

Configure Internet Protocol Security (IPSEC)

Aim : To Configure IPsec on network devices to provide secure communication and protect against unauthorized access and attacks.

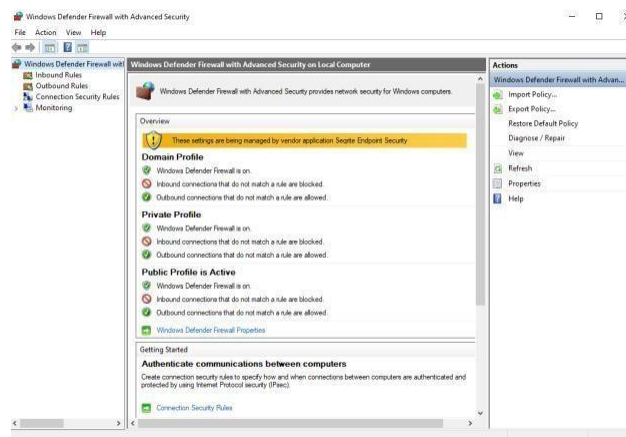
About this task:

Historian supports encryption based on Internet Protocol Security to secure traffic between various Historian components and collectors without the need to use VPN or other security protocols.

Procedure:

1. Run `wf.msc`.

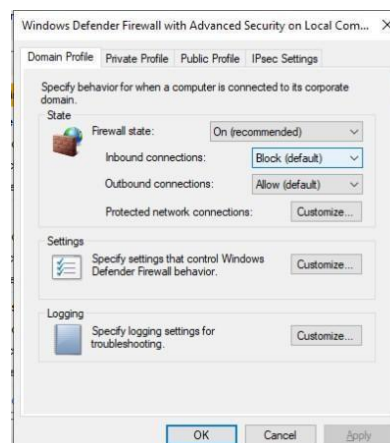
The **Windows Defender Firewall with Advanced Security** window appears.



2. Create a security method:

- a. Select **Actions > Properties**.

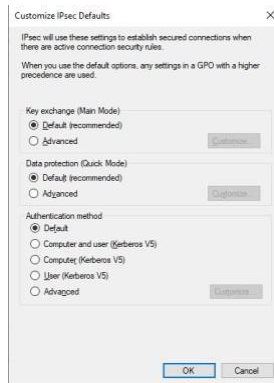
The **Windows Defender Firewall with Advanced Security on Local Computer** window appears.



Information and Network Security

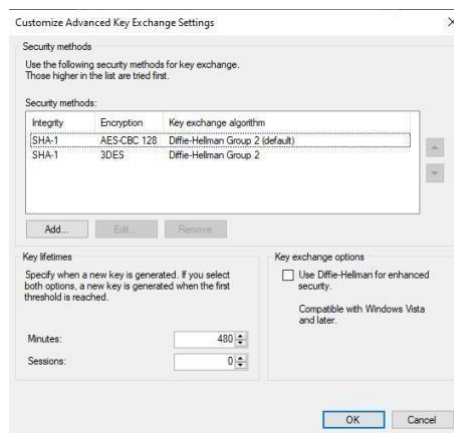
- b. Select **IPsec Settings > Customize**.

The **IPsec Defaults** window appears.



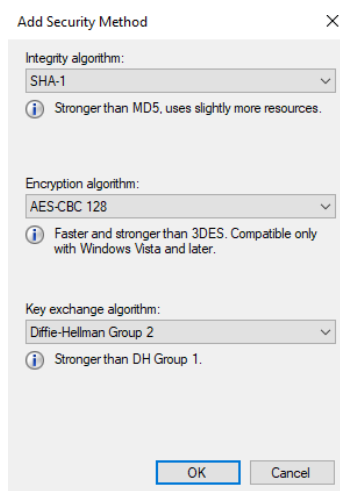
- c. Under **Key exchange (Main Mode)**, select **Advanced > Customize**.

The **Customize Advanced Key Exchange Settings** window appears.



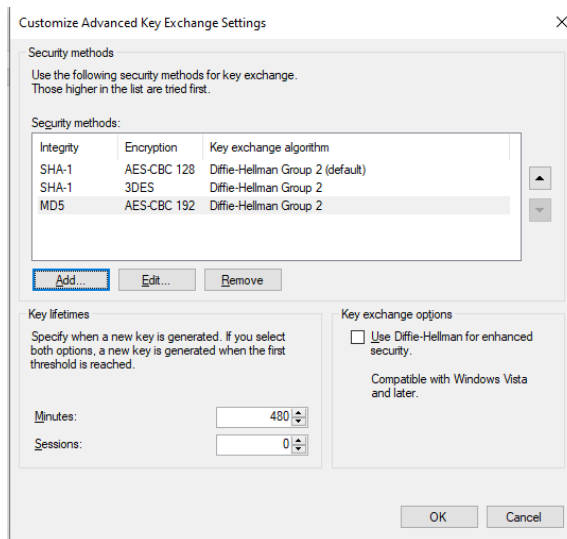
- d. Select **Add**

The **Add Security Method** window appears.

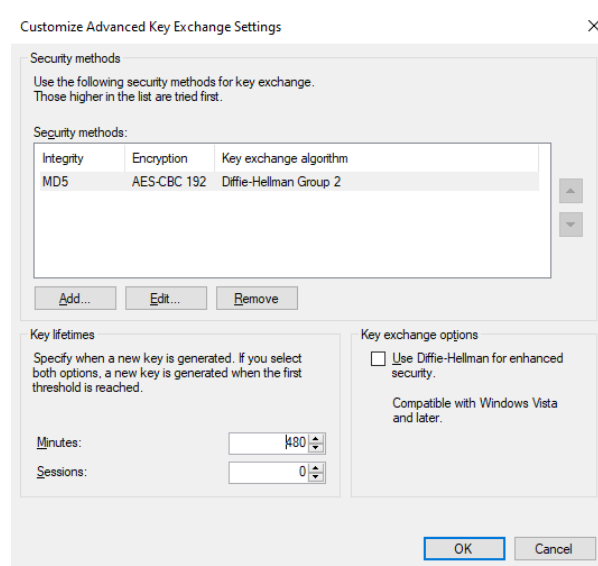


Information and Network Security

- e. Select the algorithms that you want to use for each purpose. The following image shows an example.



- f. Move the security method that you have added to the top of the list. We recommend that you remove the other methods.



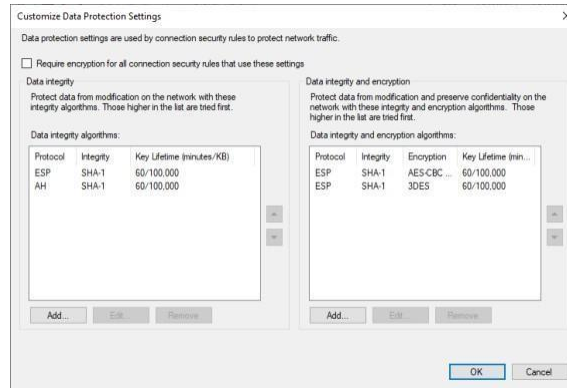
- g. Select **OK**.

3. Add integrity and encryption algorithms:

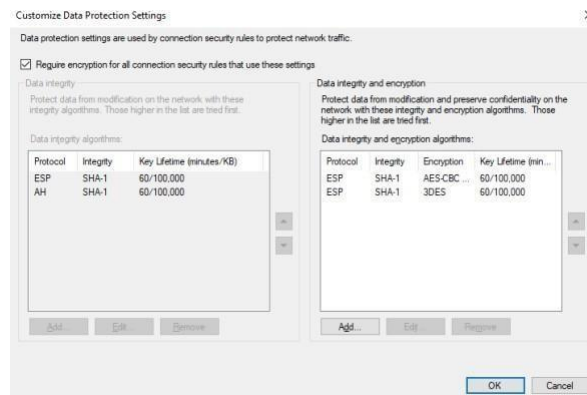
- a. In the **Customize IPsec Defaults** window, under **Data protection (Quick Mode)**, select **Advanced > Customize**.

The **Customize Data Protection Settings** window appears.

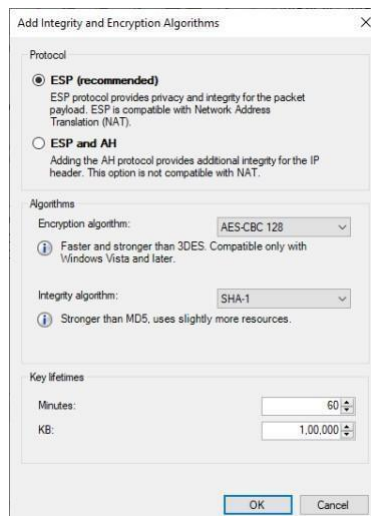
Information and Network Security



- b. Select the **Require encryption for all connection and security rules that use these settings** check box.



- c. Under **Data integrity and encryption**, select **Add**.
The **Add Integrity and Encryption Algorithms** window appears.



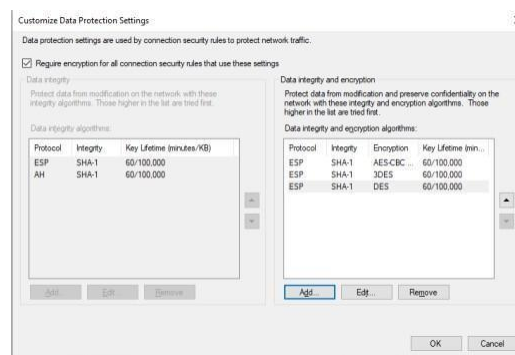
- d. Under **Protocol**, ensure that **ESP** is selected.

Information and Network Security

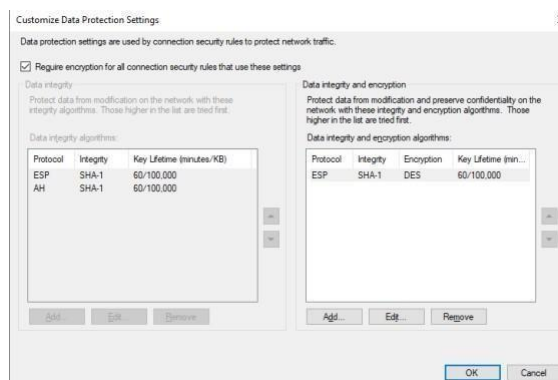


- e. Select the algorithms that you want to use for each purpose, and then select **OK**.

The algorithms that you have selected appear in the list.



- f. Move the algorithms to the top of the list. We recommend that you remove the remaining items in the list.



- g. Select **OK**.