed to deploy the virtual machine.
2. Ensure that the instance type has support for a minimum of 4 vCPU, for example, M4.XLarge.
3. Bind the security group/network security group created for the deployment.
4. Ensure that the virtual machine is provisioned with 1 NIC card only.
5. Proceed to deploy the virtual machine with the steps normally followed to deploy an AMI / Azure VM.

Step 3. Accept the End User License Agreement and Verify Configuration

1. Go to <https://<ip address>> to access the web interface.
2. Read through the **End User License Agreement**. Scroll down to the end of the agreement.
3. Enter the required information: Name, email address, and company (if applicable). Click **Accept**. You are redirected to the Login page.

Virtual Machine Deployment for Private Clouds

1. Log into the Barracuda WAF Control Center Vx web interface with username admin and the password, which is either:
 1. The numeric part of the serial number if your Vx preboot version is 4.6.1 or higher. To find the preboot version, check the name of downloaded Vx image (zip file), which is something like *BarracudaEmailSecurityGateway-p2-vm4.6.1-fw8.1.0.003-20200113-esx-vbox.zip*. The text between "vm" and "-fw" in the file name is the preboot version. In this example, it is 4.6.1. The serial number of your Vx is in your invoice and in your VM setup email.
 2. The word "admin" if your Vx preboot version is below 4.6.1. For help finding the serial number of your virtual appliance, see [Serial Number for Hardware and Virtual Appliances](#).
2. Go to the **BASIC > IP Configuration** page and configure the following:
 1. Configure TCP/IP configuration.
 2. Verify that the primary and secondary DNS servers are correct in the DNS Configuration section.
 3. Enter **Default Hostname** and **Default Domain** (for example, *<yourcompanydomain.com>*) in the **Domain Configuration**. The **Hostname** will be used in reporting and the **Default Domain** is the domain for the system.

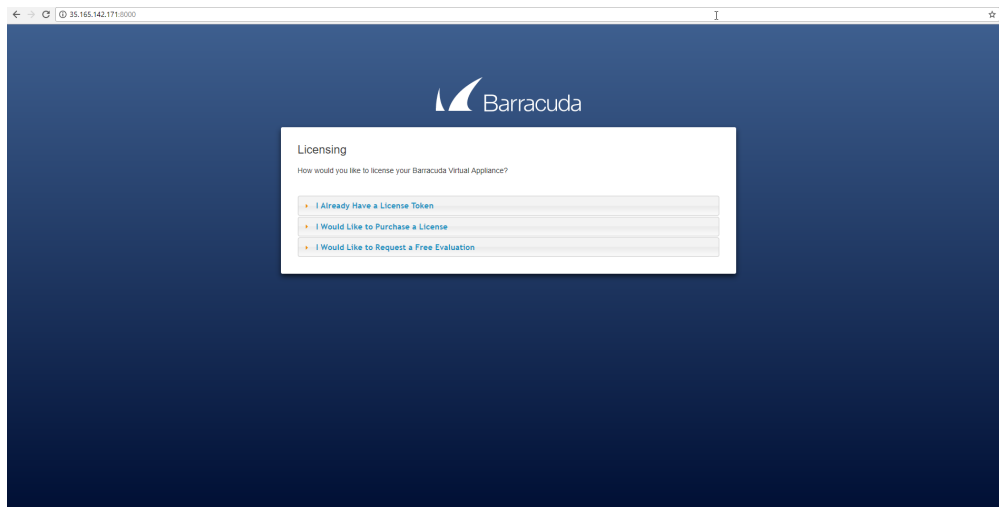
If you are planning to put the Barracuda WAF Control Center Vx in Offline mode, ensure you check the following:

- All definitions are updated on the **ADVANCED > Energize Updates** page.
- The Barracuda WAF Control Center Vx is on the latest Firmware Version on the **ADVANCED > Firmware Update** page.

The Barracuda WAF Control Center periodically connects to Barracuda Central to check for the availability of new Energize Updates. To receive new Energize Updates, ensure your Barracuda WAF Control Center is able to connect to the Internet to reach Barracuda Central.

Virtual Machine Deployment for Amazon Web Services or Microsoft Azure

1. Open the browser and enter the elastic IP address with port 8000 for HTTP. No port is required for HTTPS. For example:
For **HTTP**: *http://<Public DNS>:8000 (Unsecured)*
For **HTTPS**: *https://<Public DNS> (Secured)*
The Barracuda WAF Control Center is not accessible via HTTPS port while it is booting. Therefore, use only HTTP port to access the unit when booting. This displays the status of the unit, i.e., System Booting.
2. After the boot process is complete, the **Licensing** page displays with the following options:



1. **I Already Have a License Token** – Use this option to provision your Barracuda WAF Control Center with the license token you have already obtained from Barracuda Networks. Enter your Barracuda Networks Token and Default Domain to complete licensing, and then click **Provision**. The Barracuda WAF Control Center connects to the Barracuda Update Server to get the required information based on your license, and then reboots automatically. Allow a few minutes for the reboot process. After the instance is provisioned, you are redirected to the login page.
 2. **I Would Like to Purchase a License** – Use this option to purchase the license token for the Barracuda WAF Control Center. Provide the required information in the form, accept the terms and conditions, and click **Purchase**. The Barracuda WAF Control Center connects to the Barracuda Update Server to get the required information based on your license, and then reboots automatically. Allow a few minutes for the reboot process. After the instance is provisioned, you are redirected to the login page.
 3. **I Would Like to Request a Free Evaluation** – Use this option to get a 30-day free evaluation of the Barracuda WAF Control Center. Provide the required information in the form, accept the terms and conditions, and click **Evaluate**. The Barracuda WAF Control Center connects to the Barracuda Update Server to get the required information based on your license, and then reboots automatically. Allow a few minutes for the reboot process. After the instance is provisioned, you are redirected to the login page.
3. To log into the virtual machine:
1. For **AWS deployments**, the **Username** is *admin* and the **Password** is the *EC2 Instance ID*.
 2. For **Microsoft Azure deployments**, the **Username** is *admin* and the **Password** is the string entered during the initial configuration.

Step 4. Update the Firmware

Click on the **ADVANCED > Firmware Update** page. If there is a new *Latest General Release* available, perform the following steps to update the system firmware:

1. Click on the **Download Now** button located next to the firmware version that you wish to install. To view download progress, click on the **Refresh** button. When the download is complete, the **Refresh** button will be replaced by an **Apply Now** button.
2. Click on the **Apply Now** button to install the firmware. This will take a few minutes to complete.
3. After the firmware has been applied, the Barracuda WAF Control Center Vx will automatically reboot, displaying the login page when the system has come back up.
4. Log back into the web interface again and read the Release Notes to learn about enhancements and new features. It is also good practice to verify settings you may have already entered because new features may have been included with the firmware update.

Step 5. Verify Configuration and Change the Password

1. Log into the Barracuda WAF Control Center web interface as the administrator:
 1. **Username:** *admin*
 2. **Password:** **Instance ID** of your Barracuda WAF Control Center in Amazon Web Services.
2. Go to the **BASIC > Administration** page and enter your old password, new password, and re-enter the new password. Click **Save Password**.

Step 6. Creating the Barracuda WAF Control Center Account Admin

The Barracuda WAF Control Center Account Admin creates user accounts and associates the Barracuda Web Application Firewall instances to the corresponding accounts. Refer the link: [Accounts and Roles](#) for more details on accounts and roles.

To create the Barracuda WAF Control Center Account Admin, first log into the web interface using the Barracuda WAF Control Center Administrator Account (admin/aws-instance-id), and then complete the listed steps:

1. Go to the **BASIC > Account Management** page, and in the **Account Creation** section, enter the Account Name, Administrator Email Address, and select the Preferred Time Zone for the new account.
2. Click **Create Account**. The account displays in the Account View table at the top of the page.
3. A confirmation email containing the login credentials is sent to the administrator email address entered in Step 1 above. Use these credentials to log into the web interface to create users and assign permissions, connect devices, and view device status.

Figures

1. Barracuda_Licensing.png

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