

How to Enable Azure Accelerated Networking

<https://campus.barracuda.com/doc/17235/>

If the size of the virtual machine meets the requirements of Azure Accelerated Networking, you can enable it on existing devices. To deploy a CloudGen Firewall with Accelerated Networking initially enabled, see [How to Deploy a CloudGen Firewall from the Microsoft Azure Marketplace](#). The following steps are necessary only on CloudGen Firewall firmware 8.0.0 and 8.0.1.

- Verify that your virtual machine size matches the requirements for Azure Accelerated Networking.

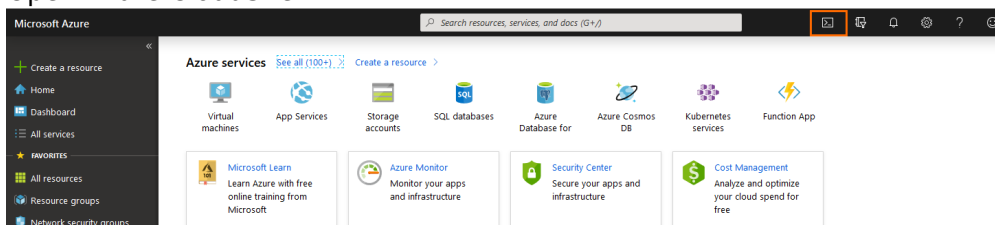
Azure Accelerated Networking creates, for each existing interface, a second interface for Accelerated Networking (one for the hv_netvsc driver, and one for Mellanox). Use only every second interface in boxnet (e.g., eth0, eth2, eth4). On devices with DHCP enabled, eth0 is replaced with the DHCP interface. On DHCP-enabled devices, as well, use only every second interface (e.g., eth0, eth2, eth4).

Step 1. (Optional) Enable Azure Accelerated Networking

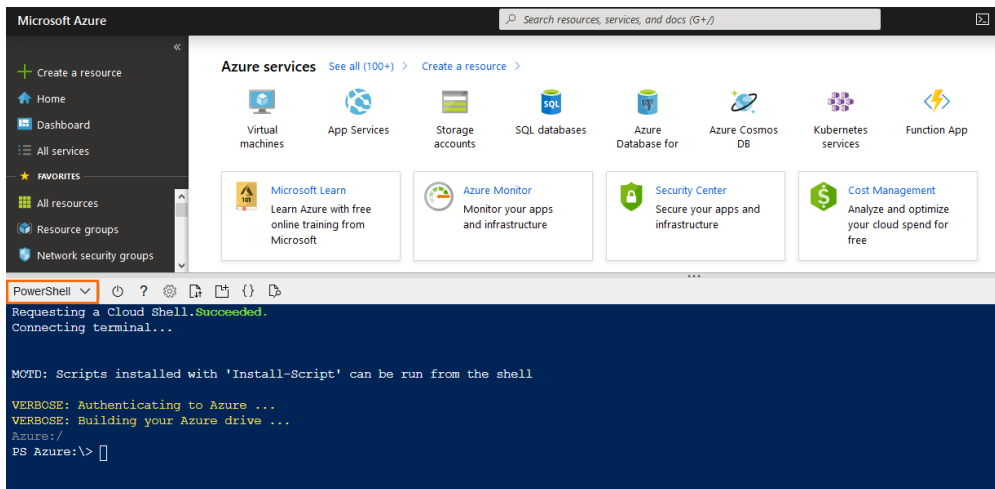
This step is necessary only if you did *not* deploy a CloudGen Firewall from the marketplace with initially enabled Azure Accelerated Networking.

On existing devices, Azure Accelerated Networking can be enabled only through the CLI.

1. Go to the Azure portal: <https://portal.azure.com>.
2. Shut down the CloudGen Firewall virtual machine. If the machine was created in an availability set, all machines in this set must be shut down.
3. Open Azure CloudShell.

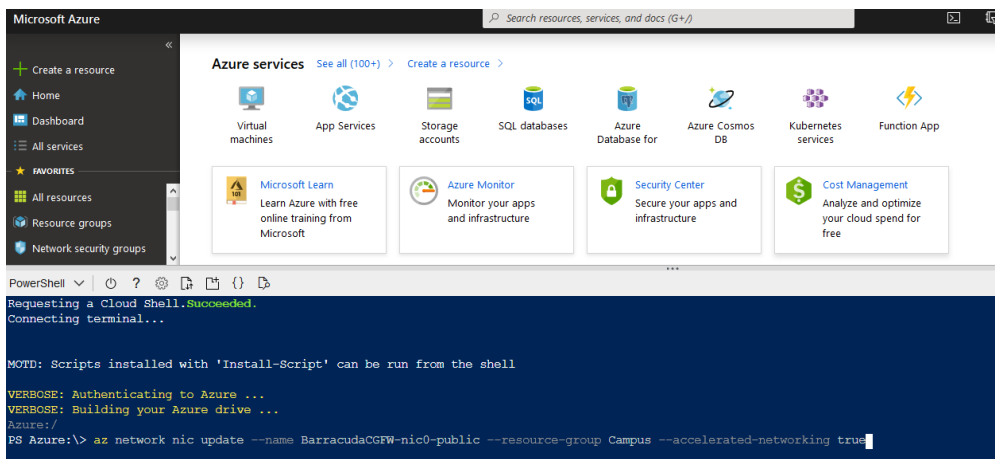


4. In the CloudShell, select **PowerShell** from the drop-down menu.



5. Enter the following commands. Replace your network interface card and resource group name:

```
az network nic update --name <name_of_NIC> --resource-group  
<resource_group_name> --accelerated-networking true
```



6. Press **Enter** to run the command.
7. Open the network interface **Properties** to verify that it operates with Accelerated Networking.

Home > BarracudaCGFW-nic0-public - Properties

BarracudaCGFW-nic0-public - Properties

Network interface

Search (Ctrl+)

- Overview
- Activity log
- Access control (IAM)
- Tags

Settings

- IP configurations
- DNS servers
- Network security group

MAC address
00-0D-3A-2B-8F-B0

Attached to
BarracudaCGFW

Load balancers
-

Accelerated networking
On

Step 2. Modify the Interfaces

Azure Accelerated Networking creates, for each existing interface, a second interface for Accelerated Networking (one for the hv_netvsc driver, and one for Mellanox). Use only every second interface in boxnet (e.g., eth0, eth2, eth4). On devices with DHCP enabled, eth0 is replaced with the DHCP interface. On DHCP-enabled devices, as well, use only every second interface (e.g., eth0, eth2, eth4).

For every NIC added in Azure, the boxnet dynnet driver must be configured to create 2 interfaces.

1. Go to the Azure portal: <https://portal.azure.com> .
2. Start the CloudGen Firewall virtual machine.
3. Open Barracuda Firewall Admin and log into the CloudGen Firewall.
4. Go to **CONFIGURATION > Configuration Tree > Box > Network**.
5. Click **Lock**.
6. In the left menu, select **Interfaces**.
7. In the **Network Interface Cards** list, double-click the **10dynmod** card.
8. Set the **Number of Interfaces** to **2**.

If your Barracuda CloudGen Firewall operates with more than one network interface card on Microsoft Azure, enter a multiple of two for the **Number of Interfaces**. For example, if 2 network interfaces are configured in Azure, configure 4 network interfaces as

Number of Interfaces.

9. Click **OK**.
10. Click **Send Changes** and **Activate**.
11. Go to **CONTROL > Box > Network**.
12. Click **Activate new network configuration** and click **Failsafe**.

Figures

1. cloudshell.png
2. powershell.png
3. enable_an.png
4. an_true_properties.png

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