# Authentication Sync to Trust Zone

https://campus.barracuda.com/doc/28361/

If you are running multiple authentication services on a Control Center, it can sometimes be useful to sync the authentication data of the users between these services.

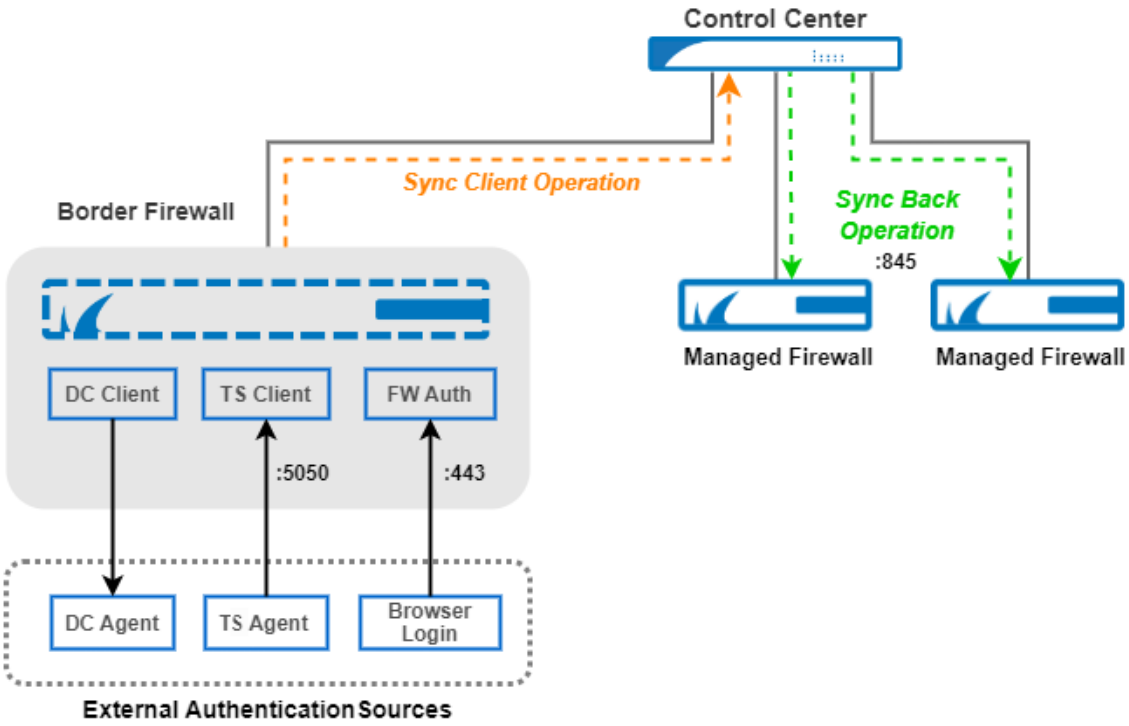
Authentication Sync to Trust Zone is a CC feature that distributes all authenticated user entries across managed boxes in the same non-policy trust zone. The service is supplied with data from the DC Agent, the TS Agent, or the firewall authentication service. The information from these services is collected on the box side and is interpreted accordingly before it is sent to the Control Center in a sync client operation. This central authentication data is then distributed to all boxes that are registered in the same authentication sync zone. This sync-back operation gets triggered every 10 seconds by default.

If a single box goes down during the distribution of the authentication data, the Control Center holds back every authentication entry to do a full sync after the box gets available again.

The Authentication Sync to Trust Zone service must be configured on the Control Center. The configuration requires switching to the advanced mode in Firewall Admin.

NOTE!

The Authentication Sync to Trust Zone is a stand-alone service and is not related to NAC/VPN policy trust zones or to any ranges or clusters.




#### Authentication Sync Zones on HA Pairs

If you are running an authentication sync zone on an HA pair, you must consider that the authentication database gets overwritten every second. This can lead to unexpected issues. To avoid these issues, you must ensure that certain settings are configured correctly for high availability-related policies, especially on firewalls that have been updated only over a longer period (see below).

## How to Create a New Authentication Sync Zone

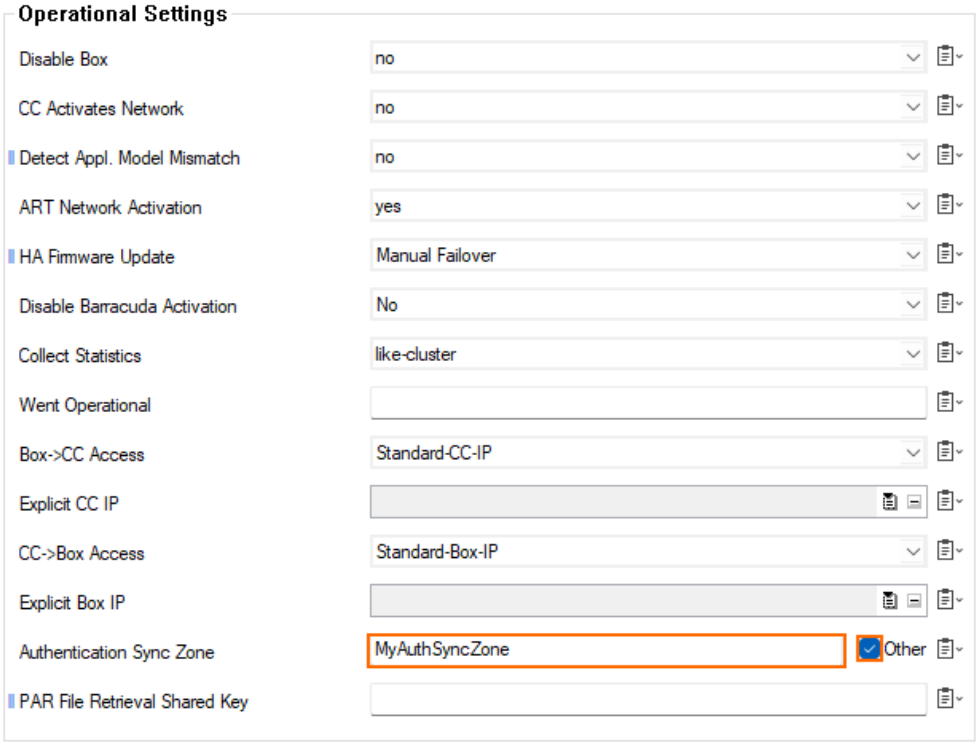
Creating a new authentication trust zone is not tied to a dedicated node in the configuration tree. To create a new authentication sync zone, simply add a single entry to a specific managed firewall. This entry will then be offered for selection on any other managed firewall.

#### Step 1. Create a New Authentication Sync Zone

This step is required only if an appropriate zone does not yet exist. It is therefore recommended to check the list of present sync zones for the Authentication Sync Zone before you perform the following steps.

1. Log into your Control Center.
2. Go to **CONFIGURATION > Configuration Tree > Multi-Range > *your range* > *your cluster* > Boxes > *your_box* > Properties**.

3. In the left menu, click **Operational**.
4. Click **Lock**.
5. In the section **Operational Settings**, for **Authentication Sync Zone**, click **Other**.
6. The drop-down menu item will be replaced with an edit field.
7. Enter the name you have chosen for your authentication sync zone into the edit field.



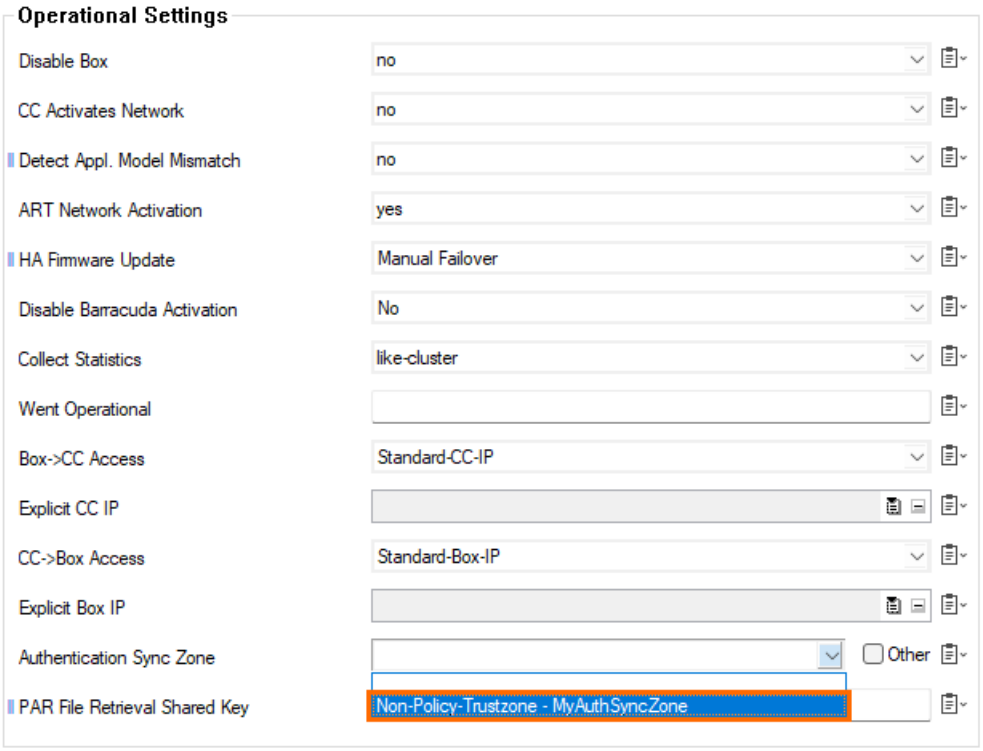

8. Click **Send Changes**.
9. Click **Activate**.

After creating a new authentication sync zone, the zone will be available for selection on other boxes.

#### Step 2. Add Another Firewall to an Existing Authentication Sync Trust Zone

You can now add another firewall to feed that sync zone with authentication data. For this, perform the following steps:

1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > *your range* > *your cluster* > Boxes > *your_box* > Properties**.
2. In the left menu, click **Operational**.
3. Click **Lock**.
4. For **Authentication Sync Zone**, select the required sync zone from the list in the menu.




5. Click **Send Changes**.
6. Click **Activate**.

#### Step 3. Provide Authentication Sync Data to the Authentication Sync Zone

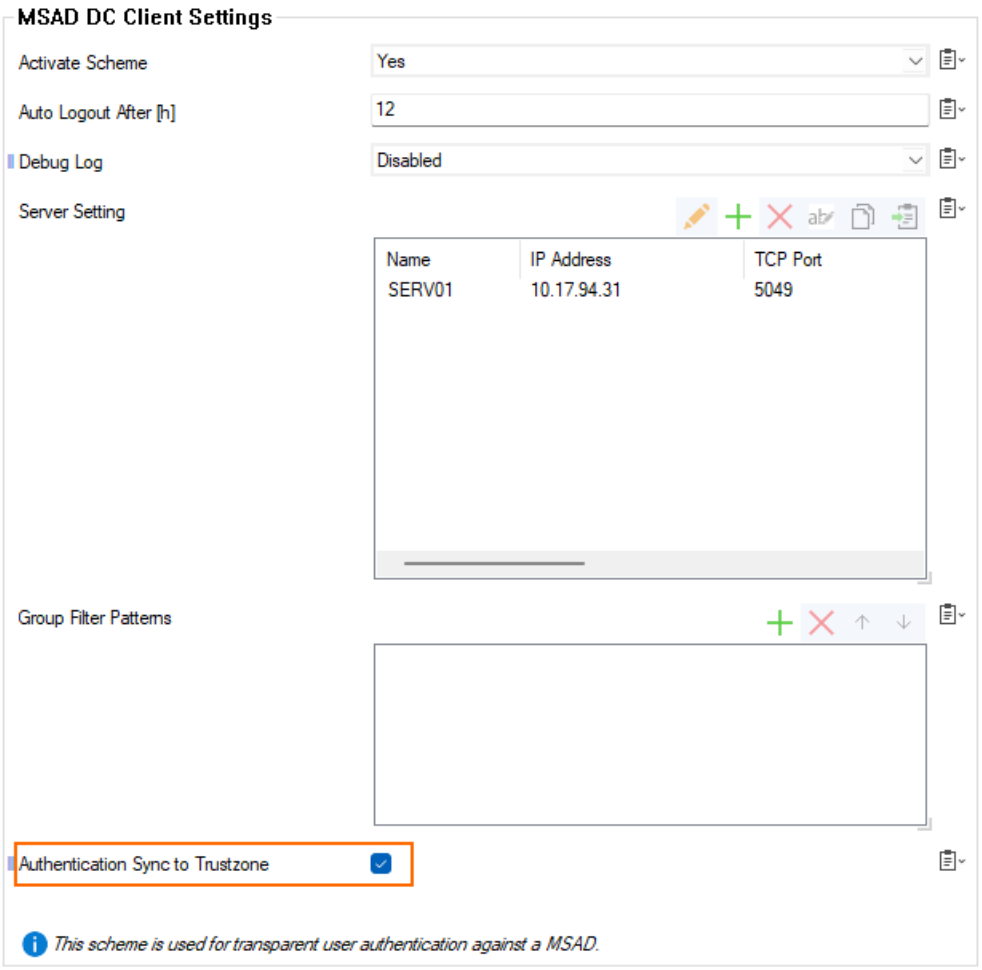
You can now add the following authentication services to feed the authentication sync zone with data.

- **MSAD DC Clients** – For more information on how to configure MSAD DC Clients, see How to Configure MSAD Authentication.
- **TS Agent Authentication** – For more information on how to configure TS Agent Authentication, see How to Configure TS Agent Authentication.
- **Firewall Authentication** – For more information on how to configure Firewall Authentication, see Firewall Authentication and Guest Access.
- Global/Non-Policy Trustzones

Ensure that you are running Firewall Admin in **Advanced Mode**!

#### Option #1: Add an MSAD Client Authentication Service

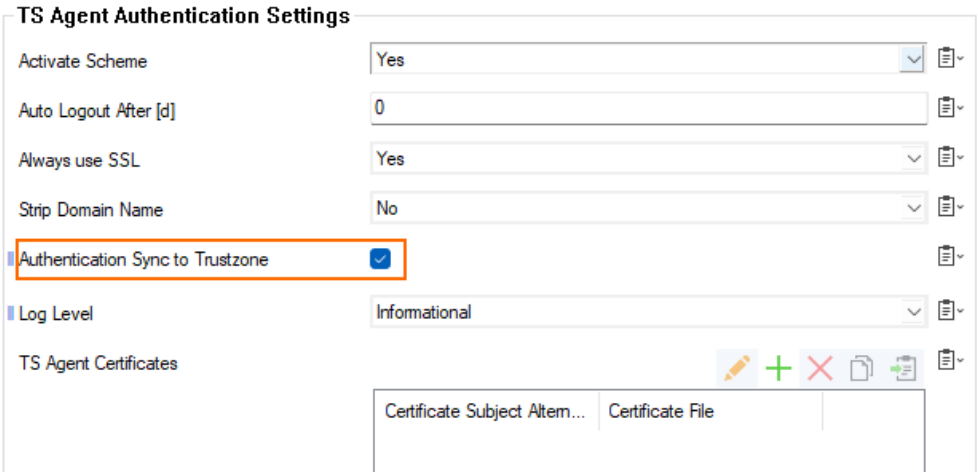
1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > *your range* > *your cluster* > Boxes > *your_box* > Infrastructure Service**.
2. In the left menu, select **MSAD DC Client**.
3. Select the check box for **Authentication Sync to Trustzone**.




4. Click **Send Changes**.
5. Click **Activate**.

**Option #2: Add a TS Agent Authentication Service**

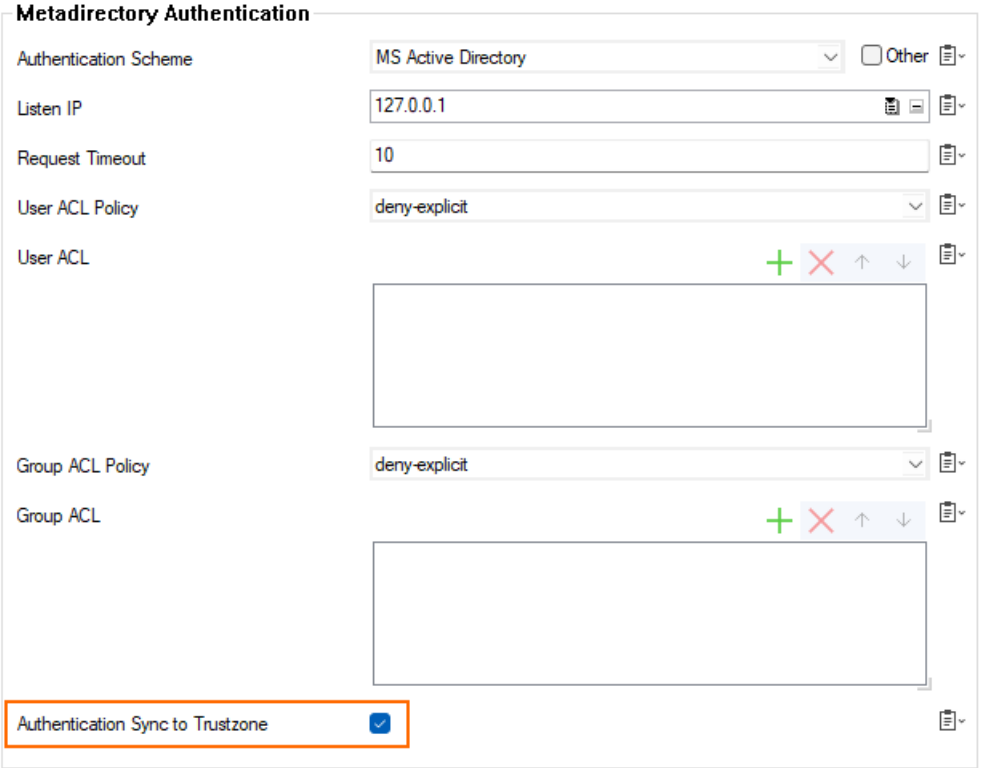
1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > *your range* > *your cluster* > Boxes > *your_box* > Infrastructure Service**.
2. In the left menu, select **TS Agent Authentication**.
3. Select the check box for **Authentication Sync to Trustzone**.




4. Click **Send Changes**.
5. Click **Activate**.

**Option #3: Add Firewall Authentication**

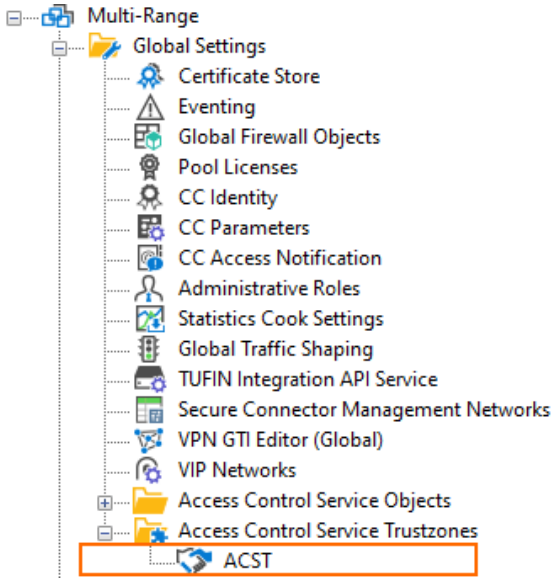
1. Go to **CONFIGURATION > Configuration Tree > Multi-Range > *your range* > *your cluster* > Boxes > *your_box* > Assigned Services > Firewall > Firewall Forwarding Settings**.
2. In the left menu, select **Authentication**.
3. Select the check box for **Authentication Sync to Trustzone**.



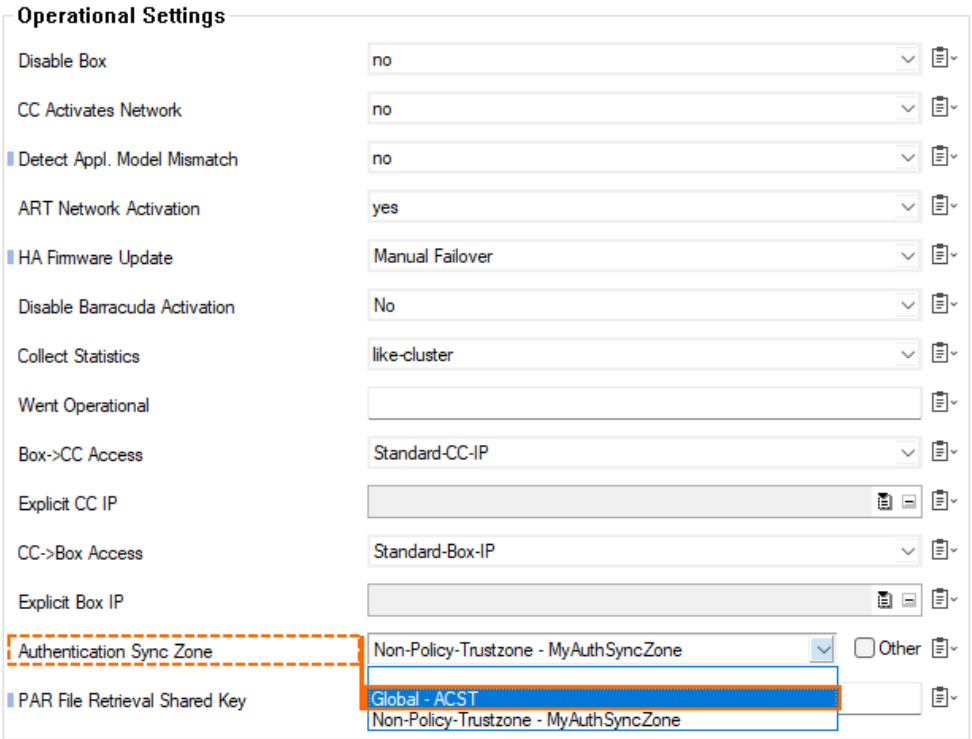

4. Click **Send Changes**.
5. Click **Activate**.

**Option #4: Add a Global Trustzone**

If you have configured a global **Access Control Service Trustzone**, this trusted zone will be displayed in the configuration at **CONFIGURATION > Configuration Tree > Multi-Range > Global Settings > Access Control Service Trustzones**:




This zone will also be available for selection in the menu list of authentication trust zones:



## Additional Settings to Ensure for HA Pairs

Because in an HA setup, the active box overwrites the authentication database every second, running an authentication sync zone can lead to issues. To avoid these issues, ensure that the configuration for high availability-related policies matches the settings of the following screenshot.

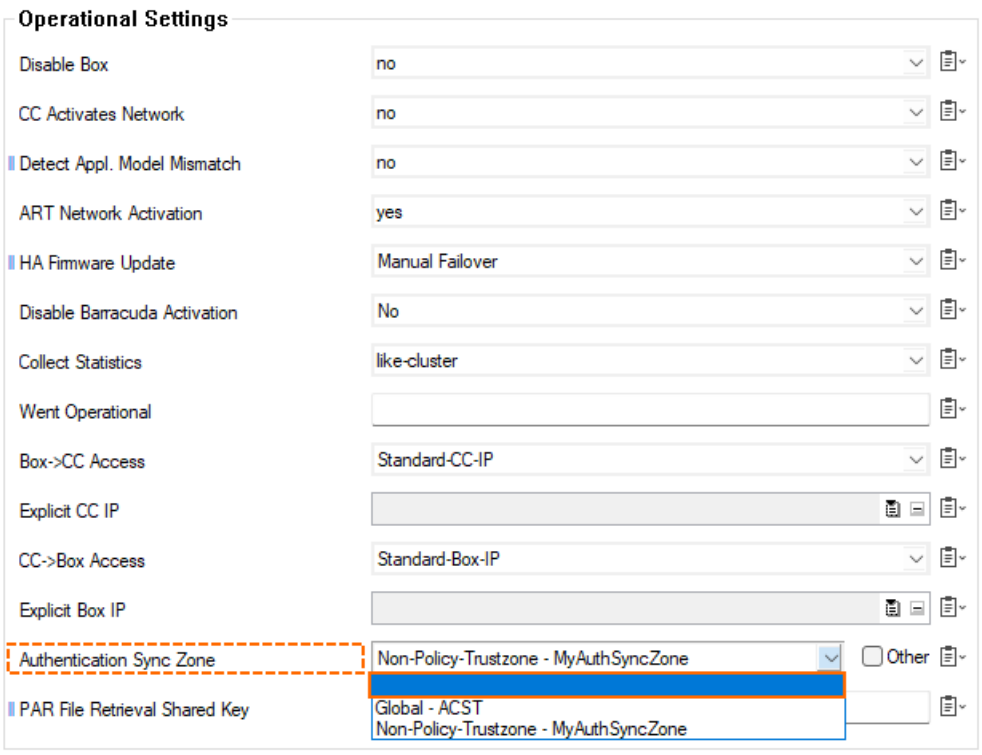
> Note that you must enable the advanced mode in Firewall Admin to access the related configuration section.

1. Log into your HA primary firewall.
2. Go to **CONFIGURATION > Configuration Tree > your_primary_firewall > Infrastructure Services > General Firewall Configuration**.
3. In the left menu, select **Operational**.
4. In the main view, scroll down to the last configuration section **High Availability Related Policies**.
5. Ensure that the value for **Enable Authentication Sync** is set to **Auto**.


## How to Remove an Authentication Sync Trust Zone

Removing an Authentication Sync Trust Zone is done by unregistering it. Perform the following steps to unregister from a sync zone:

1. Log into your Control Center.
2. Go to **CONFIGURATION > Configuration Tree > Multi-Range > *your range* > *your cluster* > Boxes > *your_first_box* > Properties**.
3. In the left menu, click **Operational**.
4. Click **Lock**.
5. Click the menu list for **Authentication Sync Zone**.
6. Select the first, empty line in the list.




**NOTE**

Adding a firewall to an existing Authentication Sync Trust Zone links it to the zone you have created at the beginning.

When unregistering from such a sync zone, the existing last link that refers to the sync zone will cause the initial sync zone entry to be removed from the list.

## Figures

1. authentication_synczone_diagram.png
2. auth_sync_zone_enter_sync_zone_name.png
3. auth_sync_zone_select_auth_sync_zone.png
4. auth_sync_zone_MSAD_DC_client_activate_sync_to_zone.png
5. auth_sync_zone_TS_agent_activate_sync_to_zone.png
6. auth_sync_zone_FW_auth_activate_sync_to_zone.png
7. auth_sync_zone_add_global_non_policy_trustzone.png
8. auth_sync_zone_select_global_ACST.png
9. auth_sync_zone_settings_for_HA_pairs.png
10. auth_sync_zone_remove_an_auth_sync_zone.png