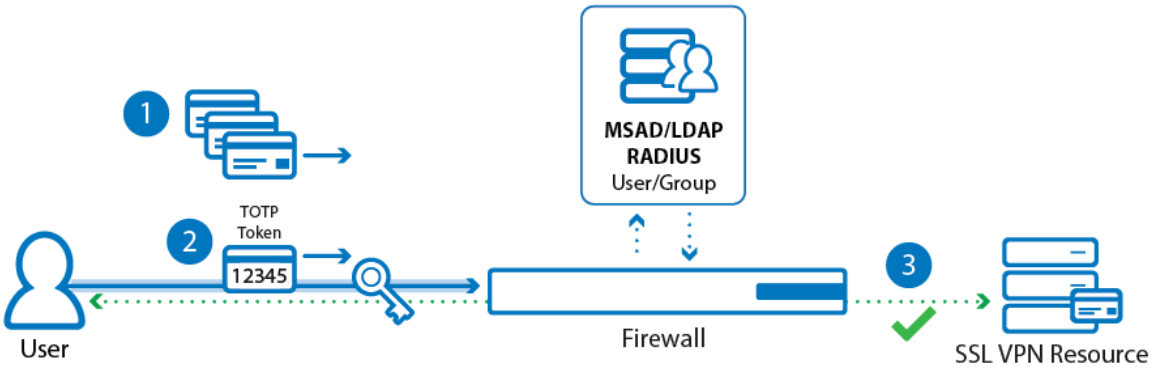
# How to Configure Access Control Policies for One-Time Password Authentication

https://campus.barracuda.com/doc/79462853/

Google Authenticator or Microsoft Authenticator are authentication schemes using Time-Based One-Time Passwords (TOTP) generated by an app on your mobile device to authenticate the user. The app generates temporary six-digit numbers calculated from a shared secret and the current time. To be able to use this on the CloudGen Firewall, the Google Authenticator app must be enrolled by the user in a two-step process. To associate the Google/Microsoft Authenticator with a user and group information, a helper scheme such as MSAD or LDAP must be configured. Google/Microsoft Authenticator is supported for CudaLaunch and the SSL VPN web portal. For users to be able to self-enroll, they must be able to access the SSL VPN through an Access Control Policy that is not using Google/Microsoft Authenticator as an authentication method. After all users are enrolled, the admin can then switch to an Access Control Policy requiring Google/Microsoft Authenticator. To be able to share the linked accounts over managed firewalls in a single HA cluster, use a repository entry.




## Enrolling Mobile Devices

- Create an SSL VPN Access Control Policy that allows users to log in without Google/Microsoft Authenticator.
- Instruct users to log into CudaLaunch or the SSL VPN web portal to enroll their devices. For more information, see Enroll your Mobile Device for use Time-Based One-Time Passwords (TOTP).
- Deactivate the original Access Control Policy and enable an Access Control Policy using Google/Microsoft Authenticator.

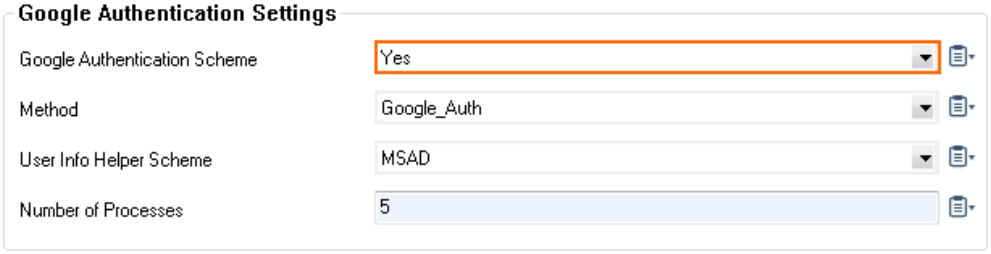
## Before You Begin

- Enable SSL VPN. For more information, see How to Configure the SSL VPN Service.

- Configure an authentication scheme with user/group information such as MSAD or LDAP to be used as the **User Info Helper Scheme**. For more information, see Authentication.

## Step 1. Enable Google Authenticator

1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > Authentication Service**.
2. In the left menu, click **Google Authentication**.
3. Click **Lock**.
4. From the **Google Authentication Scheme** drop-down list, select **Yes**.
5. (optional) Set **User Info Helper Scheme** to **MSAD** if group information is required.




6. Click **Send Changes** and **Activate**.

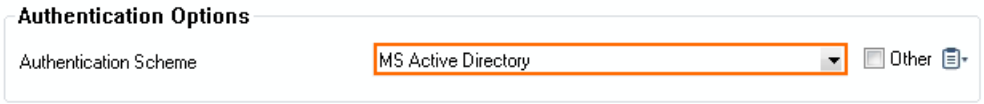
## Step 2. Configure an MFA Access Control Policy for Google Authentication

Configure an Access Control Policy using Google Authentication as the secondary authentication scheme.

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Service > VPN > SSL-VPN**.
2. In the left menu, click **Access Control Policies**.
3. Click **Lock**.
4. Click **+** to add an **Access Control Policy**. The **Access Control Policies** window opens.
5. Enter the **Name** and click **OK**.
6. In the **Access Control Policy** section, select the **Active** check box.


7. (optional) Add **Allowed Groups** and **Blocked Groups**.
8. (optional) To use multi-factor authentication, add the primary authentication scheme:
    1. Click **+** to add the primary authentication scheme to the **Authentication Scheme** table. The **Authentication Scheme** window opens.


2. From the **Authentication Scheme** drop-down list, select the primary authentication scheme. E.g., **MS Active Directory**, or **LDAP**



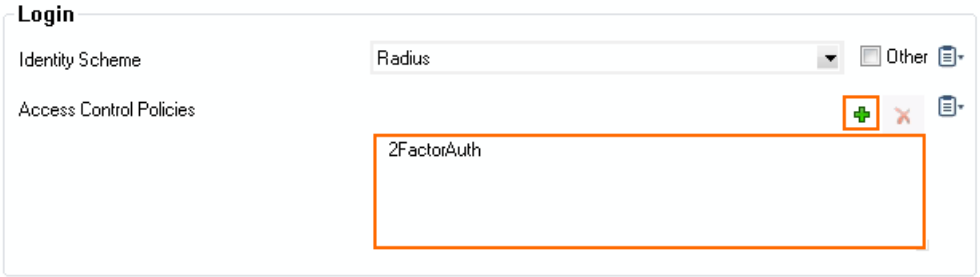

3. Click **OK**.

9. Click **+** to add Google Authentication to the **Authentication Scheme** table. The **Authentication Scheme** window opens.
10. In the **Authentication Schemes** window, set **Authentication Scheme** to **GoogleAuth**.


11. Click **OK**.
12. (optional) Click **+** to add NAC criteria to the **Network Access Control Criteria** table.
13. Click **OK**.
14. Click **Send Changes** and **Activate**.

## Step 3. Activate Access Control Policy for Google Authentication

1. Go to **CONFIGURATION > Configuration Tree > Box > Virtual Servers > *your virtual server* > Assigned Services > VPN > SSL-VPN**.
2. In the left menu pane, click **Login**.
3. Click **Lock**.
4. In the **Login** section, click **+** and select the Access Control Policy created in Step 2.



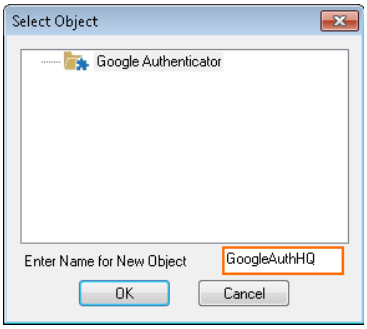

5. Click **Send Changes** and **Activate**.

## Step 4. (Single HA Cluster only) Create a Repository Entry and Link

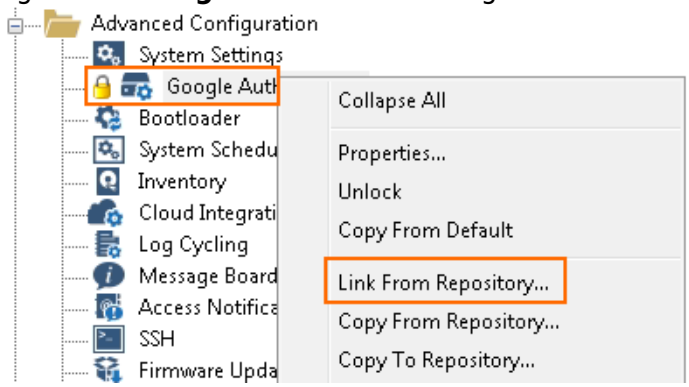
To be able to share the linked Google Authenticator accounts over managed firewalls in a high

availability cluster, use a repository entry and create repository links. The primary and secondary firewall must use the repository entry.

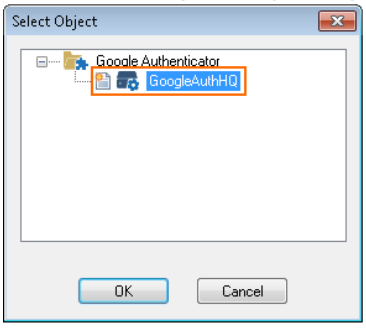
1. Log into the Control Center.
2. Go to **Your Managed Firewall > Infrastructure Services**.
3. Expand the configuration node, right-click **Google Authenticator** and click **Copy To Repository**. The **Select Object** window opens.
4. Enter a **Name** for the new Object.




5. Click **OK**.
6. Right-click **Google Authenticator** again and click **Lock**
7. Right-click **Google Authenticator** again and click **Link From Repository.**

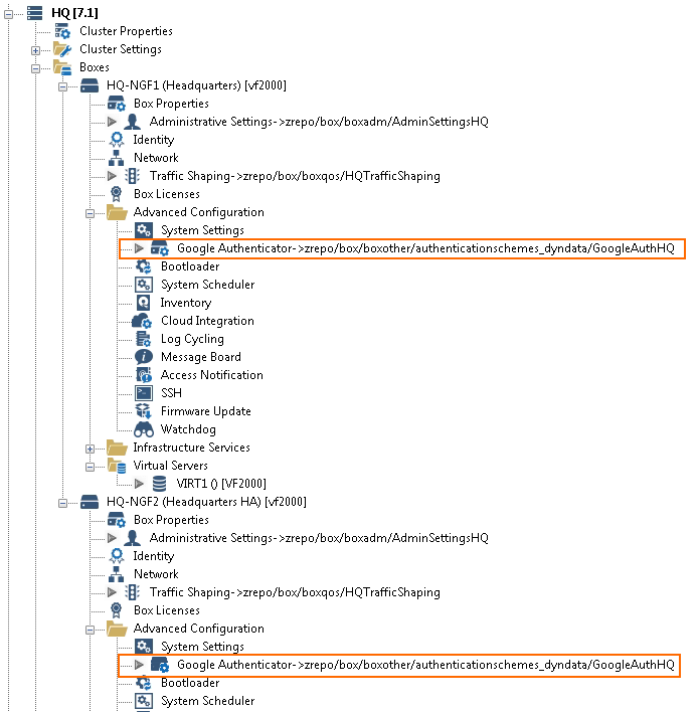



8. Select the Repository entry you just created.




9. Click **OK**.
10. Click **Activate**.

You can now link this repository entry to the secondary firewall in your HA cluster.


HQ [7.1]
Cluster Properties
Cluster Settings
Boxes
HQ-NGF1 (Headquarters) [vf2000]
Box Properties
Administrative Settings->zrepo/box/boxadm/AdminSettingsHQ
Identity
Network
Traffic Shaping->zrepo/box/boxqos/HQTrafficShaping
Box Licenses
Advanced Configuration
System Settings
Google Authenticator->zrepo/box/boxother/authenticationschemes_dyndata/GoogleAuthHQ
Bootloader
System Scheduler
Inventory
Cloud Integration
Log Cycling
Message Board
Access Notification
SSH
Firmware Update
Watchdog
Infrastructure Services
Virtual Servers
VIRT1 () [VF2000]
HQ-NGF2 (Headquarters HA) [vf2000]
Box Properties
Administrative Settings->zrepo/box/boxadm/AdminSettingsHQ
Identity
Network
Traffic Shaping->zrepo/box/boxqos/HQTrafficShaping
Box Licenses
Advanced Configuration
System Settings
Google Authenticator->zrepo/box/boxother/authenticationschemes_dyndata/GoogleAuthHQ
Bootloader
System Scheduler

## Figures

1. auth_02.png
2. enable_google_auth.png
3. activate_auth_scheme_00.png
4. add_authentication_scheme_00.png
5. add_authentication_scheme01.png
6. set_auth_scheme_googleauth_00.png
7. add_authentication_scheme02.png
8. google_auth_repository_01.png
9. google_auth_repository_02.png
10. google_auth_repository_03.png
11. google_auth_repository_04.png