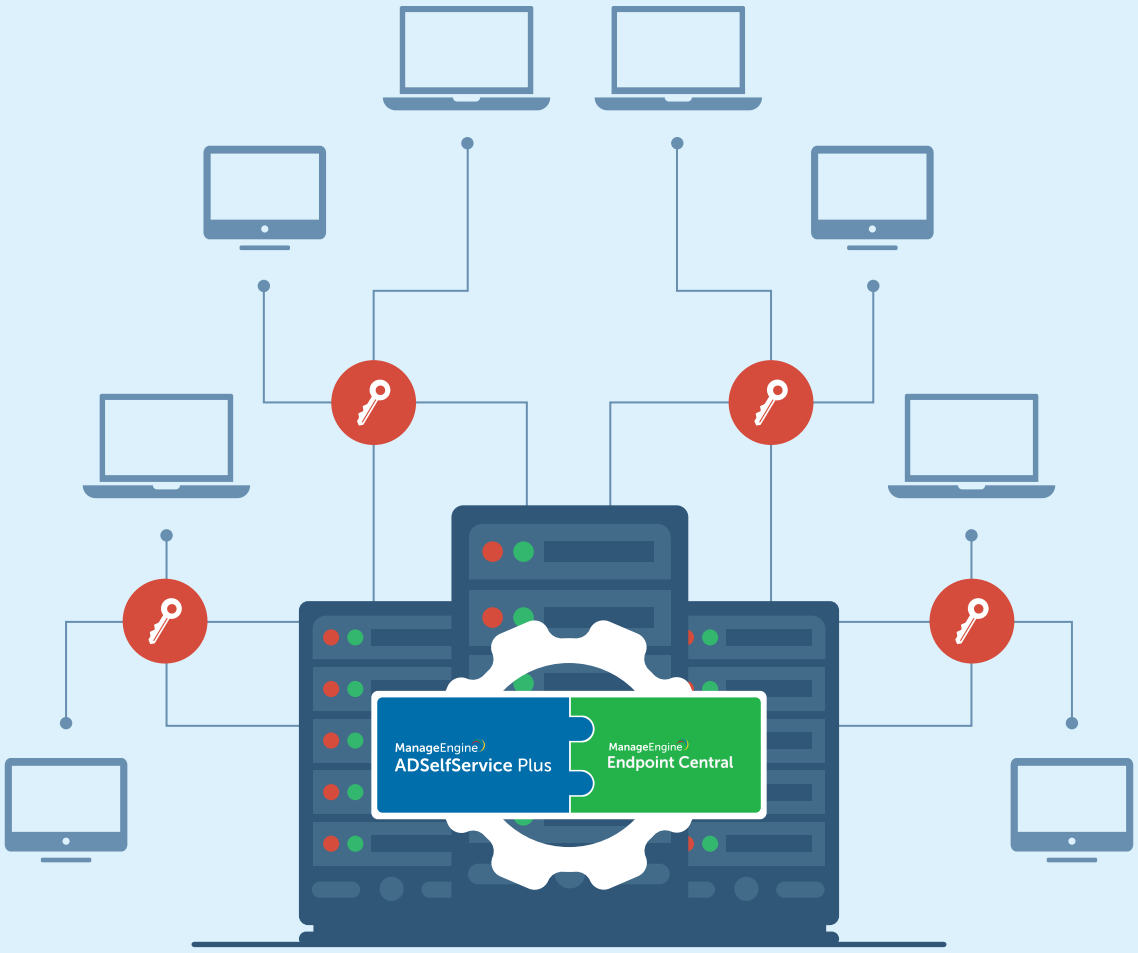
ManageEngine
ADSelfService Plus

Login agent installation via Endpoint Central



www.adselfserviceplus.com

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Document summary

This document will guide you through the steps involved in installing the ManageEngine ADSelfService Plus login agent (GINA/macOS/Linux agent) using ManageEngine Endpoint Central. This document is written with the assumption that you are a system administrator with basic knowledge of Endpoint Central.

System requirements

Windows servers

- Windows Server 2025
- Windows Server 2022
- Windows Server 2019
- Windows Server 2016
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008

Windows clients

- Windows 11
- Windows 10
- Windows 8.1
- Windows 8
- Windows 7
- Windows Vista

macOS clients

- macOS 15 Sequoia
- macOS 14 Sonoma
- macOS 13 Ventura
- macOS 12 Monterey
- macOS 11 Big Sur
- macOS 10.15 Catalina
- macOS 10.14 Mojave
- macOS 10.13 High Sierra
- macOS 10.12 Sierra
- OS X 10.11 El Capitan
- OS X 10.10 Yosemite

Linux clients

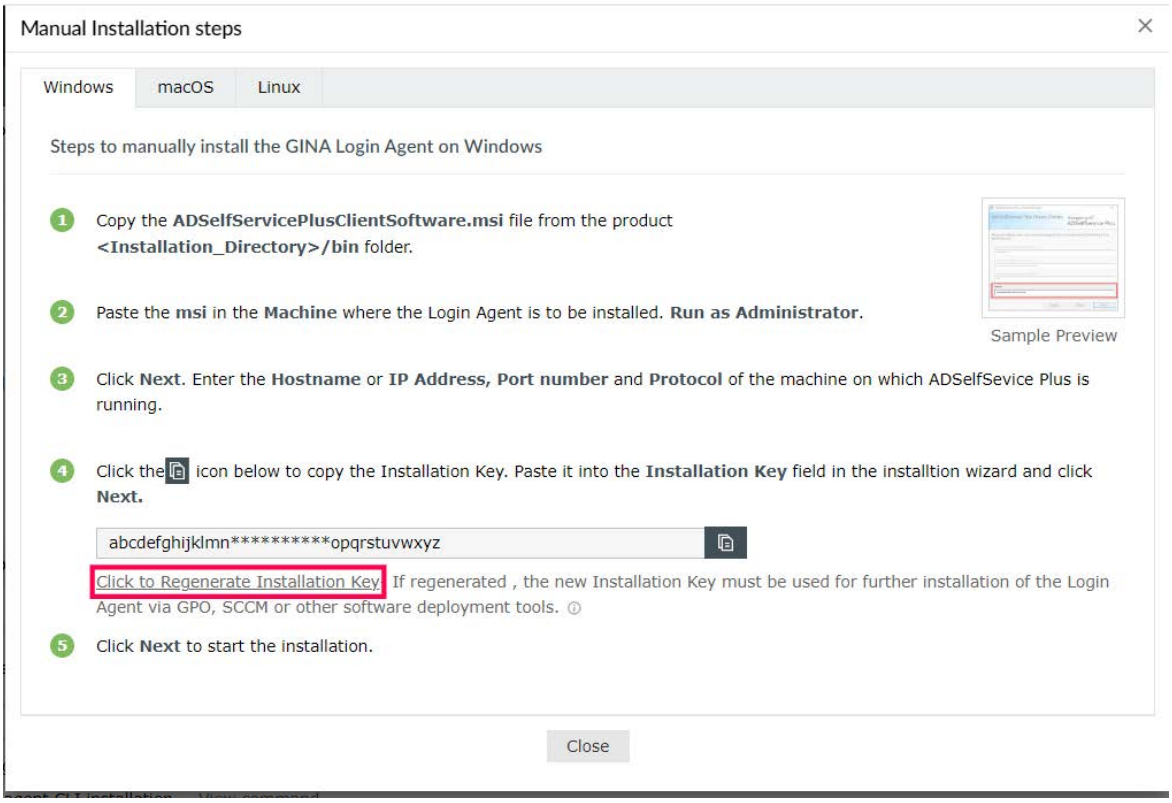
- Red Hat Enterprise Linux 8.x-9.x *
- Rocky Linux 8.x-9.x *
- Ubuntu-16.x-20.04.4
- Fedora - 27.x-31.x
- CentOS - 7.X

* Machines running Red Hat Enterprise Linux and Rocky Linux can be secured with machine login MFA. Self-service password resets and unlocks from the login screen are currently not supported for these platforms.

Steps for installing the login agent on Windows machines

Login agent Installation Key

The Installation Key links the ADSelfService Plus Server and agent securely. To generate a new Installation Key, login to ADSelfService Plus' Admin portal, and go to **Configuration > Administrative Tools > GINA /Mac/Linux (Ctrl+Alt+Del)**. Under the *Installation Help Guide* section, click on **Manual Installation Steps**. Regenerate the Installation Key using the link in Step 4 of the UI.



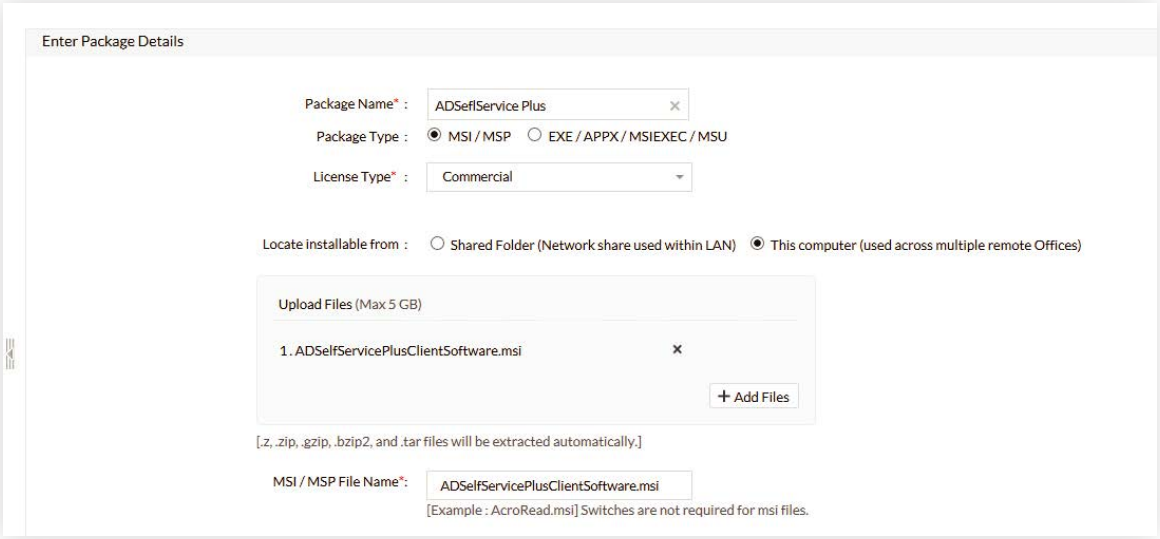
- Please treat the Installation Key like a password. It is sensitive information and must not be shared. Please regenerate a new Installation Key using the link in the product GUI if the current Installation Key is compromised.

- If a new Installation Key is regenerated, copy the command with the new Installation Key from the product admin portal and update the Installation Command field with the new command for all new installations.

- The generation of a new Installation Key will not affect the existing installations of the login agent.

Step 1: Creating an MSI package

- Log in to **Endpoint Central** as an admin.
- Navigate to **Software Deployment > Packages > Add Package** and select **Windows** or **Mac** based on your requirements.
- Skip the **Network Share** configuration settings.
- On the **Enter Package Details** page, enter a **Package Name,** and click the MSI/MSP radio button.



- Select **Commercial** from the **License Type** drop-down.
- In the **Local installable form** field, click **This computer (used across multiple remote offices).**
- Click **Add Files**. In the window that opens, select the **ADSelfServicePlusClientSoftware.msi** file located in the bin folder (by default, it's located at **C:\Program Files\ManageEngine\ADSelfService Plus\bin).**
- Back on the Package Details page, enter the name of the MSI file you have selected in the **MSI / MSP File Name** field.

- Log in to the ADSelfService Plus admin portal. Go to **Configuration > Administrative Tools > GINA/Mac/Linux (Ctrl+Alt+Del) > Installation Help Guide > GINA Login Using MCM (Microsoft Configuration Manager) > View Parameters.** Click **View Parameters** to view and copy the command.

- Remove the msiexec /i "*ADSelfServicePlusClientSoftware.msi*" at the beginning of the command as well as the *qb* at the end, and paste the modified command into the **MSI/MSP Properties for installation** field.

For example, if the MCM command in the UI is in this format:

msiexec /i "ADSelfServicePlusClientSoftware.msi" SERVERNAME=abc.selfservice.com" PORTNO="443" INSTALLATION_KEY="19d82629b4e540fc873df8775d3630cb" BUTTONTEXT="Reset Password / Unlock Account" BYPASS="true" FRAMETEXT="Can't login? Please click on Reset Password/Unlock Account button to reset your password or unlock your account" GINAHOSTEXCLUDE="okta,onelogin" MFAENROLLMENTWINDOWTITLE="Multi-Factor Authentication - Enrollment" MFAWINDOWTITLE="Multi-Factor Authentication" PPE_POPUP="true" PROD_TITLE="ADSelfService Plus" RESTRICTBADCERT="false" SERVERUNREACH="This action requires you to be verified with MFA. Please make sure the ADSelfService Plus server is reachable, has a proper SSL certificate, and connected to the domain controller. " SHOWADSSPLINK="true" SHOWADSSPTILE="true" WINDOWSLOGONTFA="true" MACHINEMFAUSAGESCENARIO="31"

then remove the msiexec /i "ADSelfServicePlusClientSoftware.msi" at the beginning and paste the modified command into the **MSI/MSP Properties for installation field**:

SERVERNAME=abc.selfservice.com" PORTNO="443" INSTALLATION_KEY="19d82629b4e540fc873df8775d3630cb" BUTTONTEXT="Reset Password / Unlock Account" BYPASS="true" FRAMETEXT="Can't login? Please click on Reset Password/Unlock Account button to reset your password or unlock your account" GINAHOSTEXCLUDE="okta,onelogin" MFAENROLLMENTWINDOWTITLE="Multi-Factor Authentication - Enrollment" MFAWINDOWTITLE="Multi-Factor Authentication" PPE_POPUP="true" PROD_TITLE="ADSelfService Plus" RESTRICTBADCERT="false" SERVERUNREACH="This action requires you to be verified with MFA. Please make sure the ADSelfService Plus server is reachable, has a proper SSL certificate, and connected to the domain controller. " SHOWADSSPLINK="true" SHOWADSSPTILE="true" WINDOWSLOGONTFA="true" MACHINEMFAUSAGESCENARIO="31"

Note 1: The full list of all the parameters that can be used during installation of the login agent is given in the tabular column below. If you want the login agent on your machines to have the default layout, only enter the default command shown above; otherwise, you can customize it with any of the other parameters.

Note 2: The starred (*) parameters are applicable only in cases where the server is offline or unreachable. Otherwise, the enforced status will be decided in real time based on the policy configuration settings in the product.

PARAMETER NAME	MATCHING REGISTRY VALUE	DEFAULT PARAMETER VALUE	DESCRIPTION
SERVERNAME	ServerName	The server on which ADSelfService Plus is running (based on the Access URL configured)	Specifies the ADSelfService Plus DNS hostname to be contacted after GINA login agent startup during machine login or self-service password rest o account unlock.
PORTNO	PortNumber	The port number of the ADSelfService Plus server (based on the Access URL configured)	Defines the port number used by the ADSelfService Plus server.
SERVER CONTEXTPATH	ServerContext Path	None	The context path of the ADSelfService Plus server. To learn more about the context path, click here.
INSTALLATION_ KEY	InstallationKey	None	The installation key that links the ADSelfService Plus server and login agent securely.
BUTTONTEXT	ButtonText	Reset Password / Unlock Account	Determines whether MFA should be bypassed or not when the ADSelfService Plus server is unreachable during machine logins.
BYPASS	Bypass	FALSE	Determines whether MFA should be bypassed or not when the ADSelfService Plus server is unreachable during machine logins.
FRAMETEXT	FrameText	Can't logon? Please click the Reset Password/Unlock Account button to reset your password or unlock your account.	Specifies the text to be displayed as the description. (Applicable only for Windows XP).
GINAHOST-EXCLUDE	GinaHostExclude	okta, onelogin	Specifies the hosts to which a connection can be established from the login agent. By default, all hosts except the ADSelfService Plus server will be restricted. This parameter must be used if SAML authentication is enabled for MFA and third-party IdPs are configured.

MFAENROLLMENWINDOWTITLE	MFAEnrollmentWindowTitle	Multi-Factor Authentication - Enrollment	Defines the text that will be used as the title in the MFA enrollment window. Applicable only when enrollment is enforced for MFA for machine logins.
MFAWINDOWTITLE	MFAWindowTitle	Multi-Factor Authentication	Defines the title of the MFA window displayed when MFA gets prompted by the login agent.
PPE_POPUP	PpePopUp	TRUE	Determines whether password polic requirements must be displayed on the Ctrl+Alt+Del change password screen or not.
PROD_TITLE	ProductTitle	ADSelfService Plus	Specifies the title to be displayed when the login agent window opens during self-service actions or MFA.
RESTRICTBADCERT	RestrictBadCert	TRUE	Determines whether to restrict usage o expired, self-signed, or invalid SSL certificates during self -service actions vvand MFA, or not. **Note:** We strongly advise against setting the login agent to work even when the SSL certificate is invalid in your production environment, as it willseverely impact security. Please disable this only for testing purposes.
SERVERUNREACH	ServerUnreach	Server unreachable due to intermittent network connectivity or improper SSL certification, or as the Domain Controller configured in ADSelfService Plus is down. Please contact your administrator.	Defines the error message to be displayed if the server is unreachable during password reset, account unlock, or MFA.
SHOWADSSPLINK	ShowADSSPLink	TRUE	Determines the ADSelfService Plus link on the Ctrl-Alt-Del screen.
SHOWADSSPTILE	ShowADSSPTile	TRUE	Determines whether the Reset Password/ Account Unlock button is displayed as a credential tile on the login screen or not.
WINDOWSLO-GONTFA	WindowsLogonTFA	FALSE	Determines whether MFA for machine login has been enabled or not.

<table>
<tr>
<td>MACHINEMFAU-SAGESCENARIO*</td>
<td>MFAUsage ScenarioMask</td>
<td>5</td>
<td>Determines whether the MFA for machine login feature will be enabled for specific scenarios or not based on the value provided. Learn more.
<table>
<tr><th>Scenario where MFA is required</th><th>Corresponding Parameter Value</th></tr>
<tr><td>For machine login</td><td>1</td></tr>
<tr><td>For locked machines</td><td>2</td></tr>
<tr><td>For RDP server</td><td>4</td></tr>
<tr><td>For UAC</td><td>8</td></tr>
<tr><td>For RDP client</td><td>16</td></tr>
</table>
</td>
</tr>
</table>

Note: If you wish to enable MFA for multiple scenarios, you will have to mention the value of the sum of those scenarios in the **MACHINEMFAUSAGESCENARIO** parameter.

For instance, if you want to enable MFA for both logging in to a machine and unlocking a machine, add their respective values (1 + 2) and pass the result (3) as the parameter.

PARAMETER NAME	MATCHING REGISTRY VALUE	DEFAULT PARAMETER VALUE	DESCRIPTION
ISMACHINEMF-AENFORCED*	isMFAEnforced	FALSE	If set to true, MFA will be enforced for all users accessing the machines irrespective of their enrollment status, self-service policy membership, or ADSelfService Plus connectivity status.
SHOW_SELECTED_TILE	ShowSelectedTile	TRUE	If set to true, the machine will prompt for a password by default at the machine login screen. If not, the prompt for the last login method used to access the machine will be displayed by default.
WRAPPINGPRO-VIDER	WrappingProvider	None	The GUID of your third-party GINA/CP extension.

IMAGEPATH	GPO script parameter	Enter the file path of the BMP file to be used as the icon for the login agent. The filename should be *reset_icon.bmp*.
CUSTOMTITLEI-CONPATH	GPO script parameter	Specifies the network share or path of the icon file used as the favicon for the login agent. Ensure that the custom title icon is uploaded at **C:\\Windows\\ System32\\ ADSSPDesktop.ico.** The filename should be *ADSSPDesktop.ico.*

The following parameters pertain to the installation and customization of offline MFA:

PARAMETER NAME	MATCHING REGISTRY VALUE	DEFAULT PARAMETER VALUE	DESCRIPTION
OFFLINEMFA	OfflineMFA	FALSE	Specifies whether offline MFA is enabled or not.
LOCALE_ID	LocaleId	NONE	Specifies the display language used for some parts of the login agent.

LANGUAGE	KEY
Simplified Chinese	zh-cn
Japanese	ja
French	fr-fr
German	de-de
Turkish	tr
Spanish	es-mx
Polish	pl

OFFLINE_WEB_LOGO_NAME	OfflineWebLogo-Name	NONE	Specifies the filename and the format of the custom logo to be displayed during offline MFA. The filename must be in the format customLogo.png. The supported formats are JPG, JPEG, BMP, PNG, and GIF.
LOGOIMAGEPATH	GPO script parameter	NONE	Mentions the network share path of the custom logo used during offline MFA (this will be copied to C:\\Windows\\ System32\\ folder location).

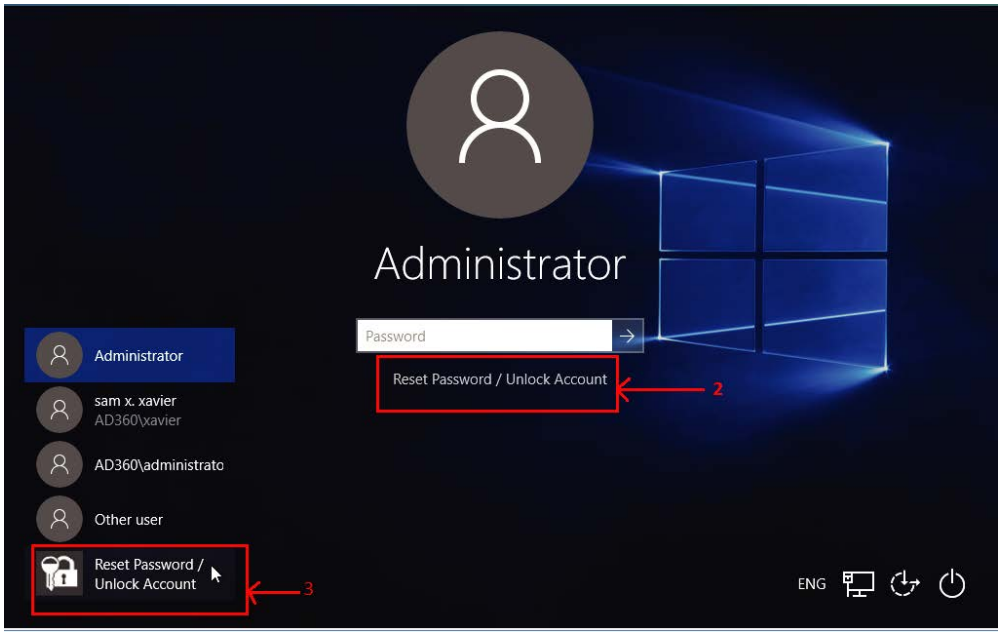


Figure 2. Button text and icon for Windows 8, Windows Server 2012, and above.

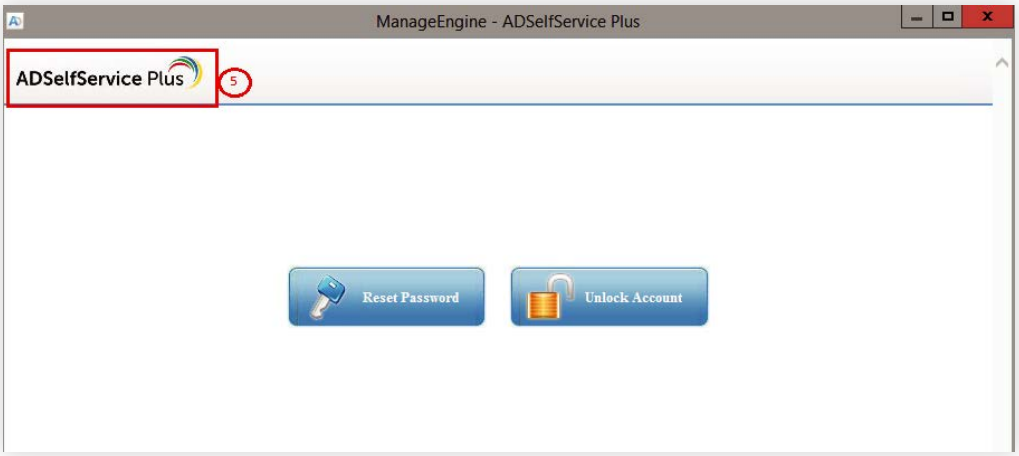


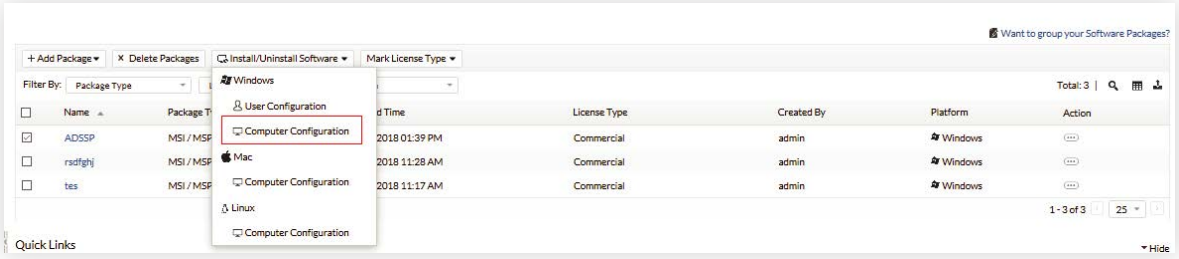
Figure 3. Product title text.

- Click **Add Package.**

  You have now created a software package that you can deploy to the computers in your domain.

Step 2: Deploying the MSI package

- Select the **package** you have created in the **Packages** tab. Select **Computer Configuration** from the **Install/Uninstall Software** drop-down.



- On the Install/Uninstall Windows Software page that opens, enter a **Name.**
- In the *Define Target* section, select the required domains and computers to which you'd like to deploy the **MSI package.**

- Click **Deploy Immediately.**

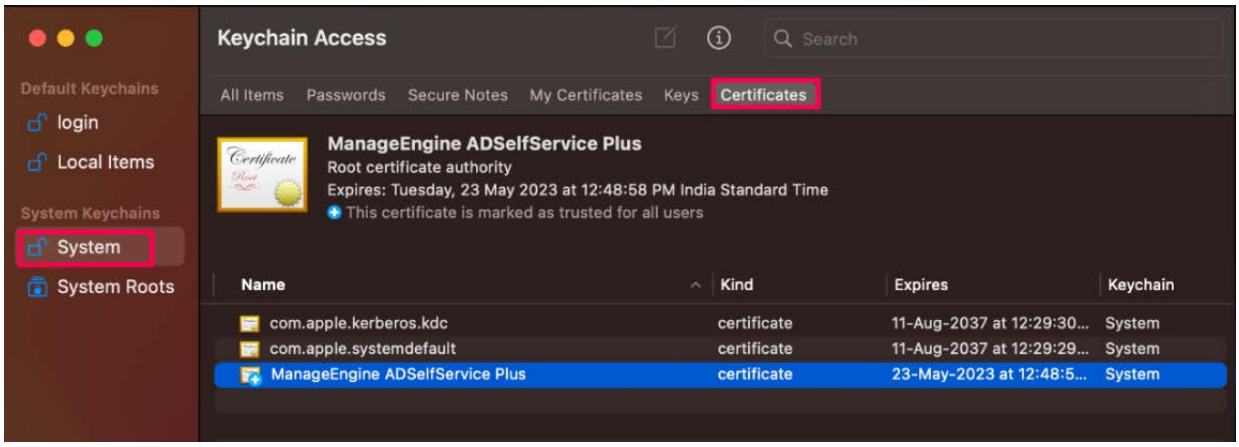
Note: If a new installation key is generated, copy the command with the new installation key from the ADSelfService Plus admin portal and update the *MSI/MSP Properties for installation field* with the new command for all new installations.

Steps for installing the login agent on macOS machines

Before you begin (mandated for macOS 13 and later)

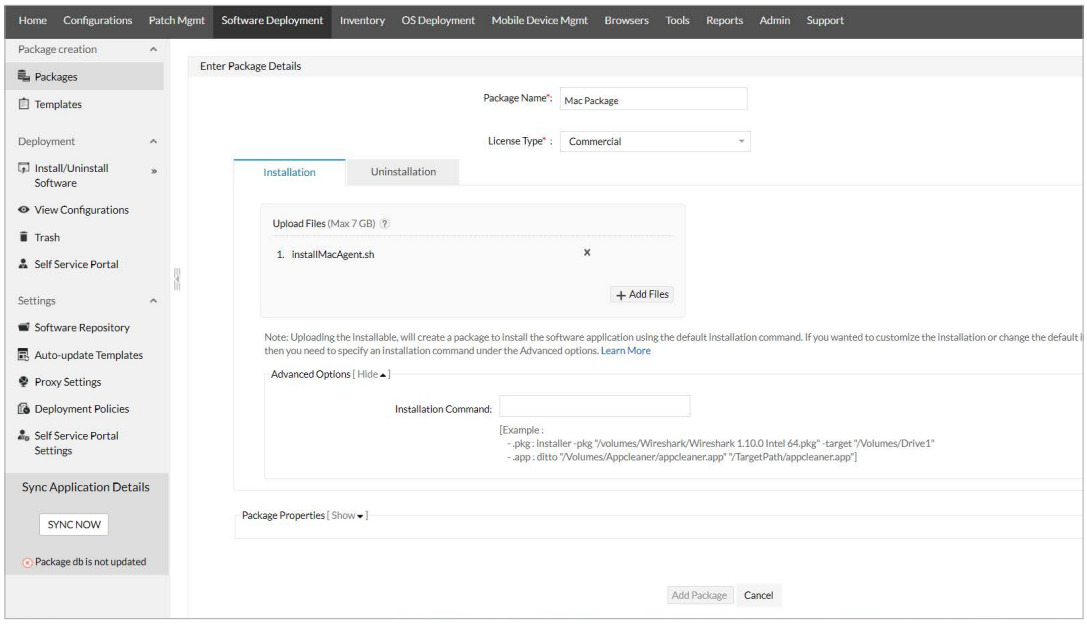
1. The Mac computer should be part of the Active Directory Domain configured in ADSelfService Plus' domain settings.
2. The technician who installs the macOS login agent must have admin rights over the Mac.
3. The ADSelfService Plus SSL certificate should be trusted in the **Keychain Access** app on macOS. This is mandatory for machines running macOS version 13 (Ventura) or later. To do this,

- Open the **Keychain Access** app on the Mac running macOS 13 (Ventura) or later versions.
- Download and include the ADSelfService Plus' CA certificate under the **Certificates** tab.
- Expand the trust section of the certificate and mark **When using the certificate** to **Always Trust.**



Step 1: Creating a macOS package

1. Log in to **Endpoint Central** as an admin.
2. Navigate to **Software Deployment > Packages > Add Package** and select **Windows** or **Mac** based on our requirements.



3. Enter a **Package Name.**
4. Select **Commercial** from the **License Type** drop-down.
5. Click on the **Installation** tab.
6. In the *Upload Files* section that appears, click **Add Files** and then select **Choose Files.**

7. In the window that opens, browse and select the **installMacAgent.sh** file located in the bin folder (by default, it's located at **C:\Program Files\ManageEngine\ADSelfService Plus\bin).** The **installMacAgent.sh** file will be uploaded.

8. Follow the steps above to upload the **ADSelfServicePlusMacLoginAgent.pkg** as well.

9. Copy the macOS CLI command from the product admin portal. Go to **Configuration > Administrative Tools > GINA/MAC/LINUX (Ctrl + Alt + Del) > Installation Help Guide > Mac Login Agent CLI installation > View Command** to find it. It's the pop-up that appears when clicking **View Command.**

pkg, serverName, portNumber and **installationKey** are mandatory parameters. The full list of all the parameters that can be used during installation of the macOS login agent is given below. If you want the login agent to have the default layout, only enter the default command copied from the product GUI; otherwise, you can customize it with any of the following parameters.

Note: The starred(*) parameters are applicable only in cases where the server is offline or unreachable. Otherwise, the enforced status will be decided in real time based on the policy configuration settings in the product.

PARAMETER	VALUES
ProdTitle	Enter the text to be displayed in the ADSelfService Plus window for password resets and account unlocks.
RestrictBadCert	Determines whether to restrict usage of expired, self-signed, or invalid SSL certificates during self -service actions and MFA, or not. **Note:** We strongly advise against setting the login agent to work even when the SSL certificate is invalid in your production environment, as it will severely impact security. Please disable this only for testing purposes.
LoginMFA	Enter “true” if you want MFA to be enabled during login. Enter “false” if you don't want MFA to be enabled.
BypassMFAServerUnreach	Enter “true” if you want to bypass login MFA when the ADSelfService Plus server is unreachable. If not, enter “false.”
ServerUnreachMsg	Enter the message to be displayed when the server is not reachable during endpoint MFA.
ShowRPUALink	Enter “true” if you want to display the Reset Password/Unlock Account link and allow users to reset their password or unlock their accounts. If you only want login MFA to be enabled, enter “false.”
ButtonText	Enter the text to be displayed on the Reset Password/Unlock Account button.

IsMFAEnforced*	If true, MFA will be enforced for all users accessing the machines irrespective of their enrollment status, self-service policy membership, or ADSelfService Plus connectivity status.
ImagePath	Enter the file path for the Reset Password/Unlock Account button image.

These parameters pertain to the installation and customization of offline MFA:

<table>
<tr><th>PARAMETER</th><th colspan="2">VALUES</th></tr>
<tr><td>offlineMFA</td><td colspan="2">This specifies whether or not offline MFA is enabled.
(Default value: false)</td></tr>
<tr><td rowspan="9">localeId</td><td colspan="2">This specifies the display language used for some parts of the login agent.

(Default value: NONE)</td></tr>
<tr><td>Key</td><td>Language</td></tr>
<tr><td>de</td><td>German</td></tr>
<tr><td>fr</td><td>French</td></tr>
<tr><td>ja</td><td>Japanese</td></tr>
<tr><td>pl</td><td>Polish</td></tr>
<tr><td>tr</td><td>Turkish</td></tr>
<tr><td>zh</td><td>Simplified Chinese</td></tr>
<tr><td>es</td><td>Spanish</td></tr>
<tr><td>offlineWebLogoName</td><td colspan="2">This specifies the file name and the format of the custom logo to be displayed during offline MFA. The file name must be in the format customLogo.png. The supported formats are JPG, JPEG, BMP, PNG, and GIF.</td></tr>
</table>

10. In **Endpoint Central**, click **Show** in the *Advanced Settings* section. In the section that appears, enter the copied command in the *Installation Command* field.

11. Click **Add Package**.

You have now created a software package that you can deploy to the computers in your domain.

Step 2: Deploying the package

1. In the **Packages** tab, select the package you have created.

2. Select **Computer Configuration** from the **Install/Uninstall Software** drop-down.

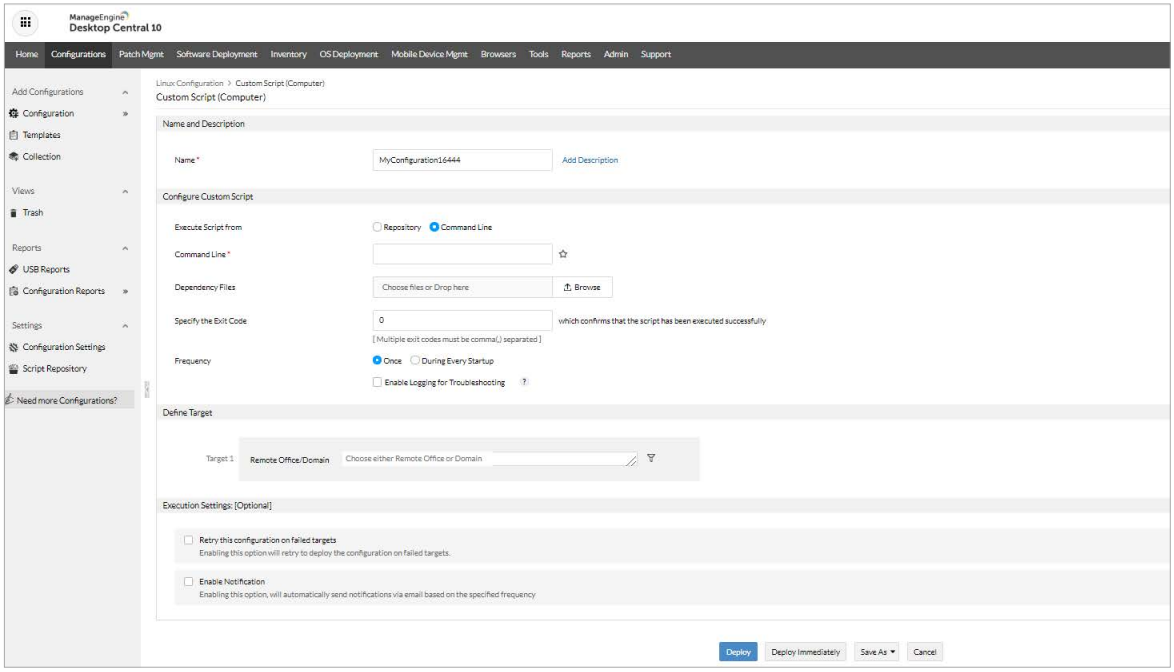
3. In the **Install/Uninstall Windows Software** page that opens, enter a **Name**. In the **Define Target** section, select the required domains and computers to which you'd like to deploy the MSI package.

4. Click **Deploy Immediately.**

Note: If a new installation key is generated, the admin will need to copy the command with the new installation key from the product admin portal as described in step 9 and update the Installation Command field with the new command for all new installations (step 10).

Steps for installing the login agent on Linux machines

1. Log in to Endpoint Central's admin portal. Navigate to **Configurations**. Under *Add Configurations*, hover over **Configurations** and select **Linux**.



2. On the **Add Configurations** page that opens up, click **Computer** under **Custom Script.**

3. In the **Custom Script (Computer)** section that opens, provide a **Name** for the configuration.

4. Under **Execute Script From,** select **Command Line.**

5. Copy the Linux CLI command from the product admin portal. Go to **Configuration > Administrative Tools > GINA/MAC/LINUX (Ctrl + Alt + Del) > Installation Help Guide > Linux Login Agent CLI installation > View Command** to find it. It's the pop-up that appears when clicking **View Command**.

pkg, serverName, portNumber and **installationKey** are mandatory parameters.The full list of all the parameters that can be used during installation of the macOS login agent is given below. If you want the login agent to have the default layout, only enter the default command copied from the product GUI; otherwise, you can customize it with any of the other parameters.

Note: The starred(*) parameters are applicable only in cases where the server is offline or unreachable. Otherwise, the enforced status will be decided in real time based on the policy configuration settings in the product.

PARAMETER	VALUES
ServerName	The hostname of the server in which ADSelfService Plus is installed.
PortNumber	The port number for ADSelfService Plus.
InstallationKey	The installation key that links the server and login agent securely.
Title	Enter the title to be displayed.
RestrictBadCert	Enter “true” if you want the login agent to work even when the SSL certificate applied is invalid. Enter “false” if you don't want the login agent to work in that situation. **Note:** We strongly advise against setting the login agent to work even when the SSL certificate is invalid in your production environment, as it will severely impact security. Please disable this only for testing purposes.
LoginMFA	Enter “true” if you want MFA to be enabled during login. Enter “false” if you don't want MFA to be enabled.
BypassMFA	Enter “true” if you want to bypass login MFA when the ADSelfService Plus server is unreachable. If not, enter “false.”
SelfService	Enter “true” if you want to display the Reset Password/Unlock Account link and allow users to reset their password or unlock their accounts. If you only want login MFA to be enabled, enter “false.”
LinkText	Enter the link text to be displayed.
serverUnreachMsg	Enter the message to be displayed when the server is unreachable.
forceReboot	Defines whether a machine reboot is required or not after the agent has been installed.
defaultDomain	Enter the default domain that the Linux machines are bound to.
isMFAEnforced*	If set to true, MFA will be enforced for all users accessing the machines irrespective of their enrollment status, self-service policy membership, or ADSelfService Plus connectivity status.

6. In **Endpoint Central**, click **Show** in the **Advanced Settings** section. In the section that appears, enter the copied command in the **Installation Command** field.

Note: If a new Installation Key is generated, the admin will need to copy the command with the new Installation Key from the product admin portal as described in step 5 and update the **Installation Command** field with the new command for all new installations (step 6).

7. In the **Dependency Files** field, click **Browse**. In the window that opens, select the **installLinuxAgent.sh** file located in the bin folder (by default, it's located at **C:\Program Files\ManageEngine\ADSelfService Plus\bin).** The installLinuxAgent.sh file will be uploaded.

8. Follow the steps above to upload the **ADSSPLinuxClient.tar.gz** and **ADSSPLinuxClient64.tar.gz** files as well.

9. Specify the **Exit Code** as **0**.

10. In the **Define Target** section, select the domains and computers to which you'd like to deploy the MSI package.

11. Click **Deploy Immediately**.

If you need any further assistance or have any questions, send us an email at support@adselfserviceplus.com, or give us a call at +1.408.916.9890.
Visit: www.adselfserviceplus.com

Our Products

AD360 | Log360 | ADManager Plus | ADAudit Plus | RecoveryManager Plus | M365 Manager Plus

ManageEngine
ADSelfService Plus

ADSelfService Plus is an identity security solution to ensure secure and seamless access to enterprise resources and establish a Zero Trust environment. With capabilities such as adaptive multi-factor authentication, single sign-on, self-service password management, a password policy enhancer, remote work enablement and workforce self-service, ADSelfService Plus provides your employees with secure, simple access to the resources they need. ADSelfService Plus helps keep identity-based threats out, fast-tracks application onboarding, improves password security, reduces help desk tickets and empowers remote workforces. For more information about ADSelfService Plus, visit www.manageengine.com/products/self-service-password.

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