Self-Service Password Reset 1.1

Dec 06, 2016

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Self-Service Password Reset enables end users to have greater control over their user accounts. Once Self-Service Password Reset is configured, if end users have problems logging on to their systems, they can unlock their accounts or reset their passwords to something new by correctly answering several security questions.

Resetting user passwords is an inherently security sensitive process. We recommend that you refer to the Secure configuration article to ensure that your deployment is correctly configured.

This version includes the following key enhancements:

- Support for blacklist configuration - IT administrators can add users and groups to a blacklist. Users and groups in the blacklist cannot use any of the Self-Service Password Reset features.
- Support for simplified Chinese - Besides English, French, Japanese, and Spanish, simplified Chinese is now available for defining security questions.

Self-Service Password Reset contains three components:

- Self-Service Password Reset configuration console
- Self-Service Password Reset Service
- Security question enrollment in StoreFront

Self-Service Password Reset configuration console

- **Service configuration.** Configures the Self-Service Password Reset service, including the central store address, data proxy account, and Self-Service Password Reset account.
  - Central store address: Network share location for storing Self-Service Password Reset data.
  - Data Proxy Account: Communicates with the central store. The account requires read and write access to the central store.
  - Self-Service Password Reset account: Used to unlock the account and reset the password.

- **User configuration.** Configures which user/group/OU can use the Self-Service Password Reset feature, and specifies the license server address and default service address.
  - Name user configuration: Defines the target user groups of the Self-Service Password Service, which can include users/groups/OUs from Active Directory.
  - License server address: You can use Self-Service Password Reset with only XenApp or XenDesktop Platinum edition. Minimum License Server version must be 11.13.1 or higher.
  - Select or deselect the Unlock and Reset features.

- **Identity verification.** Configures the questionnaire used for enrollment and to unlock or reset the password.
  - Add a question or group to the question store from which questionnaires are generated.
  - Select a question list from the question store that will be used for enrollment.
  - Export/import security questions or groups.

Self-Service Password Reset Service
The Self-Service Password Reset Service runs on a Web server and allows users to reset their Windows passwords and unlock their Windows accounts. The end users' requests are sent to this service through StoreFront.

**Security question enrollment in StoreFront**

Use StoreFront to allow users to enroll their answers to the security questions. When they are enrolled, they can reset domain passwords and unlock domain accounts. For more information, see [Self-Service Password Reset](https://docs.citrix.com) in the StoreFront documentation.
Known issues

Dec 14, 2016

The following known issues exist in this version.

- Attempts to add a user group in the user configuration wizard can fail and a message shows that the user group is in a blacklist. The message is incorrect. The attempt failed because you have already added this group.
  
  [#665520]

- You cannot add users and user groups that you just removed from the configuration wizard until you complete the removal process and close the wizard. Otherwise, an incorrect error message appears, stating that the users or groups are in a blacklist. As a workaround, complete the removal process and close the wizard, then reopen the wizard to add the users or groups back.
  
  [#665352]

- If you upgrade Self-Service Password Reset to Version 1.1 while the Version 1.0 console is open, no corresponding and the Version 1.0 open console cannot be used.
  
  [#664390]

- Attempts to upgrade or uninstall on Windows Server 2012 with only .Net Framework 4.5 installed, and attempts to upgrade or uninstall on Windows Server 2016 with only .Net Framework 4.6 installed can fail. The attempts fail because in-place upgrade or uninstalling on Windows Server 2012 and on Windows Server 2016 has a dependency on .Net Framework 3.5. As a workaround, install .Net Framework 3.5 before the upgrade and before you uninstall.
  
  [DNA-22761]

The following known issues exist in this version.

- After opening the Self-Service Password Reset console, you might not be able to pin it to the taskbar.
  
  [#646300]

  Workaround: Pin the console to the taskbar from the Start menu shortcut.

  
  [#648939]

  Workaround: Use the Start menu to locate Self-Service Password Reset.

- If the minimum password age in the the password policy in the default domain policy is the default (one day), and your users try to reset their passwords but reset fails (for example, they do not meet the complexity requirement), and they close the Password Reset wizard, they cannot reset the password again for 24 hours.
When using Citrix Receiver for Mac, the task button for enrollment appears the first time the user logs on to StoreFront. After logging off StoreFront and then on again, the task button does not appear.

Workaround:
1. Click the User name in the upper-right corner in the StoreFront store.
2. Click the **Refresh Apps** button in the drop-down menu.
3. Close Citrix Receiver for Mac, reopen it and the task button appears.

When migrating security questions from Single Sign-on Identity Verification to Self-Service Password Reset, the questions might not display in the Self-Service Password Reset console, even after clicking **Refresh**.

Workaround: Close the console and then reopen it.

Security questions in the questionnaire that contain the special character `&` do not display during enrollment in StoreFront.

Workaround: Do not include `&` in security questions.

Attempts to upgrade or uninstall on Windows Server 2012 with only .Net Framework 4.5 installed, and attempts to upgrade or uninstall on Windows Server 2016 with only .Net Framework 4.6 installed can fail. The attempts fail because in-place upgrade or uninstalling on Windows Server 2012 and on Windows Server 2016 has a dependency on .Net Framework 3.5. As a workaround, install .Net Framework 3.5 before the upgrade and before you uninstall.
System requirements

Dec 06, 2016

Important

Citrix does not support installation of any Self-Service Password Reset component on a domain controller. Deploy the Self-Service Password Reset components on dedicated servers.

This article describes the hardware and software requirements for your Self-Service Password Reset environment. This article assumes that each computer meets the minimum hardware requirements for the installed operating system.

Software

Computers in your Self-Service Password Reset environment might require the following supporting system software.

- **Windows 2016, Windows 2012 R2, Windows 2008 R2** (We recommend using Windows 2008 R2 only with a local file share and appropriate extra lock down. For more information, see [Create a central store](#).) - Required by Self-Service Password Reset Server.
- **Microsoft Windows Installer 2.0 or later** - Required by all.
- **Microsoft .NET Framework** - Required by Self-Service Password Reset Server.
  - 4.6.x (Windows 2016)
  - 4.5.2 (Windows 2012 R2)
  - 3.5.1 (Windows 2008 R2)
- **Internet Information Services (IIS)** - Required by Self-Service Password Reset Server.
  - IIS 10.0 (Windows 2016)
  - IIS 8.5 (Windows 2012 R2)
  - IIS 7.5 (Windows 2008 R2)

Self-Service Password Reset Server

- Self-Service Password Reset Component - Central store
- Supported Environment - SMB File Share
- Hardware Requirement - 30KB disk space per user

ASP.NET 3.5/4.X requirements

The ASP.NET component for your version of .NET framework on your Windows Server computer.

Security and account requirements

Before you install the Self-Service Password Reset Service, ensure that the appropriate accounts and components are available to support the service. Also, because the service uses secure HTTP (HTTPS), it requires a server authentication certificate for Transport Layer Security (TLS) communication with StoreFront.

**Server Authentication Requirement:**

Before you install the service, obtain a server authentication certificate for TLS communication from a Certificate Authority (CA) or your internal Public Key Infrastructure (PKI), if available.
Accounts Required for Service Modules:

Note: Ensure both accounts will not expire.

The Self-Service Password Reset Service requires these account types to read and write data as it operates in your environment:

- Data proxy account
- Self-service account

When different modules require the same type of account, you can use the same account for multiple modules, or you can specify different customized accounts for each module.

- **Data proxy account**
  
  Requires read and write access to the central store. For more information, see Create a central store.

- **Self-service account**
  
  Requires sufficient privileges to unlock and reset the password of the relevant users in User Configuration. For more information, Secure configuration.

**StoreFront**

- StoreFront 3.7
- StoreFront 3.8

**Citrix Receivers**

Supported:

- Citrix Receiver for Web
- Citrix Receiver for Windows
- Citrix Receiver for Linux
- Citrix Receiver for Mac (Requires StoreFront 3.8)

Not supported:

- Citrix Receiver for Chrome
- Mobile devices (not even with Receiver for Web)

**External use with NetScaler Gateway**

Unsupported
Install and configure

This article contains these sections:

Installation and configuration checklist
Installation and configuration order
Create a central store
Install and configure Self-Service Password Reset
Manage user configurations
Manage Identity Verification questions
Manage Identity Verification

Before you start the installation, complete this list:

<table>
<thead>
<tr>
<th>Step</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose the computers in your environment where you will install the software and prepare them for installation. See System requirements.</td>
</tr>
<tr>
<td>Install the TLS certificate and the accounts required for the service. See Security and account requirements.</td>
</tr>
<tr>
<td>Install the License Server. See License server documentation.</td>
</tr>
<tr>
<td>Create a central store. See Create a central store.</td>
</tr>
<tr>
<td>Install Self-Service Password Reset. See Install and configure Self-Service Password Reset.</td>
</tr>
<tr>
<td>Configure Self-Service Password Reset using the console. See Install and configure Self-Service Password Reset.</td>
</tr>
<tr>
<td>Configure Self-Service Password Reset on StoreFront. See Configure StoreFront.</td>
</tr>
<tr>
<td>Ensure your Self-Service Password Reset configuration is securely configured. See Secure configuration.</td>
</tr>
</tbody>
</table>

Install the SSL certificate and the accounts required for the service. See Security and account requirements.

Configure Self-Service Password Reset on StoreFront. See Configure StoreFront.

To install the service and run the Service Configuration wizard, your logon account must be a domain user and belong to the local administrator group on the server.

We suggest installing Self-Service Password Reset in this order:

1. Install or upgrade the License Server to a minimum of version 11.13.1.2. Download the License Server from https://www.citrix.com/downloads/licensing.html
2. Create your central store.
3. Install the Self-Service Password Reset.
4. Configure Self-Service Password Reset in the console.
5. Configure Storefront with the address of Self-Service Password Reset server.

For security reasons, we recommend you create the central store directly on the machine running the Self-Password Reset service. For deployments where more than one Self-Password Reset server is required, you can host the central store on a remote network share if the Self-Service Password Reset server and the server hosting the share both support SMB encryption.

This feature is available only on Windows Server 2012 R2 or Windows Server 2016; thus, we do not support Windows Server 2008 R2 when using a remote file share for the central store.

Create Data Proxy Account

Create a normal domain user to be used as the Data Proxy Account. Don't set a user from Domain Administrator/Local Administrator group as the Data Proxy Account.
Create a central store for Windows Server 2012 R2 or Windows Server 2016

When using Windows Server 2012 R2 or Windows Server 2016 for both the Self-Service Password Reset server and the central store, you can use a remote network share if configured as described in this section. Ensure that the Encrypt data access is selected and apply the guidance given in the Secure configuration.

1. To start the New Share wizard, open Server Manager. From the File and Storage Services details page, select Shares in the left pane, and click Tasks > New Share.
2. Choose Select Profile in the left pane, select SMB Share - Quick, and click Next.
3. Choose Share Location in the left pane. From the list, select the server on which to create the new share and the volume on which to create the new shared folder, and then click Next.
4. Choose Share Name in the left pane, type the name of your new Share name, for example CITRIXSYNC$, and click Next.
5. Choose Other Settings in the left pane, Select encrypt data, deselect Allow caching of share, and click Next.
6. To customize the Share permissions, choose Permissions in the left pane, and then select Customize permissions > Share.
   - Remove Everyone
   - Add Data Proxy Account with Full Control
   - Add Local Administrators with Full Control
   - Add Domain Admins with Full Control
7. To customize the NTFS permissions, choose Permissions in the left pane, select Customize permissions, click Disable inheritance, and select Convert inherited permissions into explicit permissions on this object.

8. To remove all users except CREATOR OWNER/Local Administrators/SYSTEM, on Customize permissions > Permissions, click Remove.
9. To modify CREATOR OWNER > Advanced permissions, click Edit and uncheck the following:
   - Full Control
   - Delete subfolders and files
   - Change permissions
   - Take ownership
10. Add a Data Proxy Account with Full Control.

11. Choose Confirmation in the left pane of the New Share wizard, review the currently selected settings for sharing, and click Create to begin the process of creating the new folder and then Close.

12. Create two subfolders under the CITRIXSYNC$ share folder: CentralStoreRoot and People.

Important: Ensure the Data Proxy Account has Full Control for these two subfolders.

Create a central store for Windows Server 2008 R2

Ensure you create the central store on the same server with the Self-Service Password Reset service, and continue to configure the Windows firewall to prevent remote access.

1. Create a local folder (CITRIXSYNC1) as the root of the file share, and then create two subfolders: CentralStoreRoot and People.

2. Set up a file share and grant sharing permissions:
   a. Right click the CITRIXSYNC1 folder, select Properties > Sharing > Advanced Sharing.
   b. Check the Share this folder box, and set the Share name to CITRIXSYNC1.
   c. To grant sharing permissions, click Permissions, remove all default users, and add Data Proxy Account with Full Control permission, Local Administrators Group with Full Control permissions, and Domain Admin Group with Full Control permissions.
   d. Click Caching and check No files or programs from the shared folder are available offline.

3. To grant security permissions, right-click the CITRIXSYNC1 folder and select Properties > Security.

4. To disable the inheritable permissions, click Advanced > Change Permissions, uncheck Include inheritable permissions from the object's parent, and then click Add in the warning window.

5. Click Edit to modify CREATOR OWNER permissions and uncheck the following:
   o Full Control
   o Delete subfolders and files
   o Change permissions
   o Take ownership
6. To remove the user group that is not required and add Data Proxy Account, click Edit on the Properties screen and delete all users except CREATOR OWNER/SYSTEM/Local Administrators, and then add Data Proxy Account with Full Control permission.


8. Enable Microsoft network client: Digitally sign communications (if server agrees) and Microsoft network server: Digitally sign communications (if client agrees).

9. To prevent remote access to the local central store, finish the Windows firewall configuration. For more information, see Configure the firewall settings.

The installation package is on the XenApp and XenDesktop installation media.

1. Start the Self-Service Password Reset installation wizard and follow the steps.
2. Click Start > All Programs > Citrix > Citrix Self-Service Password Reset Configuration to configure the Citrix Self-Service Password Reset Service.
3. When the console opens, follow these three basic procedures to configure the service.
Service Configuration

Before configuring the service, ensure you have created the central store, Data Proxy Account, and Self-Service account.

1. Select Service Configuration in the middle pane, and then click New Service Configuration in the right pane.
2. On the Central Store Location screen, specify the central store location, and click Next.
3. On the Domain Configurations screen, select a domain, and click Properties.
4. Specify the Data Proxy Account user name and password and the Self-Service Account user name and password, and click OK, Next, and Finish.

User Configuration

1. In the left pane, select User Configuration, and then click New User Configuration in the right pane.
2. On the Name User Configuration screen, define the Self-Service Password Service target user groups, add users/groups/OUs from Active Directory, and click Next.
3. On the Configure Licensing screen, specify the License Server, and click Next.
4. On the Configure Password Reset screen, use the check boxes to specify whether users can reset their Windows passwords and unlock their domain accounts without administrative intervention, specify the service port and address, and then click Create.

For more information about managing user configurations, see Manage user configurations.

Identity verification

1. In the left pane, select the Identity Verification node, and then click Manage Questions in the right pane.
2. On the Question-Based Authentication screen, select the default language, use the check box to enable or disable masking security question answers, and click Next.
3. On the Security Questions screen, click Add Question, type a question in the text box, click OK, and then click Next.
4. On the Questionnaire screen, click Add, and select a question. You can reorganize your questions and groups with the Move Up and Move Down buttons. When you are finished on this page, click Create and OK.

For more information about managing identity verification questions, see Manage Identity Verification questions.

A user configuration enables you to control the behavior and appearance of the interface when users log on to Storefront. Creating a new configuration is the final step you take before distributing Self-Service Password Reset to users in your environment. Note that you can edit existing user configurations at any time.

A user configuration is a unique collection of settings that you apply to users associated with an Active Directory hierarchy (Organizational Unit [OU] or an individual user) or an Active Directory group.

A user configuration consists of the following:

- Users associated with an Active Directory domain hierarchy [OU or individual user] or Active Directory group
- License Server
- Self-service features (account unlock and password reset)

Before you create your user configurations, ensure that you already created or defined the following:

- Central store
To create a user configuration
1. Click Start > All Programs > Citrix > Citrix Self-Service Password Reset Configuration.
2. In the left pane, select the User Configurations node.
3. From the Actions menu, click Add new user configuration.

To add users, OU, or Group

The Name User Configuration page of the User Configuration wizard allows you to associate the user configuration with the user.

User configuration association:

You have two choices: associate users according to Active Directory hierarchy (OU or individual user) or Active Directory Group. If necessary, you can associate the user configuration with a different hierarchy or group later, by clicking Edit user configuration in the Actions menu.

Associating user configurations to groups is supported only in Active Directory domains that use Active Directory authentication.

Select the OU or Users, or Group on the Name User Configuration page (from Add New User Configuration or Edit User Configuration wizard).

Note: We recommend you not include any privileged accounts (for example, Local Administrators or Domain Administrators) in the group of users for whom the Self-Service Password Reset account can reset passwords. Use a new dedicated group.

To configure licensing

The Configure Licensing page of the User Configuration wizard allows you to configure the License Server used by the Self-service Password Reset service.

Note: You can use the Unlock and Reset features only if you have XenApp or XenDesktop Platinum Edition.

Enter the License Server name and port number on the Configure Licensing page (from Add New User Configuration or Edit User Configuration wizard).

To enable Unlock or Reset features

Self-Service Password Reset allows users to reset their Windows password and unlock their domain accounts without administrator intervention. From the Enable Self-Service Password Reset page, you can select which feature to enable.

Select which feature you want to use: Unlock or Reset on the Enable Self-Service Password Reset page (from Add New User Configuration or Edit User Configuration wizard).

To configure a blacklist

IT administrators can add users and groups to the blacklist. Users and groups in the blacklist cannot use any of the Self-Service Password Reset features - including enrollment, account unlock, and password reset. Also, a user in the blacklist cannot see the TASK button on Citrix Receiver after logging on.

To configure the blacklist

1. Click Start > All Programs > Citrix > Citrix Self-Service Password Reset Configuration.
2. In the left pane, select User Configuration, and then click Blacklist Configuration in the right pane.
3. Use the Add and Remove buttons to add and remove users or groups to and from the blacklist.

The Identity Verification of the Citrix Self-Service Password Reset Configuration Console provides you with a central location for managing all security questions associated with identity verification, Self-Service Password Reset, and account unlock. You can customize your own security questions to the list of default questions and create question groups.

- If you edit the existing default questions after users register their answers, consider the meaning of the edited questions. Editing a question does not force a user reenrollment; but if you change the meaning of a question, users who answered that question originally might not be able to provide the correct answer.
- Adding, deleting, and replacing security questions after users are enrolled means that all users who were previously enrolled using an older set of questions cannot authenticate and reset their password until they reenroll. Users must answer the new set of questions when they open the Tasks in Receiver.
- Individual security questions can belong to multiple security question groups. When you create your security question groups, all questions you create are available for use with any security question group.

Use these steps to access the settings referenced in the following procedures:

1. Click Start > All Programs > Citrix > Citrix Self-Service Password Reset Configuration.
2. In the left pane, select the Identity Verification node.
3. From the Actions menu, click Manage Questions.

To set the default language

In most instances, users see security questions displayed in the language associated with their current user profile. If the language is not available, Self-Service Password Reset displays the questions in the default language that you specify.

1. Click Start > All Programs > Citrix > Citrix Self-Service Password Reset Configuration.
2. In the left pane, select the Identity Verification node.
3. From the Actions menu, click Manage Questions.
4. From the Default Language drop-down list on the Question-Based Authentication page, select the default language.

To enable security answer masking

Security answer masking provides an added level of security for your users when they register their security question answers or provide their answers during identity verification. When this feature is enabled, the users’ answers are hidden. During the answer registration process, these users are asked to type their answers twice to avoid typing and spelling errors. Users type their answers only once during identity validation because they are prompted to retry if there is an error.

Select Mask answers for security questions on the Question-Based Authentication page.

To create new security questions
You can create many different questions and designate a language for each question. You can also provide multiple translations of a single question. The Enrollment in Receiver presents the user with the questionnaire in the language that corresponds to the language settings of the user's profile. If the language is not available, Self-Service Password Reset displays the questions in the default language.

Note: When you specify a language for a security question, the question appears to users whose operating system settings are configured for that designated language. If the selected operating system settings do not match any of the questions available, users are shown your selected default language.

1. From the Language drop-down list on the Security Questions page, select a language and click Add Question. The Security Question dialog box appears.
2. Create the new question on the Security Question dialog box.

Important: You must use the Edit button to include the translated text of existing questions. If you select Add Question, you are creating a new question that is not associated with the original.

To add or edit text for existing questions

Adding, deleting, and replacing security questions after users are enrolled means that all users who were previously enrolled using an older set of questions cannot authenticate and reset their password until they reenroll. Users must answer the new set of questions when they open the Tasks in Receiver. Editing a question does not force a user reenrollment.

Important: If you are editing an existing question, be careful not to change the meaning of a question. This might cause a mismatch in user answers during reauthentication. That is, a user might provide a different answer that might not match the stored answer.

2. Select the question and click Edit.
3. Edit the question in the Security Question dialog box.

To create a security question group

You can create a number of security questions that your users answer to confirm their identities. Each question you add to the questionnaire must be answered by your users. However, you can also group these questions together in a security question group.

For example, putting your questions in a group enables you to add a group of six questions to your questionnaire, and allows your users to choose from that group of questions, answering, for example, three of the six. This gives your users flexibility in selecting questions and providing answers to be used for identity verification.

2. In the Security Question Group dialog box, name the group, select the questions, and set the number of questions the user must answer.

To edit a security question group

Select the security group you want to edit and click Edit on the Security Questions page. The Security Question Group dialog box appears, with a list of security questions available to be part of the group. The questions currently in the group are indicated by a check mark. Here you can edit the name of the group, add questions to the group, and select the number of questions from this group that a user must answer.

To add or remove the existing questionnaire

Add or remove security questions and question groups from the questionnaire. Move the questions up and down in the order to be presented to the user. If the questionnaire has changed, the user needs to be notified to do re-enrollment task after logging on Storefront.

1. Click Add on the Questionnaire page to add question or group to questionnaire.
2. Click Remove to remove a question from the questionnaire.
3. Click Move Up or Move Down to manage the questions presented to user.

With Self-Service Password Reset you can:

- Import or export the security questions.
- Revoking security question registration to a user.

To import or export the security questions

You can import or export the data of security questions and groups.

1. Click Start > All Programs > Citrix > Citrix Self-Service Password Reset Configuration.
2. In the left pane, select the Identity Verification node.
3. From the Actions menu, click one of the following:

Import the security questions
Specify the file location to import the data of security questions and groups.

Export the security questions
Specify the file location to export the data of security questions and groups.
Secure configuration

Dec 06, 2016

This article contains the procedures required to ensure that Self-Service Password Reset components are securely deployed and configured.

- Create a Domain user account to reset user password and unlock user account permission
- Configure the firewall settings

If you are using the Password Reset or Account Unlock features of Self-Service Password Reset, specify a Self-Service account during Service Configuration that is used by the self-service module to execute Password Reset and Account Unlock. Ensure the account has sufficient privilege, but we do not recommend using an account in the Domain Admins group for production deployments. The recommended account privileges are:

- Member of the domain
- Password reset and account unlock permission for the relevant domain users

In Active Directory Users and Computers, create the group or user account to have the rights to reset the user password and unlock user accounts.

1. In Active Directory Users and Computers, right-click the domain, and then click Delegate Control from the menu.
2. The Delegation of Control wizard displays. On the Welcome dialog box, click Next.
3. On the Users and Groups dialog box, click Add. Select the group in the list that you want to give the right to unlock accounts, and then click OK. On the Users and Groups dialog box, click Next.
4. On the Tasks to Delegate dialog box, click Create a custom task to delegate, and then click Next.
5. On the Active Directory Object Type dialog box, click Only the following objects in the folder > User objects, and then click Next.
6. On the Permissions dialog box, select the General and Property-specific check boxes. In the Permissions list, select the Read lockoutTime, Write lockoutTime, Reset Password, Change Password, Read userAccountControl, Write userAccountControl, Read pwdLastSet, and Write pwdLastSet check boxes, and then click Next.
7. On the Completing the Delegation of Control wizard dialog box, click Finish.

Because the Self-Service Password Reset server and the central storage server components manage user passwords, we strongly recommend that you deploy these components on a trusted network and that they are reachable only by specific trusted components. This section describes the steps needed to ensure you correctly configure the Windows firewall for these servers. We also recommend that you configure existing network infrastructure to ensure that these servers are isolated from untrusted network traffic.

After you complete those configurations in the deployment, the Self-Service Password Reset central store servers can be accessed only from Self-Service Password Reset servers using Server Message Block (SMB), and the Self-Service Password Reset servers are accessed only from the StoreFront servers with HTTPS connections.

Remote file share deployment for Windows 2012 R2
Environment

- Deploy the Self-Service Password Reset components on dedicated servers. Do not deploy them on the same servers as the existing StoreFront or Delivery Controller components; otherwise, the firewall configuration shown below might block the Storefront or controller traffic.

- There is no non-transparent HTTP/HTTPS proxy between StoreFront and Self-Service Password Reset server.

  If any non-transparent proxy exists between StoreFront and the Self-Service Password Reset server, configure the Self-Service Password Reset server to be accessed only from the proxy server in the firewall rules.

- The configurations in these procedures are based on the windows default firewall rules.

Configure the firewall for Self-Service Password Reset central store

After completing the configuration, the SMB service provided by the Self-Service Password Reset central store can be accessed only from the Self-Service Password Reset servers on the inbound, and the Self-Service Password Reset central store server can access service located on the corporate network only on the outbound.

1. Open the Server Manager, and from the Tools menu on the top navigation bar, select Windows Firewall with Advanced Security.

2. On Windows Firewall with Advanced Security, select Windows Firewall Properties in the middle pane. There are three firewall profiles - Domain, Private, and Public. Select the Domain Profile tab. Ensure the Firewall state is set to On, the Inbound connections are set to Block, and the Outbound connections are set to Allow.
3. Select the **Private Profile** and **Public Profile** tabs and ensure the **Firewall state** is set to **On**, and both the **Inbound connections** and **Outbound connections** are set to **Block**. Apply and save the changes.

4. From the **Inbound Rules**, choose **File and Printer Sharing (SMB-In)** and ensure this rule is **Enabled** and the **Action** is set to **Allow the connection**.
5. On **File and Printer Sharing (SMB-In) Properties**, change to the **Scope** tab, choose **These IP addresses**, and add all Self-Service Password Reset server IP addresses into the list. For example, Self-Service Password Reset server A (192.168.1.10) and Self-Service Password Reset server B (192.168.1.11).

6. On **File and Printer Sharing (SMB-In) Properties**, change to the **Advanced** tab, select the profiles **Domain**, **Private**, and **Public**, and save the changes of this rule.

7. Repeat this procedure on the **Inbound rules** for **File Server Remote Management (SMB-In)** and **File and Printer Sharing (NB-Session-In)**.

**Configure the firewall for the Self-Service Password Reset server**

After completing the configuration, the web service provided by the Self-Service Password Reset servers can be accessed only by the StoreFront servers using HTTPS, and the Self-Service Password Reset servers can access service located on the corporate network.

1. Open the Server Manager, and from the **Tools** menu on the top navigation bar, select **Windows Firewall with Advanced Security**.

2. On **Windows Firewall with Advanced Security**, select **Windows Firewall Properties** in the middle pane. There are three firewall profiles - Domain, Private, and Public. Select the **Domain Profile** tab. Ensure the **Firewall state** is set to **On**, the **Inbound connections** are set to **Block**, and the **Outbound connections** are set to **Allow**.
3. Select the Private Profile and Public Profile tabs and ensure the Firewall state is set to On, and both the Inbound connections and Outbound connections are set to Block. Apply and save the changes.

4. From the Inbound Rules, choose World Wide Web Services (HTTP Traffic-In), and ensure this rule is Enabled and the Action is set to Block the connection.

5. On World Wide Web Services (HTTP Traffic-In) Properties, change to the Advanced tab, select the profiles Domain, Private, and Public, and save the changes of this rule.

6. From the Inbound Rules, choose World Wide Web Services (HTTPS Traffic-In), and ensure this rule is Enabled and the Action is set to Allow the connection.
7. On **World Wide Web Services (HTTPS Traffic-In) Properties**, change to the **Scope** tab, choose **These IP addresses**, and add all StoreFront server IP addresses into the list. For example, StoreFront A (192.168.1.50) and StoreFront B (192.158.1.51).

8. On **World Wide Web Services (HTTPS Traffic-In) Properties**, change to the **Advanced** tab, select the profiles **Domain**, **Private**, and **Public**, and save the changes of this rule.

Local file share deployment for Windows 2008 R2

After completing the configuration, any SMB access from a remote client is blocked. The SMB file share can be accessed only from local, and the Self-Service Password Reset service is accessed only from the Storefront servers us an HTTPS connection.

1. Open the Server Manager, and from the **Tools** menu on the top navigation bar, select **Windows Firewall with Advanced Security**.

2. On **Windows Firewall with Advanced Security**, select **Windows Firewall Properties** in the middle pane. There are three firewall profiles - Domain, Private, and Public. Select the **Domain Profile** tab. Ensure the **Firewall state** is set to **On**, the **Inbound connections** are set to **Block**, and the **Outbound connections** are set to **Allow**.

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3. Select the **Private Profile** and **Public Profile** tabs and ensure the **Firewall state** is set to **On**, and both the **Inbound connections** and **Outbound connections** are set to **Block**. Apply and save the changes.

4. From the **Inbound Rules**, choose **New Rules** to create a new inbound rule. In the **New Inbound Rules Wizard**, select **Rule Type**, and choose **Port** as the type of the new rule, and then click **Next**.
5. In the **New Inbound Rules Wizard**, select **Protocol and Ports**, and choose **TCP**, choose **Specific local ports**, type **445** in the text box, and then click **Next**.

6. In the **New Inbound Rules Wizard**, select **Action**, choose **Block the connection**, and then click **Next**.

7. In the **New Inbound Rules Wizard**, select **Profile**, choose **Domain**, **Private**, and **Public**, and then click **Next**.

8. In the **New Inbound Rules Wizard**, select **Name**, enter a name and description, and then click **Next**.

9. From the **Inbound Rules**, choose **World Wide Web Services (HTTP Traffic-In)**, and ensure this rule is **Enabled** and the **Action** is set to **Block the connection**.

10. On **World Wide Web Services (HTTP Traffic-In) Properties**, change to the **Advanced** tab, select the profiles **Domain**, **Private**, and **Public**, and save the changes of this rule.

11. From the **Inbound Rules**, choose **World Wide Web Services (HTTPS Traffic-In)**, and ensure this rule is **Enabled** and the **Action** is set to **Allow the connection**.

12. On **World Wide Web Services (HTTPS Traffic-In) Properties**, change to the **Scope** tab. From the **Remote IP addresses** section, choose **These IP addresses**, and add all StoreFront server IP addresses into the list. For example, StoreFront A (192.168.1.13) and StoreFront B (192.158.1.14).

13. On **World Wide Web Services (HTTP Traffic-In) Properties**, change to the **Advanced** tab, select the
profiles **Domain**, **Private**, and **Public**, and save the changes of this rule.
Migrate data from the Single Sign-on central store

Dec 06, 2016

The Single Sign-on central store is a centralized repository used by Single Sign-on to store and manage user and administrative data. User data includes user credentials, security question answers, and other user-focused data. Administrative data includes password policies, application definitions, security questions, and other wider-ranging data.

You cannot migrate all data from the Single Sign-on central store to the Self-Service Password Reset central store. This table illustrates the data that can and cannot migrate.

<table>
<thead>
<tr>
<th>Cannot migrate</th>
<th>Can migrate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password policies - Not Supported</td>
<td>People folders containing enrollment Data</td>
</tr>
<tr>
<td>Application templates - Not Supported</td>
<td>Questionnaires used by customers</td>
</tr>
<tr>
<td>Application definitions - Not Supported</td>
<td></td>
</tr>
<tr>
<td>User configurations - Created on the Self-Service Password Reset console</td>
<td></td>
</tr>
<tr>
<td>Application groups - Not Supported</td>
<td></td>
</tr>
<tr>
<td>Single Sign-on Service data - Created on the Self-Service Password Reset console</td>
<td></td>
</tr>
</tbody>
</table>

Important
- Self-Service Password Reset does not support Active Directory as a central store, only network shares.
- Self-Service Password Reset supports data only from Single Sign-on 4.8 or 5.0.

To migrate data from the Single Sign-on central store

Before migrating your data, familiarize yourself with Self-Service Password Reset installation and configuration. For more information, see Install and Configure.

1. Create a new central store.
2. Install the Self-Service Password Reset service and console.
3. In the console, specify the new central store location.
4. Create a new user configuration and include the users who have Self-Service Password Reset on Single Sign-on.
5. Copy the Single Sign-on enrollment data and security questions to the new central store.

Note: Ensure the data proxy account has full control permission of all the copied files.
You need only two folders/files.

**Examples**

Copy all user's enrollment data:

\SSO-SERVER\citrixsync$\People

to

\SSPR-SVC\citrixsync$\People

Use this command:

```
Robocopy \SSO-SERVER\citrixsync$\People\ \SSPR-SVC\citrixsync$\People /e /xd QBA /Log+:copylog.txt /tee
```

Copy the security questions that are used by customers:

\SSOSERVER\citrixsync$\CentralStoreRoot\AdminConsole\QuestionBasedAuthentication2

  to

\SSPRSVC\citrixsync$\CentralStoreRoot\AdminConsole\QuestionBasedAuthentication2

Use this command:

```
Robocopy \SSO-SERVER\citrixsync$\CentralStoreRoot\AdminConsole\QuestionBasedAuthentication2\ \SSPR-SVC\citrixsync$\CentralStoreRoot\AdminConsole\QuestionBasedAuthentication2 /e /Log+:copylog.txt /tee
```

Now all users can unlock and reset using their Single Sign-on enrollment questions and answers.
Configure StoreFront to allow users to record answers to security questions

Dec 06, 2016

Configure StoreFront to allow users to enroll their answers to the security questions. When they are enrolled, they can reset domain passwords and unlock domain accounts. For more information, see the StoreFront documentation.

1. Configure Storefront Internet Information Services (IIS) to HTTPS.
2. Create a new deployment in Storefront.
3. In the right pane of the StoreFront management console, select Manage Authentication Methods > User name and Password. Choose Manage Password Options from the drop-down menu.
4. Choose when you want users to change passwords and click OK.
5. From the User name and Password drop-down menu, choose Configure Account Self-Service, select Citrix SSPR, and click Configure.
6. Specify whether or not users can reset their passwords and unlock their accounts with Self-Service Password Reset, add the Password Service account service URL, and click OK.

Note: You must configure the site to use the unified experience.

The next time the user logs on to Citrix Receiver or Citrix Receiver for Web, security enrollment is available. After clicking Start, questions are displayed to which the user must specify answers.