

ManageEngine
ADAudit Plus

2FA

Configuration Guide

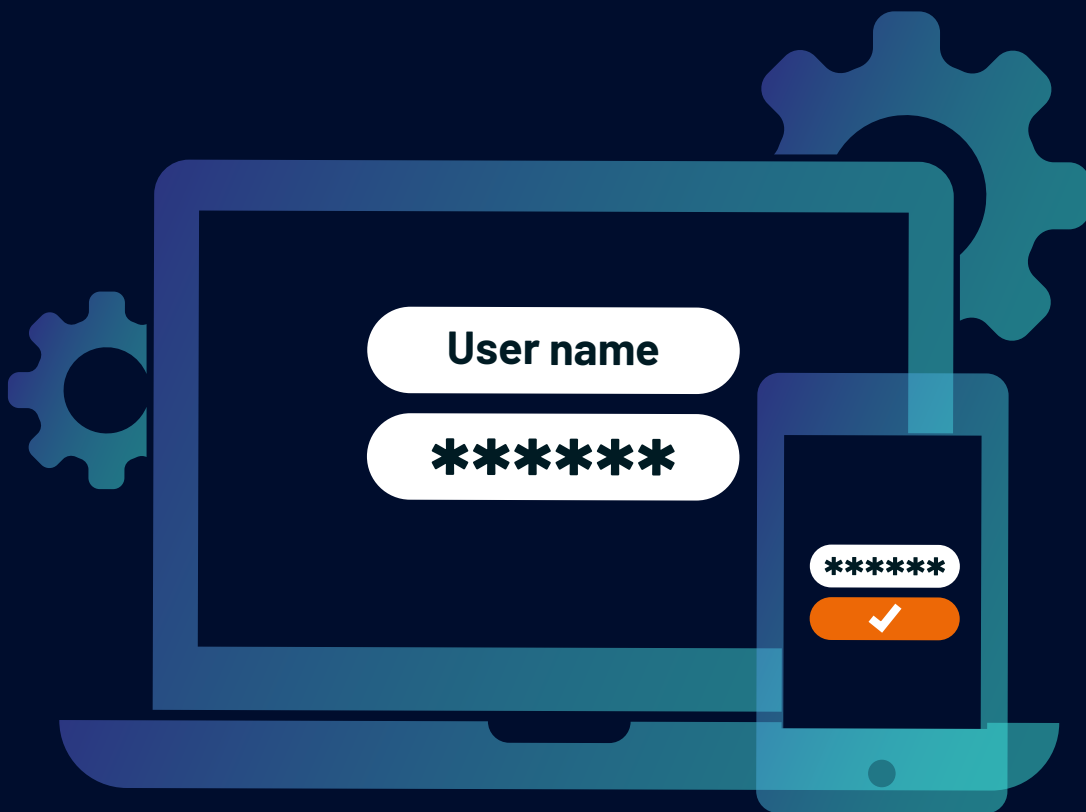


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1. Overview

Two-factor authentication (2FA) adds an extra layer of security to your account along with your username and password. When 2FA is enabled, ADAudit Plus will request that you authenticate twice during login.

ADAudit Plus supports the following six authentication modes for 2FA:

- > [Email Verification](#)
- > [SMS Verification](#)
- > [Google Authenticator](#)
- > [RSA SecurID](#)
- > [Duo Security](#)
- > [RADIUS Authentication](#)

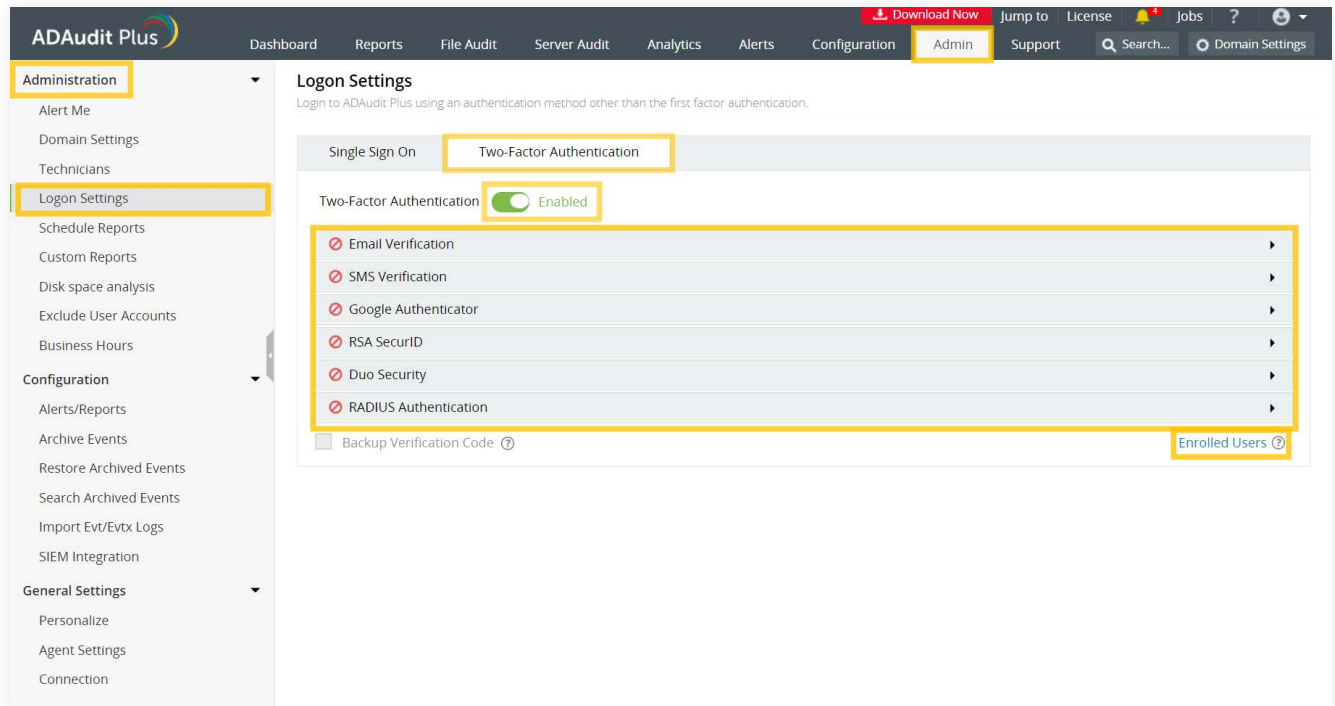
This guide will take you through the steps involved in enabling 2FA and setting up the authentication modes in ADAudit Plus.

2. Enable 2FA in ADAudit Plus

2.1 Steps to enable 2FA in ADAudit Plus

1. Open the **ADAudit Plus web console**.
2. Navigate to **Admin > Administration > Logon Settings**.
3. Select **Two-Factor Authentication**, and toggle to enable 2FA.
4. Configure one or more of the following six authentication modes for 2FA.

- > [Email Verification](#)
- > [SMS Verification](#)
- > [Google Authenticator](#)
- > [RSA SecurID](#)
- > [Duo Security](#)
- > [RADIUS Authentication](#)



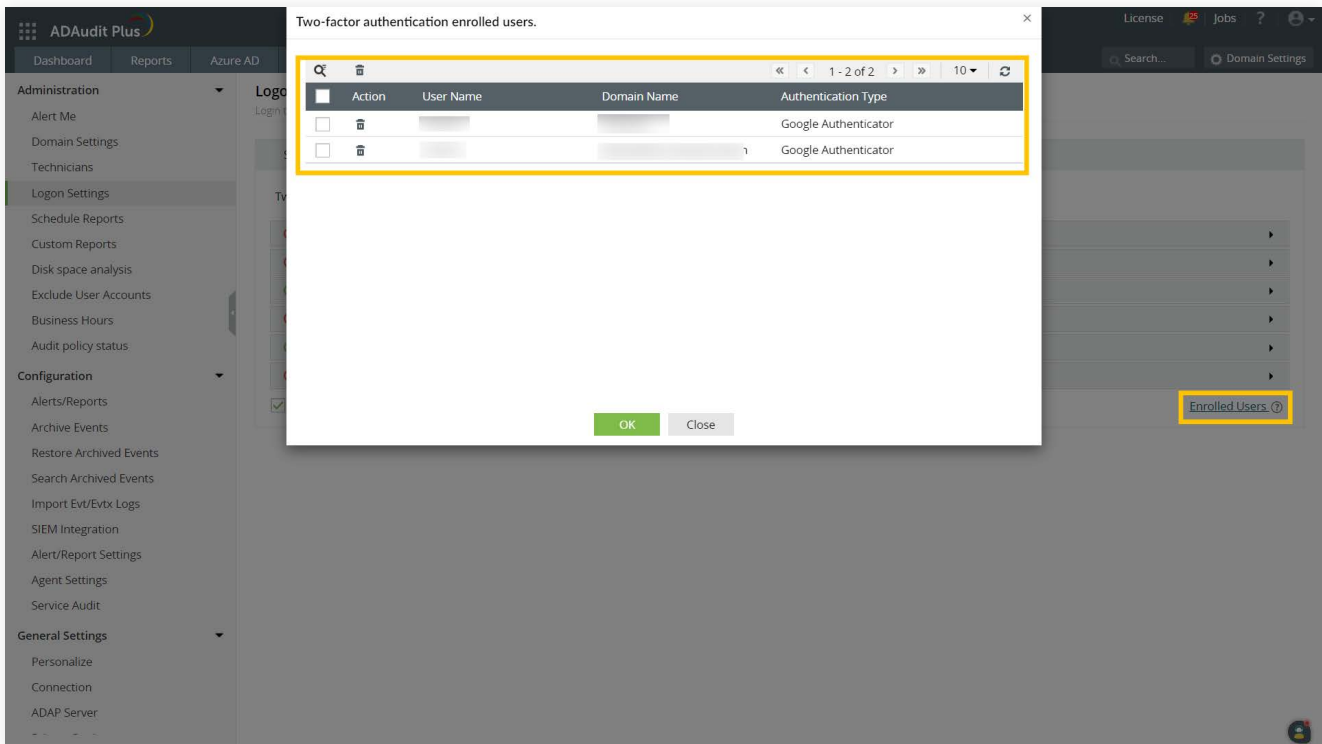
Note:

- > When 2FA is enabled, technicians will have to authenticate twice before accessing ADAudit Plus. Only the default admin user has the option to **skip** the 2FA process during login. 2FA cannot be mandated for the default admin account.
- > When multiple authentication modes are configured for 2FA, ADAudit Plus will request you to select a preferred authentication method.

2.2 Manage 2FA for users

As an admin, you can view and manage the authentication modes selected by users.

1. Under the **Two-Factor Authentication** tab, click **Enrolled Users**.
2. In the pop-up that appears, you can view the list of users enrolled in 2FA as well as the authentication mode each has chosen.
3. To remove a user, select them and click the **delete icon**.



2.3 Backup verification codes

Backup verification codes allow users to bypass the second factor of authentication when they don't have access to their phone or face issues with any of the authentication modes. When enabled, a total of five codes will be generated for the users to store safely. Once a code is used, it will become obsolete and cannot be used again. The users also have the option to generate new codes.

Enable backup verification codes

As an admin, you can enable backup verification codes to allow users to access and manage their backup verification codes in ADAudit Plus.

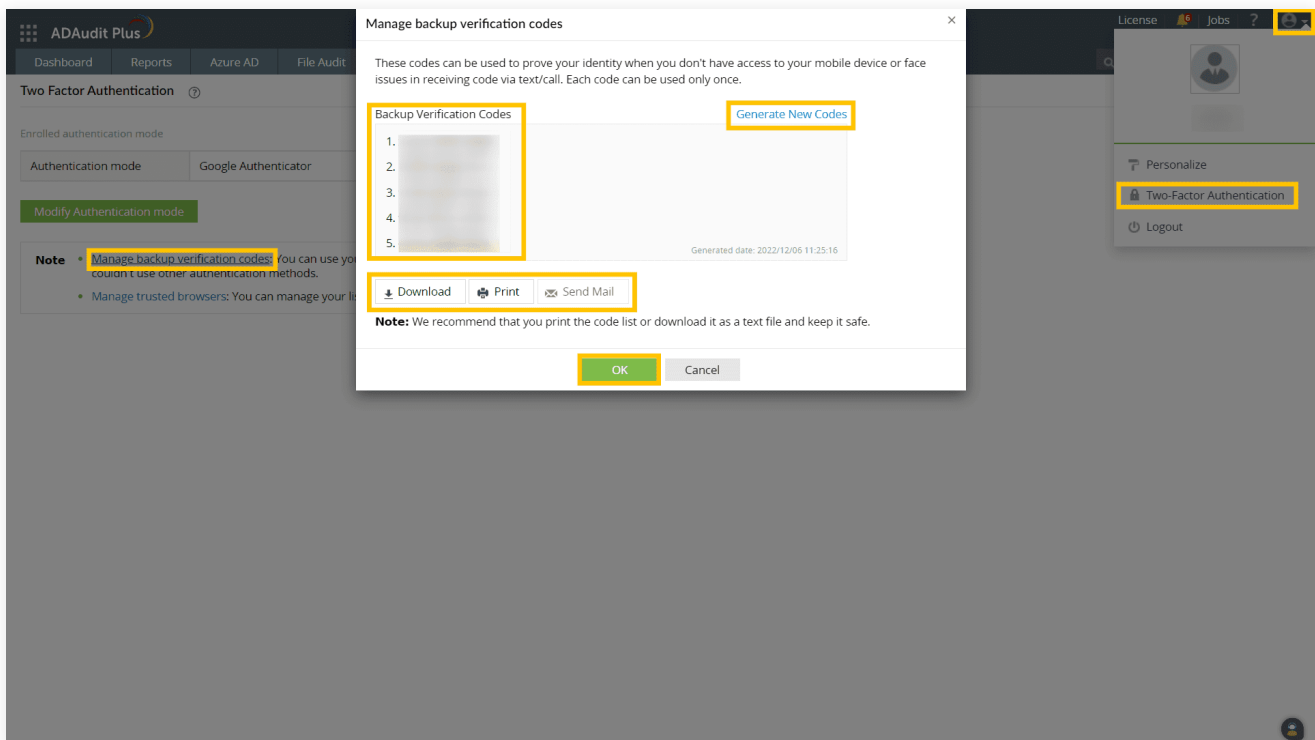
1. Log in to the **ADAudit Plus web** console using admin credentials.
2. Navigate to **Admin > Administration > Logon Settings**.
3. Under the **Two-Factor Authentication** tab, select the **Backup Verification Code** check box.

Manage backup verification codes

When backup verification codes are enabled, users can access and manage their backup verification codes by following the steps below.

Prerequisite: To generate backup verification codes, at least one of the authentication modes must have been successfully configured when logging in to ADAudit Plus.

1. Click the drop-down next to your profile picture in the top-right corner and select **Two-Factor Authentication**.
2. Click **Manage backup verification codes**. This will open the *Manage backup verification codes* pop-up, which will list the backup verification codes.
3. To generate new codes, click **Generate New Codes**.
4. Users can download, print, or email the codes and store them in a secure location.
5. Click **OK**.



Using backup verification codes during login

When users do not have access to their phone or face issues with any of the authentication modes, they can use a backup verification code to log in to ADAudit Plus.

1. To use a backup verification code during login, select one of the authentication modes and click **Next**.
2. Click the **Use backup verification codes** link. This will open the *Backup Verification Code* page.
3. Enter one of your backup verification codes and click **Verify Code** to log in to ADAudit Plus.

2.4 Manage trusted browsers

Users can manage their trusted browsers for 2FA by following the steps below:

1. Click the drop-down next to your profile picture in the top-right corner and select **Two-Factor Authentication**.
2. Click **Manage trusted browsers**.

3. Authentication modes

3.1 Email Verification

If you're enabling Email Verification as a 2FA method, you have to [configure the email server settings](#) first, and follow up with the steps to enable Email Verification in ADAudit Plus.

3.1.1 Steps to enable Email Verification in ADAudit Plus

1. Open the **ADAudit Plus web console**.
2. Navigate to **Admin > Administration > Logon Settings**, and select **Two-Factor Authentication**.
3. Under **Email Verification**, check **Enable Email Verification**.
4. Enter the **Subject** of the email (e.g. ADAuditPlus 2-Step Verification Code).
5. Enter the content of the email in the **Message** box using macros.
6. Click **Save**.

The screenshot shows the 'Logon Settings' page in the ADAudit Plus web console. The 'Two-Factor Authentication' tab is selected. Under the 'Email Verification' section, the 'Enable Email Verification' checkbox is checked. The 'Subject' field contains 'ADAuditPlus 2-Step Verification Code'. The 'Message' field contains a template email body with macros: 'Dear %userName% ,', 'Please enter this verification code: %confirmCode% to log in to ADAuditPlus.', and 'Regards, Administrator.'. The 'Save' button is highlighted.

3.2 SMS Verification

If you're enabling SMS Verification as a 2FA method, you have to [configure the SMS server settings](#) first, and follow up with the steps to enable SMS Verification in ADAudit Plus.

3.2.1 Steps to enable SMS Verification in ADAudit Plus

1. Log in to your **ADAudit Plus**' web console.
2. Navigate to **Admin > Administration > Logon Settings**, and select **Two-Factor Authentication**.
3. Under **SMS Verification**, check **Enable SMS Verification**.
4. Enter your content in the **Message box** using macros.
5. Click **Save**.

The screenshot shows the 'Logon Settings' page in ADAudit Plus. The 'Two-Factor Authentication' tab is active. A toggle switch for 'Two-Factor Authentication' is turned on. Below it, there are sections for 'Email Verification' and 'SMS Verification'. Under 'SMS Verification', the 'Enable SMS Verification' checkbox is checked. A text area for a message contains the text: 'Please enter this verification code: %confirmCode% to log in to ADAuditPlus.' At the bottom, there are 'Save' and 'Cancel' buttons. A 'Macros' link is also visible.

3.3 Google Authenticator

When Google Authenticator is enabled, users will be required to enter a code generated by the Google Authenticator app during the login process.

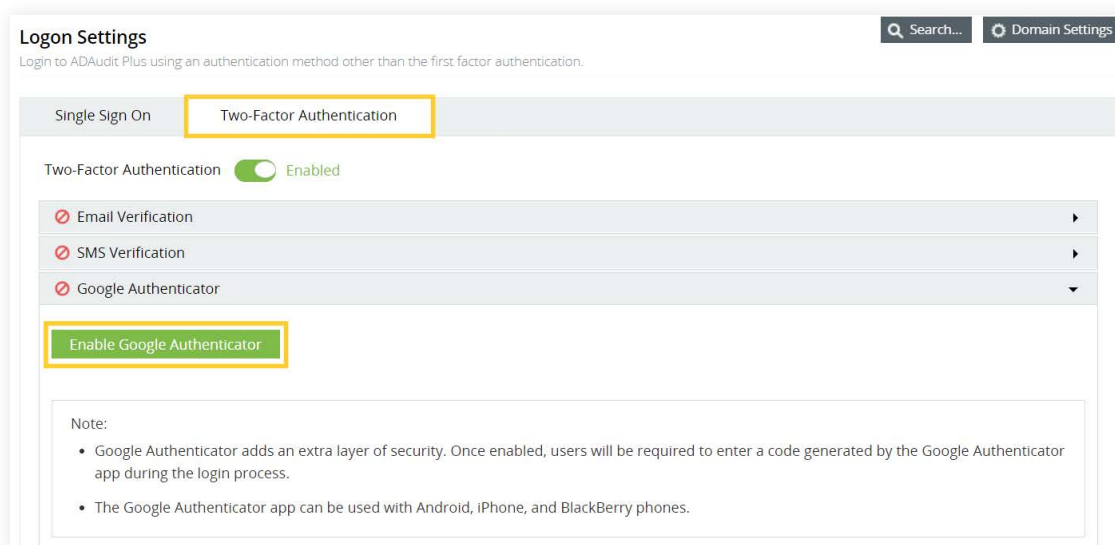
3.3.1 Steps to enable Google Authenticator in ADAudit Plus

Prerequisite:

Download and install Google Authenticator on your mobile device from [Google's website](#).

1. Open the **ADAudit Plus** web console.
2. Navigate to **Admin > Administration > Logon Settings**, and select **Two-Factor Authentication**.
3. Under **Google Authenticator**, click **Enable Google Authenticator**.

- When logging in to the **ADAudit Plus web console** for the first time, a **QR code** will be displayed. Open the **Google Authenticator app** on your mobile device, and scan the QR code to create an account for ADAudit Plus.
- When ADAudit Plus is added to the Google Authenticator app, a **secret code** will be generated automatically.
- Enter the **secret code** generated by the Google Authenticator app, and click **Verify** to access ADAudit Plus.



Note:

- > The Google Authenticator app can be used with Android, iPhone, and BlackBerry phones.

3.4 RSA SecurID

When RSA SecurID is enabled, users can use the RSA security console's security codes for identity verification while logging in to ADAudit Plus.

Note: When enabling RSA SecurID two-factor authentication in ADAudit Plus, contact RSA support or use your RSA login to get the RSA dependent libraries named authapi.jar and its compatible log4j jars, and paste them into the ADAudit Plus lib folder (<product_installation_path>/lib/).

3.4.1 Steps to add the ADAudit Plus server in the RSA admin console

- Log in to your **RSA admin console** (e.g., https://RSA machinename.domain DNS name/sc).
- Go to the **Access** tab, select **Authentication agent** from the drop-down, and click **Add new**.
- Create a **Client**, and set its type as **Standard Agent**.

4. Go to the **Home** tab, select **Manage Users**, and click **Add new**.
5. Create a user with a **last name** and a **user ID** similar to the SAM Account name in the domain.
6. After adding the user, click the **username**, and in the menu, select **Secure ID Token**.
7. Click **Assign Token**, select any one token, click **Assign**, and click **Save**.
8. Go to the **Authentication** tab, click **On Demand Authentication**, and select Enable Users.
9. Select the **User** from the list, and click **Enable for ODA**.
10. Select the associated pin and expiration date, and click **Save**.
11. Go to the **Access** tab, and select **Authentication agent** from the drop-down.
12. Click **Generate Configuration File**, select **Generate Config File**, and click **Download now**.
13. Extract the **AM_Config.zip** file to get the **sdconf.rec** file.

3.4.2 Steps to enable RSA SecurID in ADAudit Plus

1. Open the **ADAudit Plus web console**.
2. Navigate to **Admin > Administration > Logon Settings**, and select **Two-Factor Authentication**.
3. Under **RSA SecurID**, check **Enable RSA SecurID**.
4. Browse and select the **sdconf.rec** file downloaded from the RSA Authentication Manager Server.
5. Click **Save**.

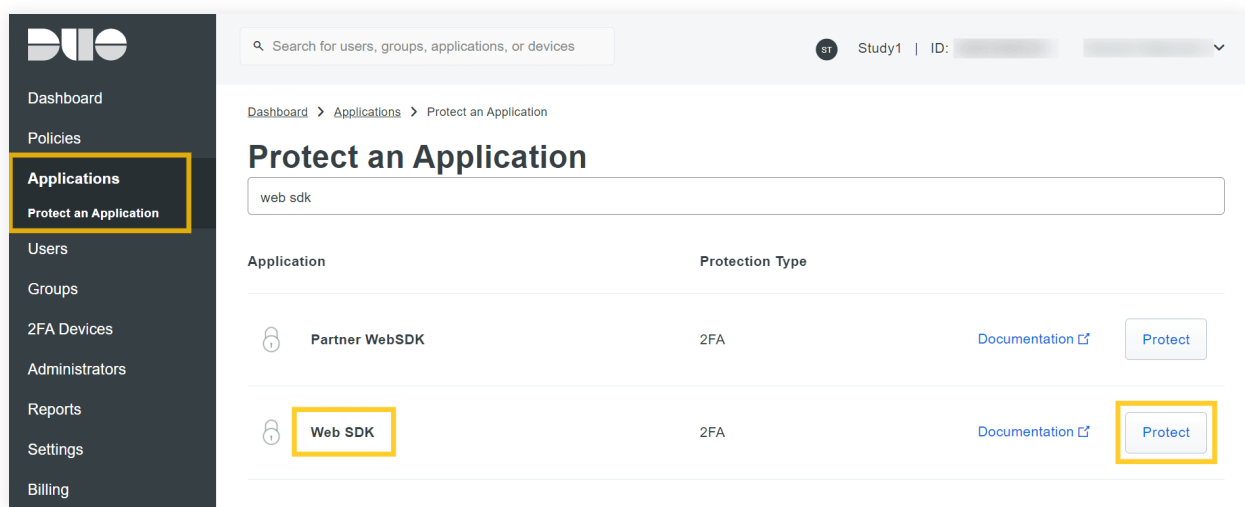
The screenshot shows the 'Logon Settings' page in the ADAudit Plus web console. At the top right, there are search and domain settings buttons. Below the title, a subtitle reads 'Login to ADAudit Plus using an authentication method other than the first factor authentication.' The main content area has two tabs: 'Single Sign On' and 'Two-Factor Authentication', with the latter selected. Under 'Two-Factor Authentication', a toggle switch is turned on and labeled 'Enabled'. Below this, there is a list of authentication methods: 'Email Verification', 'SMS Verification', 'Google Authenticator', and 'RSA SecurID'. The 'RSA SecurID' option is expanded, showing a checked checkbox for 'Enable RSA SecurID'. Below the checkbox, there is a 'Browse sdconf.rec file' button and a 'Browse' button. At the bottom of the configuration area, there are 'Save' and 'Cancel' buttons. A footer message states: 'To complete RSA SecurID configuration, choose sdconf.rec file from RSA Authentication Manager server. [Learn More](#)'.

3.5 Duo Security

When Duo Security verification is enabled, users can use the six-digit security codes generated by the Duo Mobile app to prove their identity.

3.5.1 Steps to retrieve security details from Duo Security

1. Log in to your Duo Security account.
2. Navigate to the **Applications** section in the left pane, and click **Protect an Application**.
3. Search for **Web SDK**, and click **Protect**.
4. Copy the Integration Key, Secret Key, and **API Host Name**.



3.5.2 Steps to enable Duo Security in ADAudit Plus

1. Open the **ADAudit Plus web console**.
2. Navigate to **Admin > Administration > Logon Settings**, and select **Two-Factor Authentication**.
3. Under **Duo Security**, check **Enable Duo Security**.
4. Enter the **Integration Key**, **Secret Key**, and **API Host Name** copied from Duo Security.
5. Choose the **Username Pattern**, and click **Save**.

Note:

If an enrolled user is deleted in Duo, it is essential to remove the user's enrollment in ADAudit Plus as well. Otherwise, the user will not be able to access ADAudit Plus without entering the Duo security code during login.

3.6 RADIUS Authentication

When RADIUS Authentication is enabled, end users can use their username and password from the RADIUS server to log in to ADAudit Plus.

3.6.1 Steps to integrate the ADAudit Plus server with RADIUS

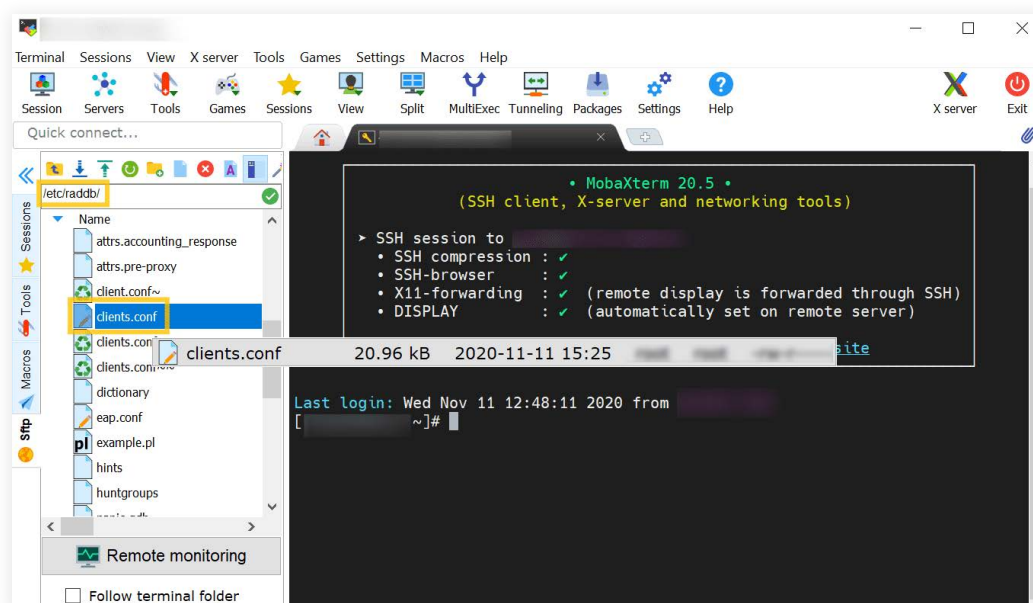
1. Access your **RADIUS server** and find the **/etc/raddb/** folder.
2. Select the **clients.conf** file, and enter the ADAudit Plus server details.

For example, if the name of the ADAudit Plus server is "ADAP" and its IP address is 172.21.193.194, add the following entry in the **clients.conf** file:

```
client ADAP{
  ipaddr = 172.21.193.194
  secret = Radius@123
  require_message_authenticator = no
  nastype = other
}
```

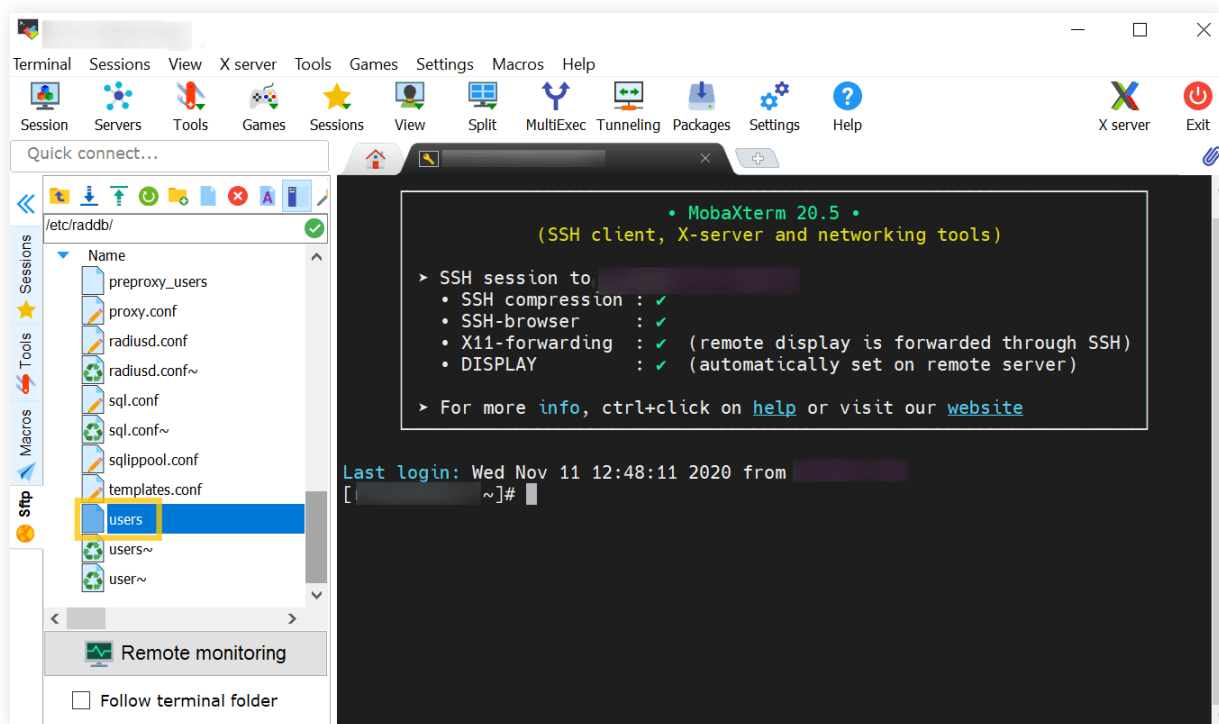
Note:

Here, "Radius@123" is the **Secret Key** that must be entered in the **ADAudit Plus web console** while configuring RADIUS.



3. Select **users**, and enter the user details.

Example format: "**domain_name\\user_name**" Cleartext-Password := "Test@123"



4. Restart the **Radiusd** service using shell script.

3.6.2 Steps to enable RADIUS Authentication in ADAudit Plus

1. Open the **ADAudit Plus web console**.
2. Navigate to **Admin > Administration > Logon Settings**, and select **Two-Factor Authentication**.
3. Under **RADIUS Authentication**, check **Enable RADIUS Authentication**.
4. Enter the hostname or IP address of the host where the RADIUS server is running in the **Server Name / IP Address** field.
5. Enter the port used for RADIUS server authentication in the **Server Port** field (by default, RADIUS is assigned the UDP port 1812).
6. Select the **Authentication Scheme** used to authenticate users. Choose from four protocols: Password Authentication Protocol (PAP), Challenge-Handshake Protocol (CHAP), Microsoft Challenge-Handshake Protocol (MSCHAP), or Microsoft Challenge-Handshake Protocol Version 2 (MSCHAP2).
7. Enter the **Secret Key** that you specified while adding ADAudit Plus server as a client in your RADIUS server.
8. Choose the **Username Pattern**, and set the **Request Time Out** limit.
9. Click **Save**.

Enable RADIUS Authentication

* Server Name / IP Address

* Server Port

Authentication Scheme

* Secret Key

Username Pattern

Request Time Out (Secs) seconds

4. Set a preferred authentication mode

When multiple authentication modes are enabled, you will be asked to choose which authentication mode you want to use to prove your identity during login. You can also set a preferred authentication service that will serve as your default authentication mode for 2FA.

Steps to select a preferred authentication mode:

1. Click the drop-down next to your profile picture in the top-right corner.
2. Select **Two-Factor Authentication**, and click **Modify Authentication mode**.
3. Choose your preferred authentication mode, and click **Next**.
4. Complete the verification process for the authentication service you choose to set as your preferred authentication mode for 2FA.

The screenshot shows the 'Two Factor Authentication' configuration page in the ADAudit Plus interface. The 'Enrolled authentication mode' section has a dropdown menu set to 'Google Authenticator'. Below this, a button labeled 'Modify Authentication mode' is highlighted with a yellow box. In the top right corner, a user profile dropdown menu is open, showing options for 'Personalize', 'Two-Factor Authentication' (highlighted with a yellow box), and 'Logout'. The page also includes a 'Note' section with links to 'Manage backup verification codes' and 'Manage trusted browsers'.

Note:

- > If you choose Google Authenticator as your preferred method, the next step will prompt you to scan a QR code and enter the code generated by the app in your smartphone, then click **Verify Code**.

5. Reset the second authentication factor for the default admin

If you have lost your authentication device or are unable to retrieve the verification code required to complete the authentication, you can reset the second authentication factor to access ADAudit Plus.

Note:

- > The authentication factor can only be reset for the default administrator account.

To reset the authentication factor:

1. Navigate to the <product_installation_path>\bin folder.
2. Find and run the resetAdminTFAEnrollment.bat file.
3. You can now log in to ADAudit Plus and reenroll for the second authentication factor by repeating the [steps to configure the authentication mode\(s\)](#).

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ADAudit Plus is a UBA-driven auditor that helps keep your AD, Entra ID, file systems (including Windows, NetApp, EMC, Synology, Hitachi, Huawei, Amazon FSx for Windows, Azure and QNAP), Windows Server, and workstations secure and compliant. ADAudit Plus transforms raw and noisy event log data into real-time reports and alerts, enabling you to get full visibility into activities happening across your Windows Server ecosystem in just a few clicks. For more information about ADAudit Plus, visit manageengine.com/active-directory-audit.

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