# Centralized Linked Management of the Barracuda Web Security Gateway

https://campus.barracuda.com/doc/85492903/

This is an advanced configuration of the Linked Management feature. Barracuda Networks recommends updating the firmware on all systems to the same version and using the same models across the cluster. If you want to use different models, or have questions about this configuration, contact Barracuda Networks Technical Support. The Barracuda Web Security Gateway uses port 8002 to synchronize configuration between linked systems. This feature is available on the Barracuda Web Security Gateway 410 and above.

Using the Linked Management feature you can cluster, or link two or more Barracuda Web Security Gateways together to provide synchronized configuration and policy settings across all systems. This article addresses the use case of choosing to designate *one* system in the cluster as the 'controller' if you only want to make configuration / policy changes to one system. These changes then automatically propagate to the others in the cluster. For basic linked management configuration of two Barracuda Web Security Gateways, click **Help** in the **ADVANCED > Linked Management** page of the web interface.

Note that Linked Management does not provide load-balancing functionality. For load balancing and high availability, see High Availability and the Barracuda Web Security Gateway.

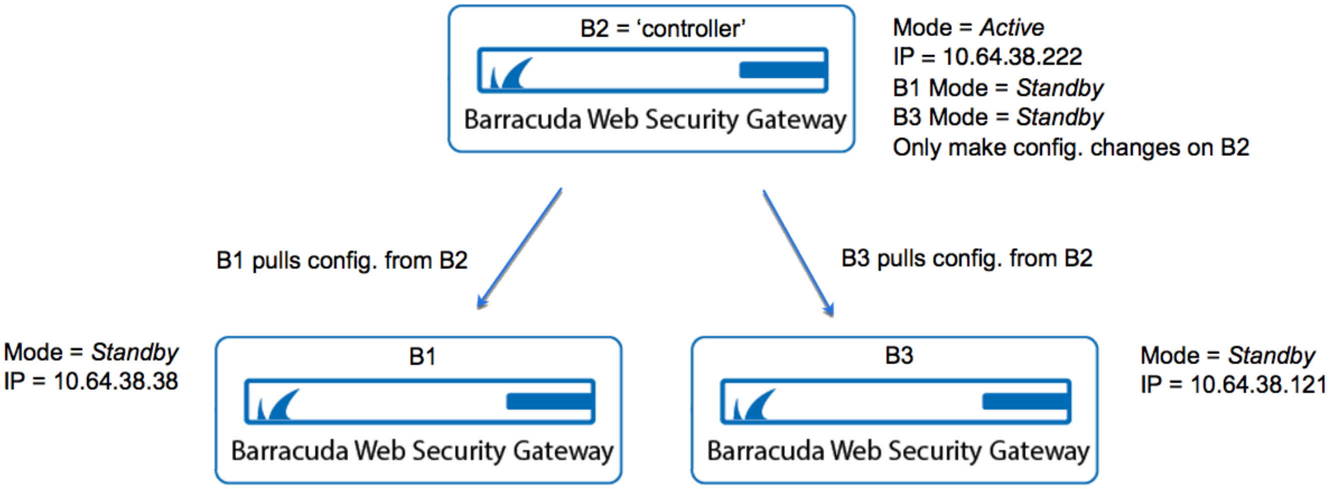
## When to Not Use Linked Management

Some network environments may not be suitable to linking multiple Barracuda Web Security Gateway systems together. For example, if you have multiple network segments that each require different policies, it may be better to provide a dedicated, unlinked Barracuda Web Security Gateway for each segment. This way you can configure each Barracuda Web Security Gateway without the configuration settings propagating to the other systems. See How to Set Up Barracuda Cloud Control for information about managing multiple Barracuda Web Security Gateways (and/or other Barracuda Networks products) with unique configuration and policy settings on each system.

## Example: Linking three systems

For example, you have three Barracuda Web Security Gateways and you want to synchronize configuration and policies across all three systems. In this example, system B2 is the ‘controller’ and systems B1 and B3 take their configuration and policies from B2. This configuration is illustrated in Figure 1. Steps to configure follow.

Figure 1. System B2 is the 'controller', and systems B1 and B3 pull their configuration from system B2



**Step 1. Prepare each system for linking.**

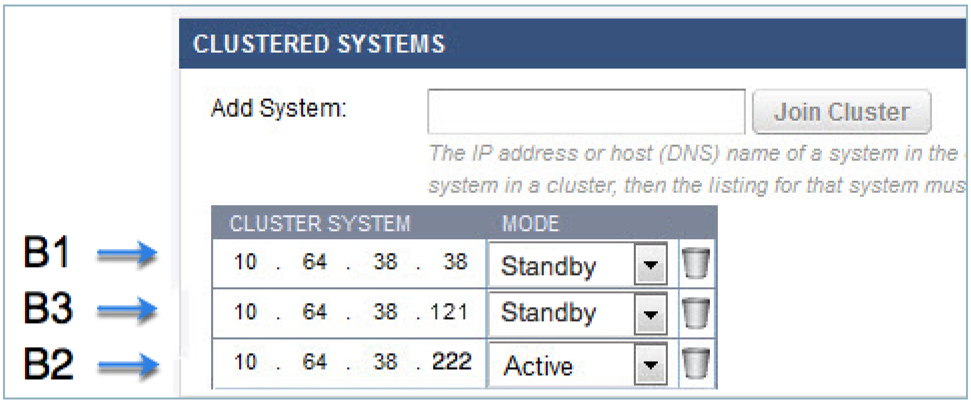
On each Barracuda Web Security Gateway, go to the **ADVANCED > Linked Management** page and create a **Cluster Shared Secret**. This is a password that is shared by all Barracuda Web Security Gateways in the cluster. Enter the same password *on each system* in the **Cluster Shared Secret** field in the **Cluster Settings** section of the page.

**Step 2. Configure Centralized Management With Linked Systems**

1. On system B2, go to the **ADVANCED > Linked Management** page. Set the **MODE** to *Active*.
2. On system B1, go to the **ADVANCED > Linked Management** page.
    1. In the table, set mode for THIS machine, B1, to *Standby*.
    2. In the **Add System** field, enter the IP address (or resolvable machine name) of B2.
    3. Click **Join Cluster**. The configuration of system B2 will overwrite the configuration on this system (B1).
3. On system B3, go to the **ADVANCED > Linked Management** page.
    1. In the table, set mode for THIS machine, B3, to *Standby*.
    2. In the **Add System** field, enter the IP address (or resolvable machine name) of B2.
    3. Click **Join Cluster**. The configuration on system B2 will overwrite the configuration on this system (B3).
4. On system B2, go to the **ADVANCED > Linked Management** page.
    1. Make sure the **MODE** for B1 and B3 are both set to *Standby*. This tells system B2 that systems B1 and B3 will each pull their configuration from THIS system (B2).
    2. On each of systems B1 and B3, go back to the **ADVANCED > Linked Management** page, and set the **MODE** for those systems to *Standby*.

**Figure 2. Clustered Systems table on ADVANCED > Linked Management page on system B2.**

**Note**: In version 16.0 and higher, the **Connection Status** and **Synchronization Latency** columns are no longer included in the table.



CLUSTERED SYSTEMS

Add System: Join Cluster

The IP address or host (DNS) name of a system in the

system in a cluster, then the listing for that system mus

| CLUSTER SYSTEM | MODE |
|---|---|
| 10 . 64 . 38 . 38 | Standby |
| 10 . 64 . 38 . 121 | Standby |
| 10 . 64 . 38 . 222 | Active |

## Important Notes About Centralized Management

- Any change you make on B2 will propagate to systems B1 and B3.
- Any change you make on any other system in the cluster (B1 and B3) will be unique to that system and will NOT propagate to the other systems.
- The **Mode** on each system does not matter to that system; it only matters to *other* systems in the cluster.
- Systems on *Standby* PULL their configuration from units set to *Active*.
- You can cluster mixed models, but keep in mind that some versions of lower models (410, for example) do not include the additional features available on higher models.

## Data not propagated to each system in the cluster:

- System IP Address/Netmask/Gateway
- System DNS Servers
- System Hostname
- Cluster Hostname
- System Time Zone
- System Password
- Local Host Map
- HTTP/HTTPS Port (must be the same value on all machines)
- HTTPS Certificate/Settings
- Ethernet Port Speeds/Duplex/MTU
- System Alert Email Address
- Static Routes
- Local Redirect IP (Block Page IP. Located under Block/Accept > Configuration)
- Appearance Logo
- Appearance URL

- Syslog Servers
- VLAN Name
- VLAN Interface
- Virtual Interface
- IP Route Configuration
- Cluster Shared Secret
- Cluster Systems
- HTTPS UI port
- Use HTTPS UI only
- Secure Administration Certificate Config
- Operating Mode
- Peer Proxy Enable/IP/Port
- Connect to Cloud Control
- Proxy Auth Helper Threads/Custom
- WCCP Config
- SSL Inspection Cert
- Schedule Report
- Delegated Admin Users
- Auxiliary Port Enable/IP/Netmask/Gateway
- WSA Hostname
- Offline Update

## Figures