Configure Kerberos Single-Sign-On Authentication in SWA

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Introduction

This document describes the steps to configure proxy users to have Single-Sign-On (SSO) authentication via Kerberos in Secure Web Appliance (SWA).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- SWA administration.
- Basic Active Directory administration.

Cisco recommends that you have these tools installed:

- Physical or Virtual SWA.

- Administrative Access to the SWA Graphical User Interface (GUI).
- Administrative Access to the Active Directory.

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Before You Begin

If the proxy client tries to access a website and is prompted to enter the credentials manually use these steps to troubleshoot.

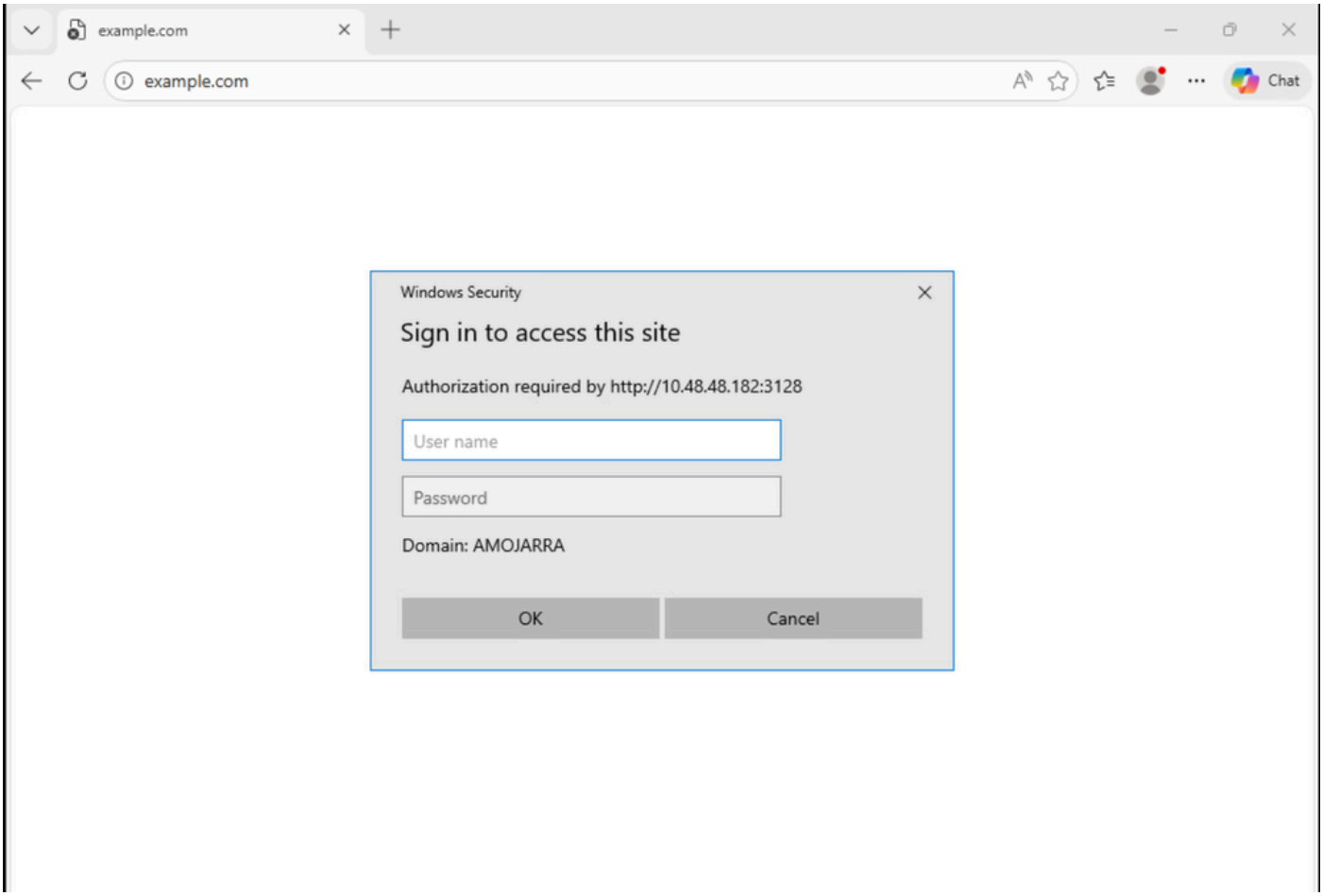


Image - User Authentication Prompt

Step 1. Check the Acesslogs related to the client.

Step 1.1. Log in to the CLI.

Step 1.2. Run **grep**.

Step 1.3. Select the number associated with the. accesslogs.

Step 1.4. In the **Enter the regular expression to grep** type the client IP address.

Step 1.5. Press **Enter** until you see **Do you want to tail the logs,** Type "**Y**" and press enter until you see the Accesslogs.

Step 1.6. Re produce the issue by trying to access any website form the Client PC.

Step 1.7. confirm the Identification Profile that the traffic is hitting.

In this Example, the Identification Profile is **Auth_ID**:

```
1776248928.353 0 10.48.48.195 TCP_DENIED/407 0 GET http://cisco.com/ - NONE/- - OTHER-NONE-Auth_ID-NONE
```

Step 2. Check the Identification Profile.

Step 2.1. Log in to GUI of the SWA.

Step 2.2. From the **Web Security Manager**, select **Identification Profiles**.

Step 2.3. Click on the name of the Identification Profile that the traffic was hitting.

Step 2.4. Confirm that that Authentication **Scheme** is not set to **Basic**.

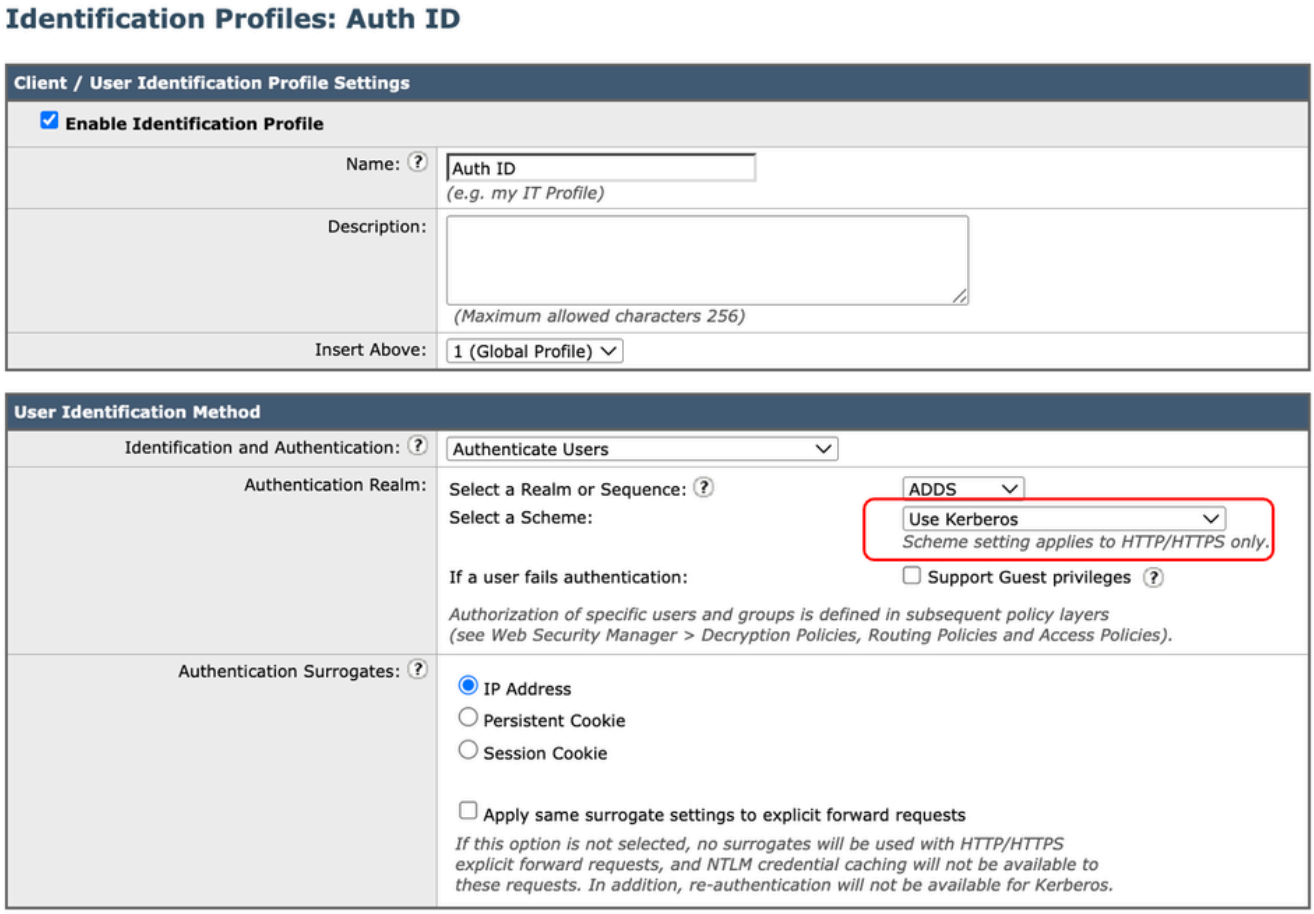


Image - Authentication Schema

Step 3. Test SWA and Active Directory Connectivity.

Step 3.1. From the SWA GUI navigate to Network and select Authentication.

Step 3.2. Click on the Authentication **Realm Name**.

Step 3.3. Click **Start Test** to review the SWA and Active directory connectivity status.

If no errors are found, verify the client PC configuration as described in this article.

Configure the Client PC

Use these steps to verify the Client PC configuration:

Steps	**Details**

Step 1. Local Intranet Sites

Step 1.1. In the start menu, type **Internet Option**, and press Enter.

Step 1.2. In the Internet Properties window, click on **Security** tab.

Step 1.3. Select **Local Intranet**.

Step 1.4. Click on the **Sites**.

Step 1.5. Make sure the **Automatically detect intranet network** checkbox is not selected.

Step 1.6. Select all these three options:

- Include all local (intranet) sites not listed in other zones
- Include all sites that bypass the proxy server
- Include all network paths (UNCs)

Step 1.7. Click **Advanced.**

Step 1.8. Enter the FQDN or IP address of your SWA and **Add** to the list.

Step 1.9. (Optional) Depends on your internal security policies, you can disable **Require Server Verification**.

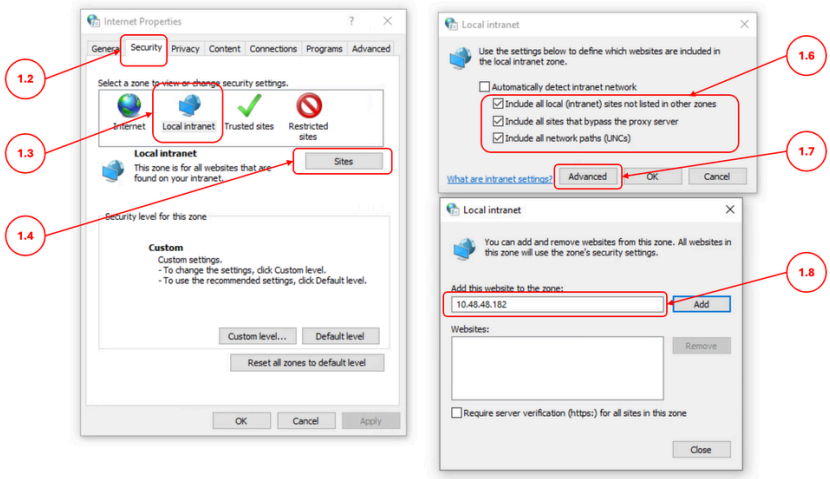


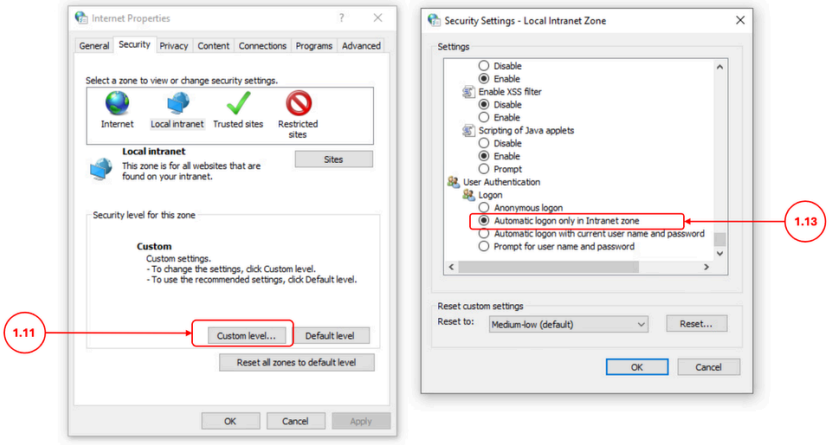
Image - Configuring the Local Interanet Sites

Step 1.10. Click **Close** and **OK**.

Step 1.11. In the Security tab, click **Custom level**.

Step 1.12. Scroll to **User Authentication**.

Step 1.13. Make sure the **Automatic logon only in Intranet zone** is selected.

	 *Image - Automatic Login for Intranet Users*
Step 2. Collect the Logs	If the Step 1, did not fixed the SSO authentication via Kerberos: **Step 2.1.** Change the SWA Auth logs to Trace and review the logs. **Step 2.2.** Add **[Auth-Method = %m]** as a custom field to the accesslogs. for more information kindly visit: Configure Performance Parameter in Access Logs. **Step 2.3.** Run a Packet capture filter for client IP and Active Directory IP address and confirm the Client PC is sending the Kerberos service ticket to the SWA.

Note: Make sure you configured the FQDN of the SWA in your browser proxy settings.

Related Information

- User Guide for AsyncOS 15.0 for Cisco Secure Web Appliance
- Configure Firewall for Secure Web Appliance
- Configure Packet Capture on Content Security Appliance
- Configure Performance Parameter in Access Logs
- Access Secure Web Appliance Logs
- Use Secure Web Appliance Best Practices - Cisco
- Bypass Authentication in Secure Web Appliance - Cisco