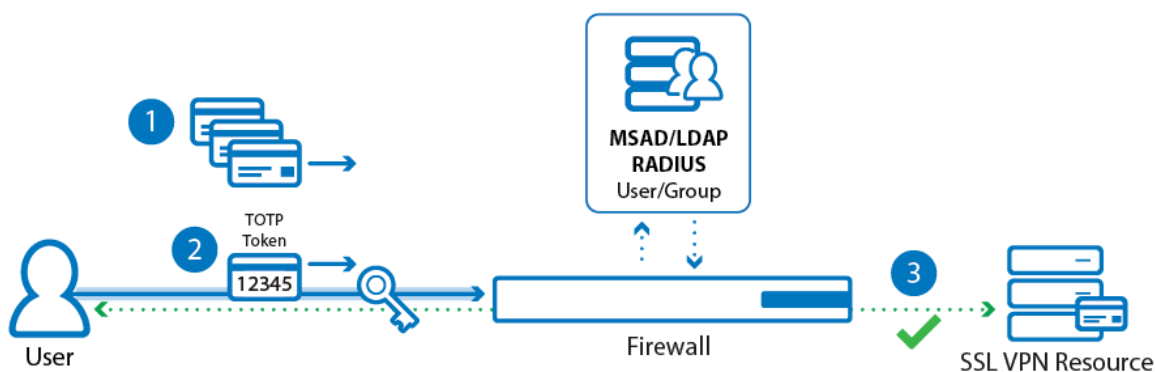


How to Configure Access Control Policies for One-Time Password Authentication

<https://campus.barracuda.com/doc/73719137/>

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.

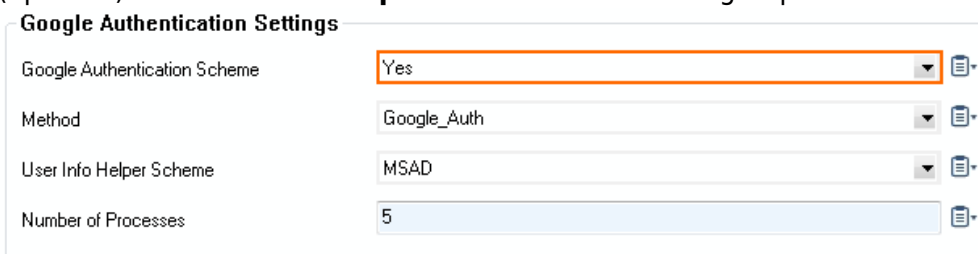
Before You Begin

- 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.



The screenshot shows the 'Google Authentication Settings' window. It contains four fields: 'Google Authentication Scheme' with a dropdown menu set to 'Yes' (highlighted with an orange border), 'Method' with a dropdown menu set to 'Google_Auth', 'User Info Helper Scheme' with a dropdown menu set to 'MSAD', and 'Number of Processes' with a text input field set to '5'. Each field has a small icon to its right.

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.



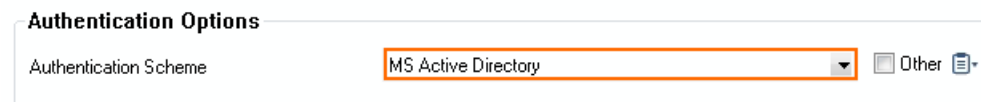
The screenshot shows the 'Access Control Policy' window. It contains a single row with the label 'Active' and a checked checkbox (highlighted with an orange border). There is a small icon to the right of the checkbox.

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.



The screenshot shows the 'Authentication' window with a table titled 'Authentication Schemes'. The table has one column labeled 'Authentication Scheme'. Above the table, there are icons for adding (+), deleting (X), and saving (floppy disk). The add icon is highlighted with an orange box.

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



The screenshot shows the 'Authentication Options' window. It has a label 'Authentication Scheme' followed by a drop-down menu currently showing 'MS Active Directory'. To the right of the drop-down is a checkbox labeled 'Other' and a save icon. The drop-down menu is highlighted with an orange box.

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

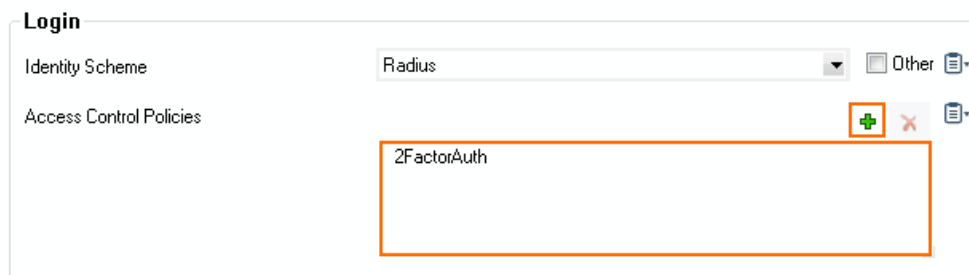


The screenshot shows the 'Authentication Options' window. It has a label 'Authentication Scheme' followed by a drop-down menu currently showing 'Google Auth'. To the right of the drop-down is a checkbox labeled 'Other' and a save icon. The drop-down menu is highlighted with an orange box.

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

Step 3. Activate Access Control Policy for Google Authentication

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



The screenshot shows the 'Login' window. It has two sections: 'Identity Scheme' with a drop-down menu showing 'Radius' and a checkbox labeled 'Other'; and 'Access Control Policies' with a table. The table has one column labeled 'Access Control Policies'. Above the table, there are icons for adding (+), deleting (X), and saving (floppy disk). The add icon is highlighted with an orange box. The table contains one entry, '2FactorAuth', which is also highlighted with an orange box.

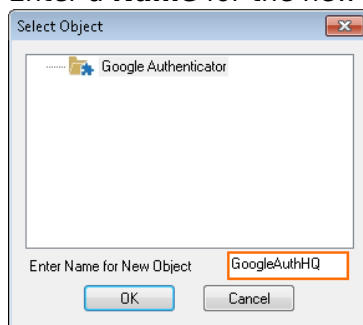
- Click **Send Changes** and **Activate**.

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

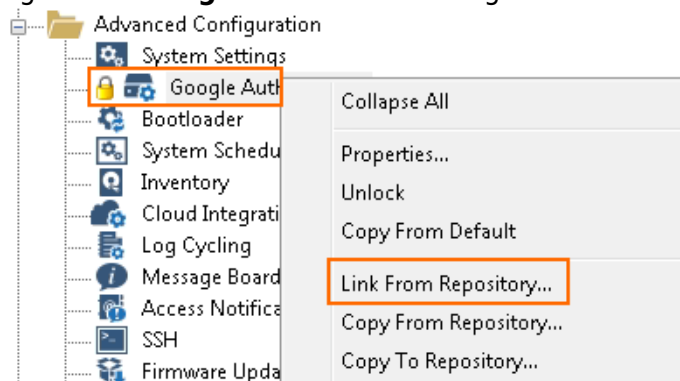
To be able to share the linked Google Authenticator accounts over managed firewalls in a high

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

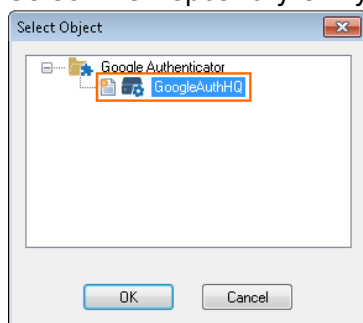
1. Log into the Control Center.
2. Go to **Your Managed Firewall > Infrastructure Services**.
3. Expand the configuration node, right-click **Google Authenticator** and click **Copy To Repository**. The **Select Object** window opens.
4. Enter a **Name** for the new Object.



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

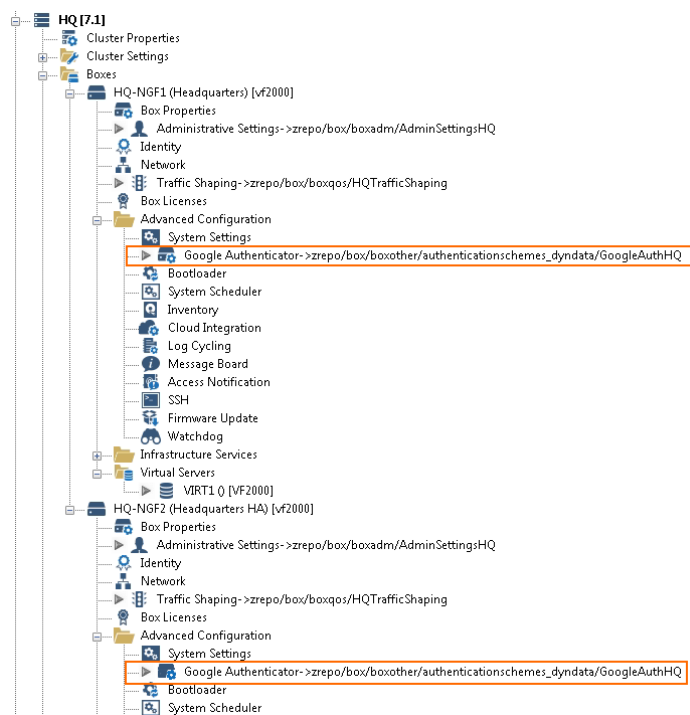


8. Select the Repository entry you just created.



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

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



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

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