

6.3.6 Create Certificates for Smart Cards

Users in the Research and Development department are going to be issued smartcards to authenticate to the system and to send secure email. Additionally, you want to minimize the administrative burden associated with smartcard enrollment by allowing members of the Smartcard Enrollment group to enroll smartcard users.

In this lab, your task is to perform the following on the CorpCA_Card server:

- Copy the Smartcard User template using the following settings:
 - Compatibility Settings
 - Certification Authority: **Windows Server 2016**
 - Certificate recipient: **Windows 10 / Server 2016**
 - Template display name: **Research-Dev Smartcard User**
 - Template name: **ResearchDevSmartcardUser**
 - Validity period: Two years
 - Permissions: Add the **Research-Dev** group with the following permissions:
 - Read

Score Report

Start Lab

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- Permissions: Add the **Research-Dev** group with the following permissions:
 - Read
 - Enroll
 - Autoenroll
- Copy the Enrollment Agent certificate template using the following settings:
 - Compatibility Settings
 - Certification Authority: **Windows Server 2016**
 - Certificate recipient: **Windows 10 / Server 2016**
 - Template display name: **Research-Dev Enrollment Agent**
 - Template Name: **ResearchDevEnrollmentAgent**
 - Permissions: Add the **Smartcard Enrollment** group with the following permissions:
 - Read
 - Write
 - Enroll

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- Certificate recipient: **windows 10 / Server 2016**
- Template display name: **Research-Dev Enrollment Agent**
- Template Name: **ResearchDevEnrollmentAgent**
- Permissions: Add the **Smartcard Enrollment** group with the following permissions:
 - **Read**
 - **Write**
 - **Enroll**
- Issue both of the following templates on the CA:
 - **Research-Dev Enrollment Agent**
 - **Research-Dev Smartcard User**



To launch the Certificate Templates Console from within the Certification Authority, right-click **Certificate Templates** and select **Manage**. Auto-enrollment has already been enabled for the domain.

Score Report

Start Lab

Lab Report: 6.3.6 Create Certificates for Smart Cards

Your Performance

Your Score: 3 of 3 (100%)

Elapsed Time: 5 minutes 51 seconds

Pass Status: Pass

Required Score: 100%

Task Summary

Actions you were required to perform:

Create the ResearchDevSmartcardUser templateHide Details

- D Minimum supported CAs: Windows Server 2016
- D Minimum supported recipients: Windows 10 / Server 2016
- D Display name: Research-Dev Smartcard User
- D Name: ResearchDevSmartcardUser
- D Validity period: Two years
- D Assign Read, Enroll, and Autoenroll to the Research-Dev group

Create the ResearchDevEnrollmentAgent templateHide Details

- D Minimum supported CAs: Windows Server 2016
- D Minimum supported recipients: Windows 10 / Server 2016
- D Display name : Research-Dev Enrollment Agent
- D Name: ResearchDevEnrollmentAgent
- D Assign Read, Write and Enroll to the Smartcard Enrollment group

Issue the certificate templatesHide Details

- D Issue the Research-Dev Smartcard User template
- D Issue the Research-Dev Enrollment Agent template

Explanation

Complete this lab as follows:

1. Create the ResearchDevSmartcardUser template as follows:
 - a. In Hyper-V Manager, select **CORPSESERVER**.
 - b. Expand the window to view all virtual machines.
 - c. Right-click the **CorpCA_Card** server and select **Connect**.
 - d. From Server Manager, select **Tools > Certification Authority**.
 - e. Expand **CorpCA_Card-CA**.
 - £ Right-click **Certificate Templates** and select **Manage**.
 - g. Right-click the **Smartcard User** template and select **Duplicate Template**.
 - h. From the Certificate Authority drop-down list, select **Windows Server 2016**.
 - i. From the Certificate recipient drop-down list, select **Windows 10 / Server 2016**.
 - j. Select the **General** tab.
 - k. In the Template display name field, enter **Research-Dev Smartcard User**.
 - L Make sure that **ResearchDevSmartcardUser** appears in the Template name field.
 - m. In the Validity period field, enter **2**.
 - n. Select the **Security** tab to edit the template access control list (ACL).
 - o. Select **Add**.
 - p. In the Enter the object names to select field, enter **Research-Dev**.
 - q. Click **OK**.
 - r. Make sure **Research-Dev** is selected.

- s. Under Permissions for Research-Dev, select the *permissions* you wish to grant.
t Click **OK**.
2. Create the ResearchDevEnrollmentAgent template as follows:
 - a. Right-click the **Enrollment Agent** template and select **Duplicate Template**.
 - b. From the Certificate Authority drop-down list, select **Windows Server 2016**.
 - c. From the Certificate recipient drop-down list, select **Windows 10 / Server 2016**.
 - d. Select the **General** tab.
 - e. In the Template display name field, enter **Research-Dev Enrollment Agent**.
f Make sure that **ResearchDevEnrollmentAgent** appears in the Template name field.
 - g. Select the **Security** tab to edit the template access control list (ACL).
 - h. Select **Add**.
 - i. In the Enter the object names to select field, enter **Smartcard Enrollment**.
 - j. Click **OK**.
 - k. Make sure **Smartcard Enrollment** is selected.
l Under Permissions for Research-Dev, select the *permissions* you wish to grant.
 - m. Click **OK**
 - n. Close the Certificate Templates Console.
3. Issue the new templates as follows:
 - a. In the Certification Authority console, right-click **Certificate Templates** and select **New> Certificate Template to Issue**.
 - b. Select **Research-Dev Enrollment Agent**.
 - c. Press **Shift** and select **Research-Dev Smartcard User**.
 - d. Click **OK**.