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## Best Practice - Small Barracuda NG Firewall Systems

<https://campus.barracuda.com/doc/43846961/>

Some systems are shipped with 512 MB of RAM. These flash-based systems may report high CPU and RAM usage after a default installation. You can tune these small systems to decrease the RAM and CPU usage and lower system load during and immediately after startup.

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### Reduce Default Settings in General Firewall Configuration

You can reduce the amount of resources reserved for the Firewall service. Monitor your firewall log and adjust your settings accordingly if you run the risk of exceeding your limits.

1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > General Firewall Configuration**.
2. Click **Lock**.
3. In the left menu, expand **Configuration Mode** and click **Switch to Advanced View**.
4. Change the following settings:
  - **Max. Session Slots** - Enter *2048* . Default value F100 and F101: 8192, F10 and F15: 2048
  - **Max. Acceptors** - Enter 512. Default value: 1024.
  - **Max. Plugins** - Enter 512 . Default: 1024
  - **Dyn. Service Names (RPC)** - Enter 512. Default: 1024
  - **Max Socks Worker** - Enter 5. Default: 20
5. In the left menu, click **Operational TAP** and change the following setting:
  - **Max Worker Processes** - Enter 10. Default: 100
6. In the left menu, click **Application Detection** and change the following setting:
  - **Enable Protocol Detection** - Select **no**. Default: **yes**
7. Click **Send Changes** and **Activate** .
8. Restart the **boxfw** service to enable the new setting. For more information, see [Virtual Servers and Services](#).

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### Disable *phionRelCheck* after System Startup

Disable the release check to significantly reduce the system load after startup.

1. Go to **CONFIGURATION > Configuration Tree > Box > Advanced Configuration > Firmware Update**.
2. Click **Lock**.
3. In the **Release Check** section, select **no** from the **Boottime Release Check** list.
4. Click **Send Changes** and **Activate** .

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## Use URL Filter in the Firewall Service and Disable HTTP Proxy

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Use Application Control 2.0 to enforce your URL filter policies instead of the HTTP Proxy service. This will significantly reduce the load on your small NG Firewall appliance.

For more information, see [Application Control 2.0](#).

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## Reduce Maximum Number of VPN Tunnels

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Reducing the maximum number of VPN tunnels reduces the amount of RAM the VPN service uses.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > VPN-Service > VPN Settings**.
2. Click **Lock**.
3. Click **Click here for Server Settings**.
4. Set **Maximum Number of Tunnels** to 128. Default: **auto**.
5. Click **OK**.
6. Click **Send Changes** and **Activate**.

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## Disable IPS

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Disable the Intrusion Protection System to lower the system load.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > Firewall > IPS Policies**.
2. Click **Lock**.
3. Uncheck **Enable IPS**.
4. Click **Send Changes** and **Activate**.

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