

Cisco Firepower User Agent Database Service Does not Restart after a Stop

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Introduction

A Cisco User Agent can monitor the Microsoft Active Directory (AD) server and reports login and logoff activities that are authenticated by an LDAP server. A Firepower Management Center (FMC) integrates these activities with the security events it collects from a Firepower managed device. This document provides a solution to an issue when the User Agent does not start after you stop its service.

Symptoms

You can use the solution on this document if you notice the following symptoms with your User Agent service:

- User Agent interface shows the service as Not Running.
- The Windows Service Console, `services.msc`, shows the Cisco User Agent status as blank, and fails to start the service.
- The windows event log shows an error similar to "The trust relationship between the primary domain and the trusted domain failed"
- A file `UserEncryptionBytes.bin` is created at `C:\` with zero byte in size.
- The debug mode of a User Agent client shows the following error messages in the Log tab of the User Agent:

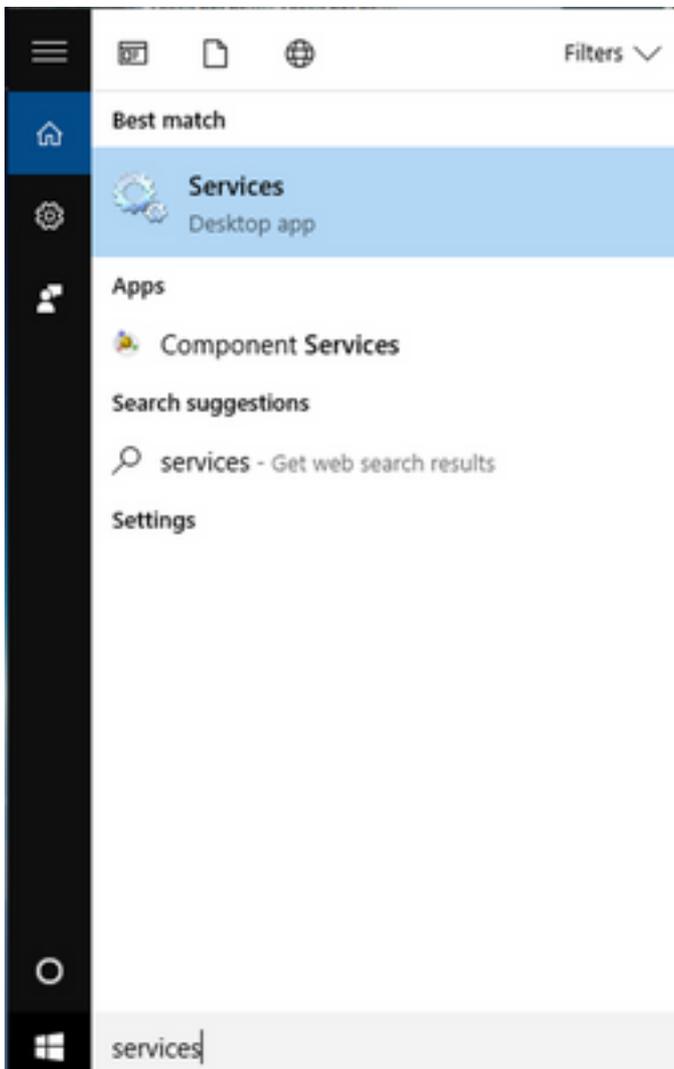
```
<Timestamp>,"debug","[0102] - An error occured while fetching encryption bytes from 'C:\UserAgentEncryptionBytes.bin':  
The trust relationship between the primary domain and the trusted domain failed.."
```

```
<Timestamp>,"error","[0102] - An error occured while fetching encryption bytes from 'C:\UserAgentEncryptionBytes.bin':  
Specified key is not a valid size for this algorithm.."
```

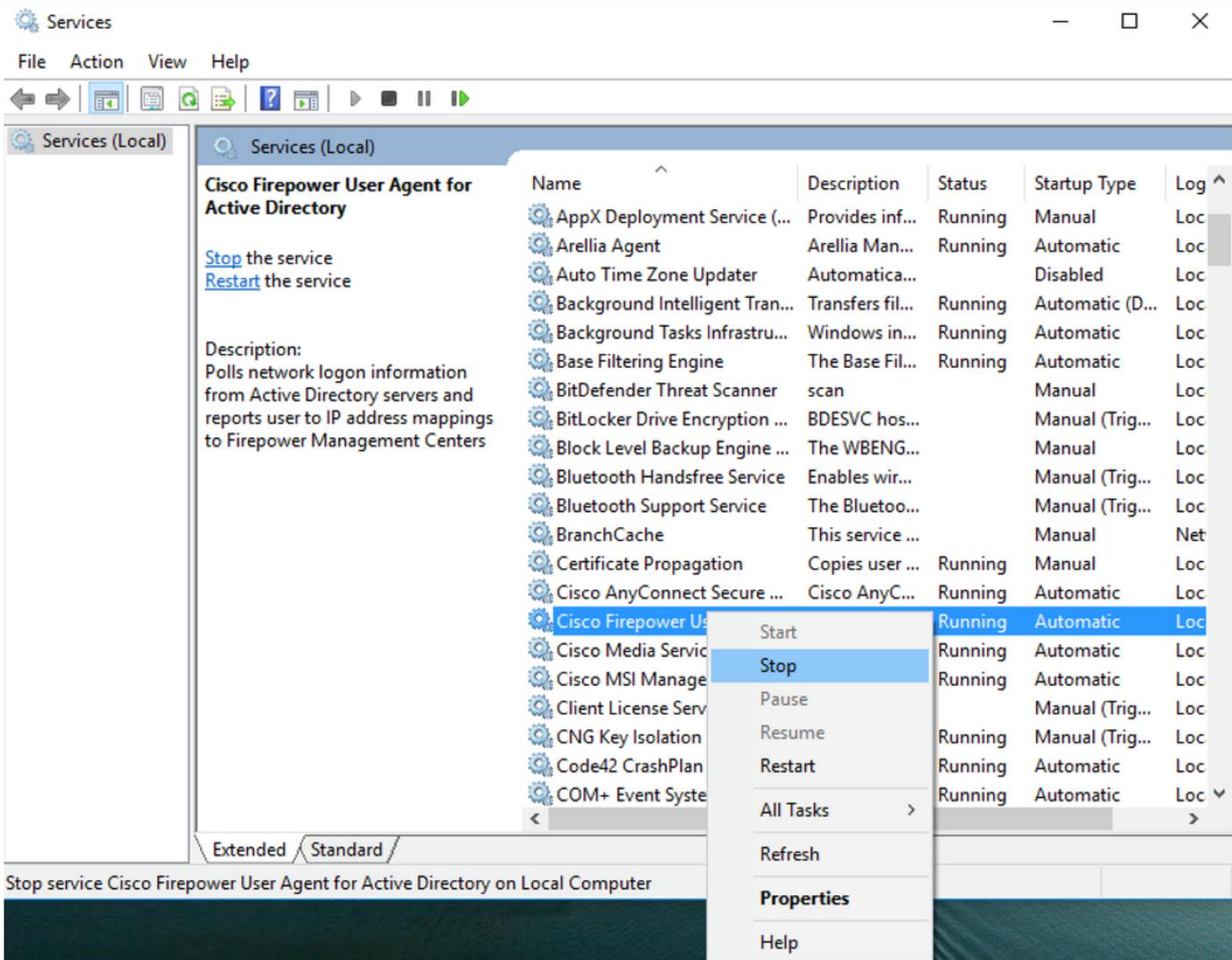
```
<Timestamp>,"error","[0002] - Error connecting to 10.85.3.122:  
System.UnauthorizedAccessException:  
Access is denied. (Exception from HRESULT: 0x80070005 (E_ACCESSDENIED))
```

Solution

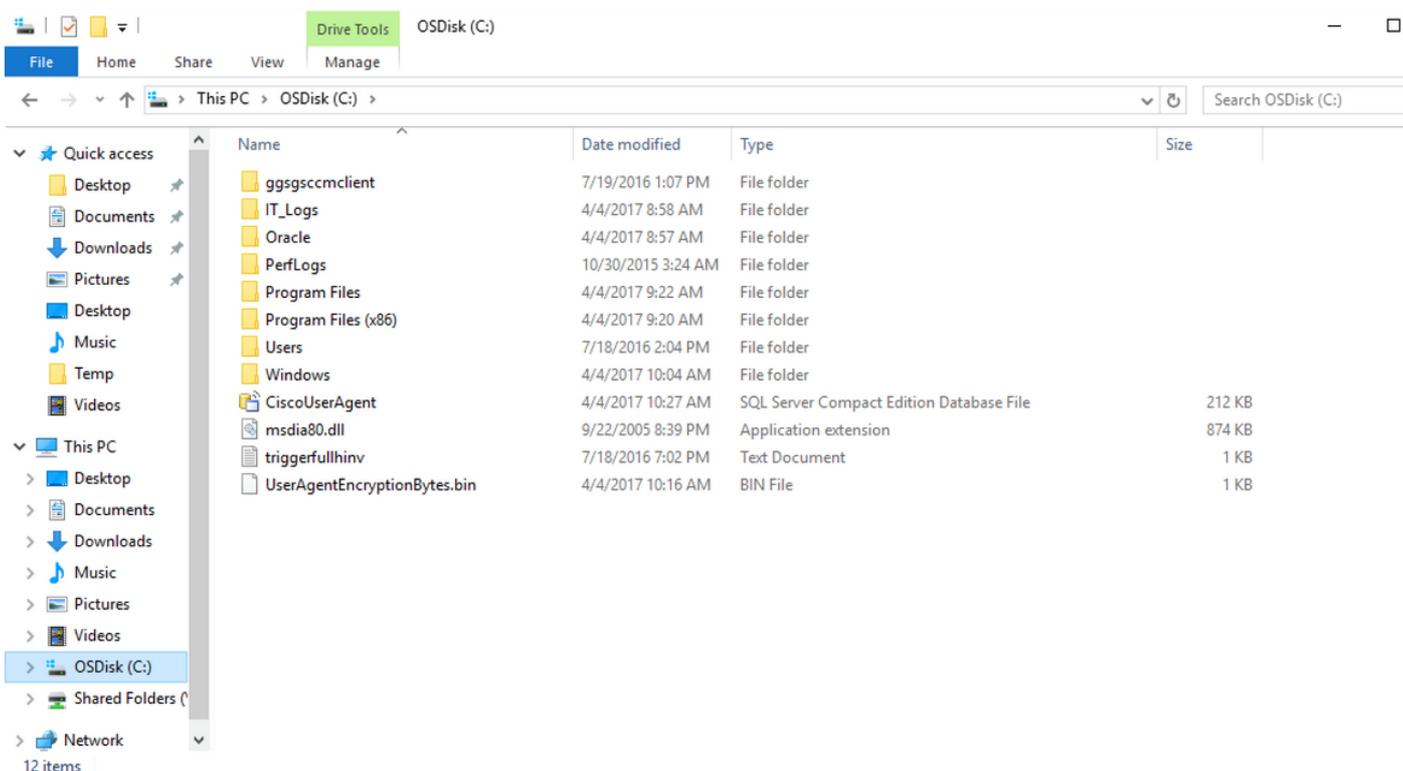
Step 1: Run the Microsoft Windows Services Console, `services.msc`. It allows you to disable or enable a Windows service.



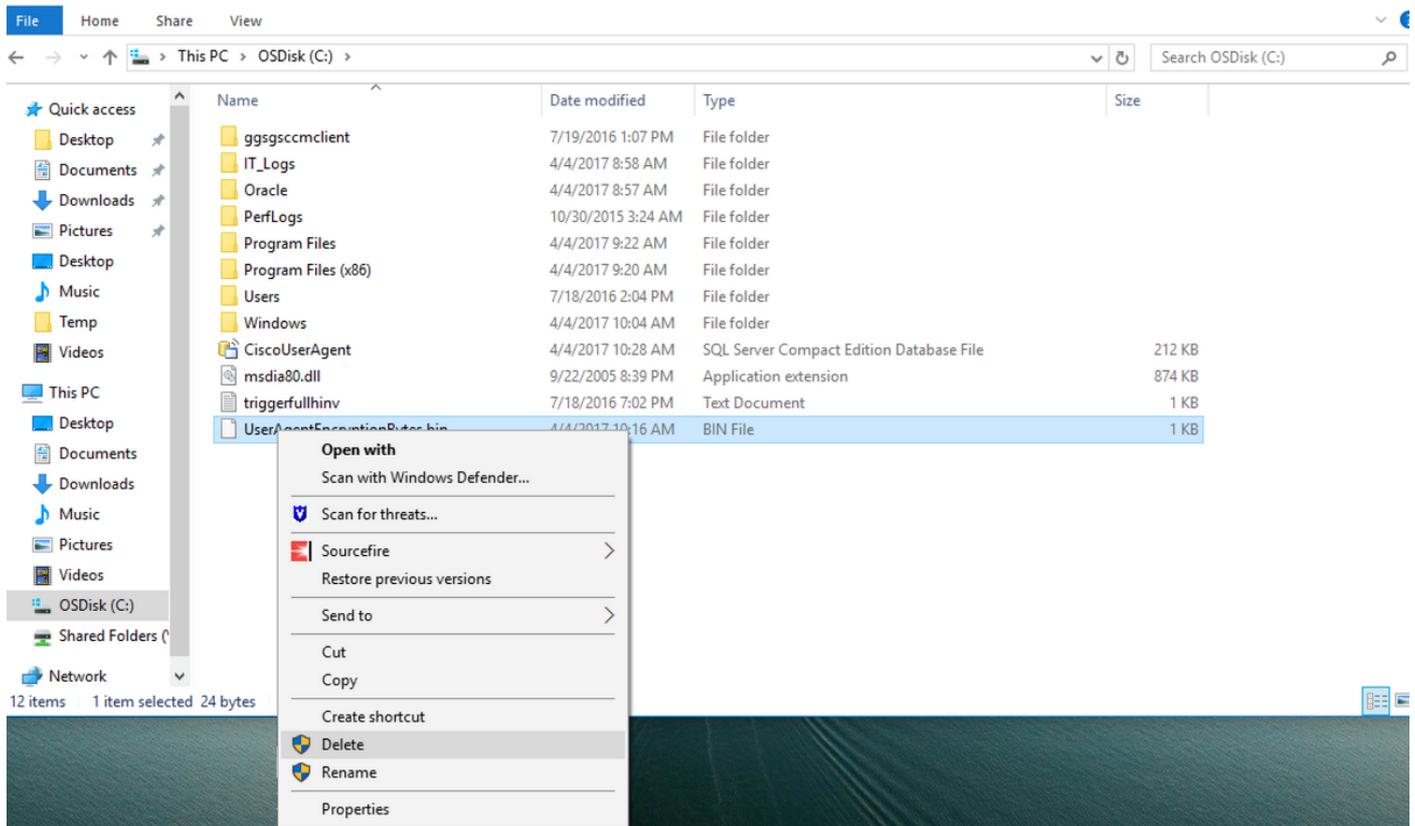
Step 2: Right click the Cisco User Agent service and select **Stop** to stop the service.



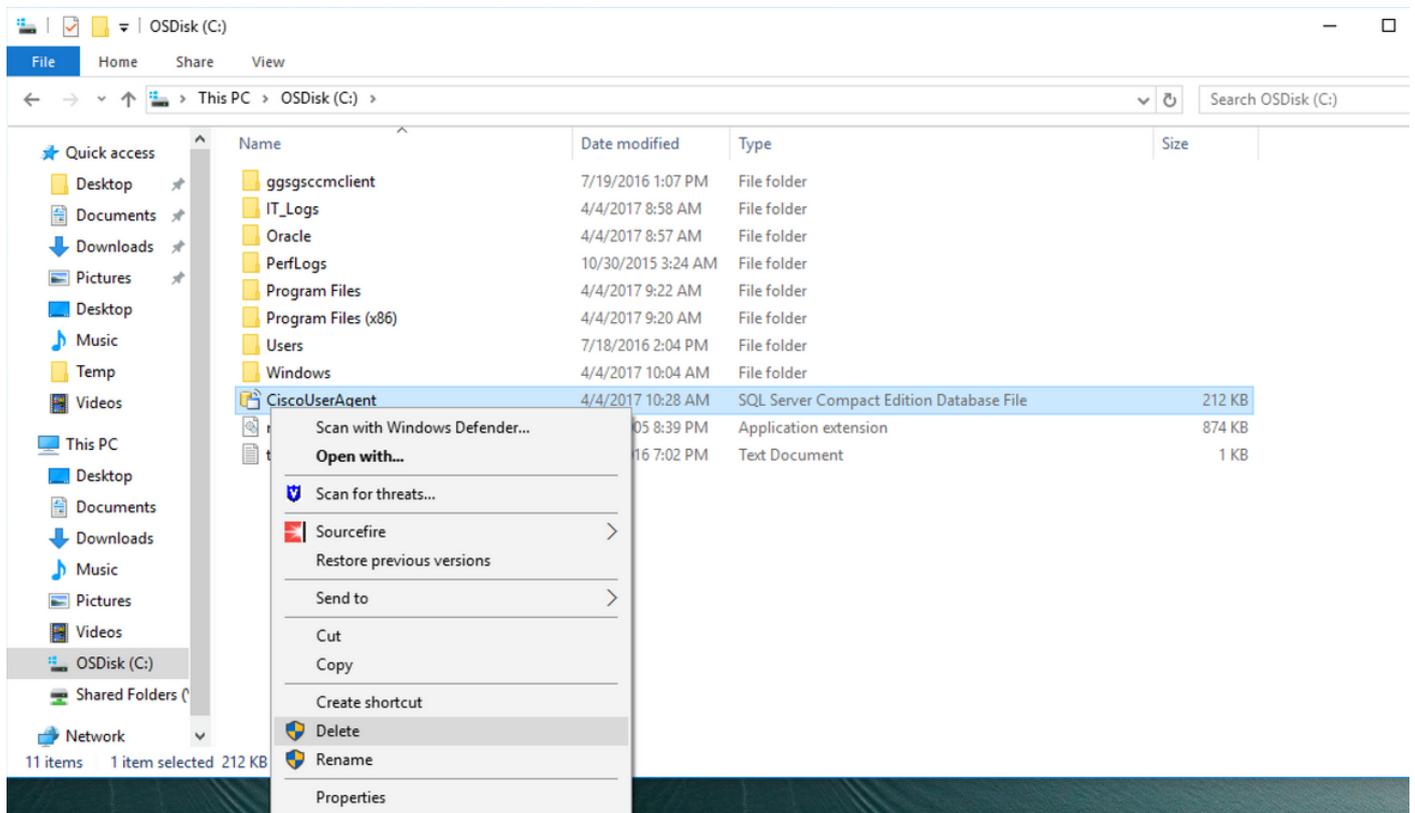
Step 3: Navigate to the C: drive.



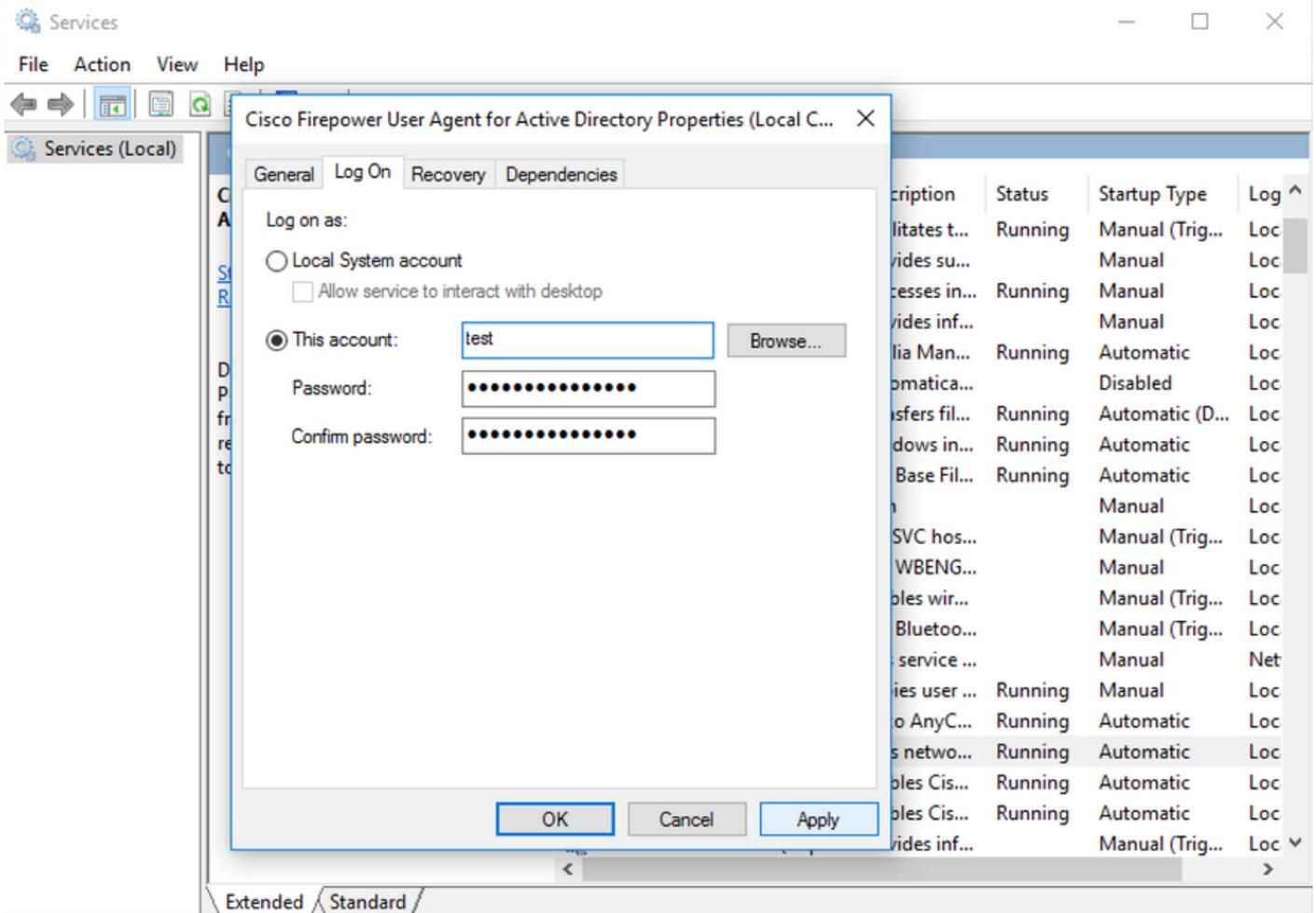
Step 4: Delete this UserAgentEncryptionBytes.bin file.



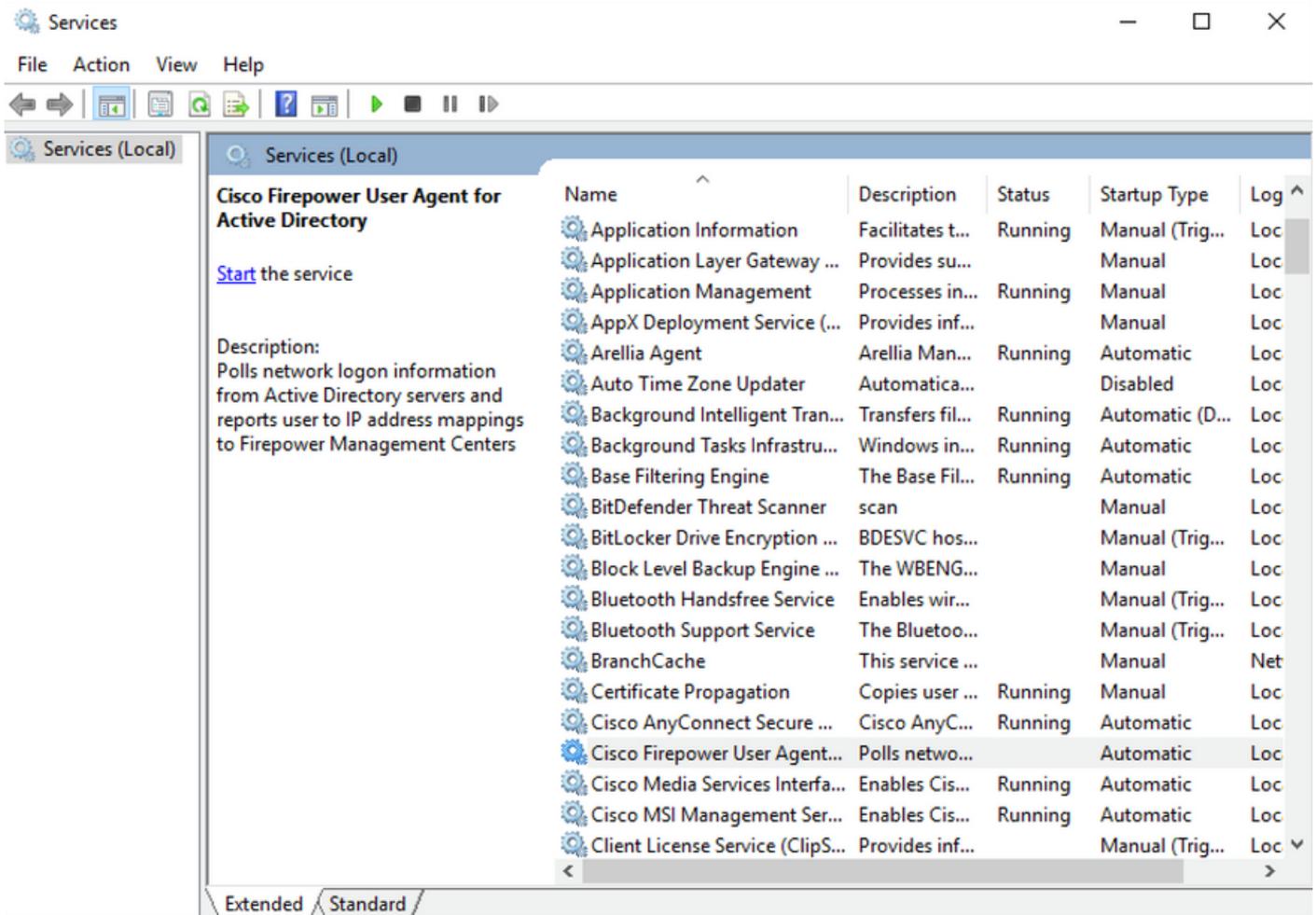
Step 5: Delete the CiscoUserAgent file, which is an SQL Server Compact Edition Database File.



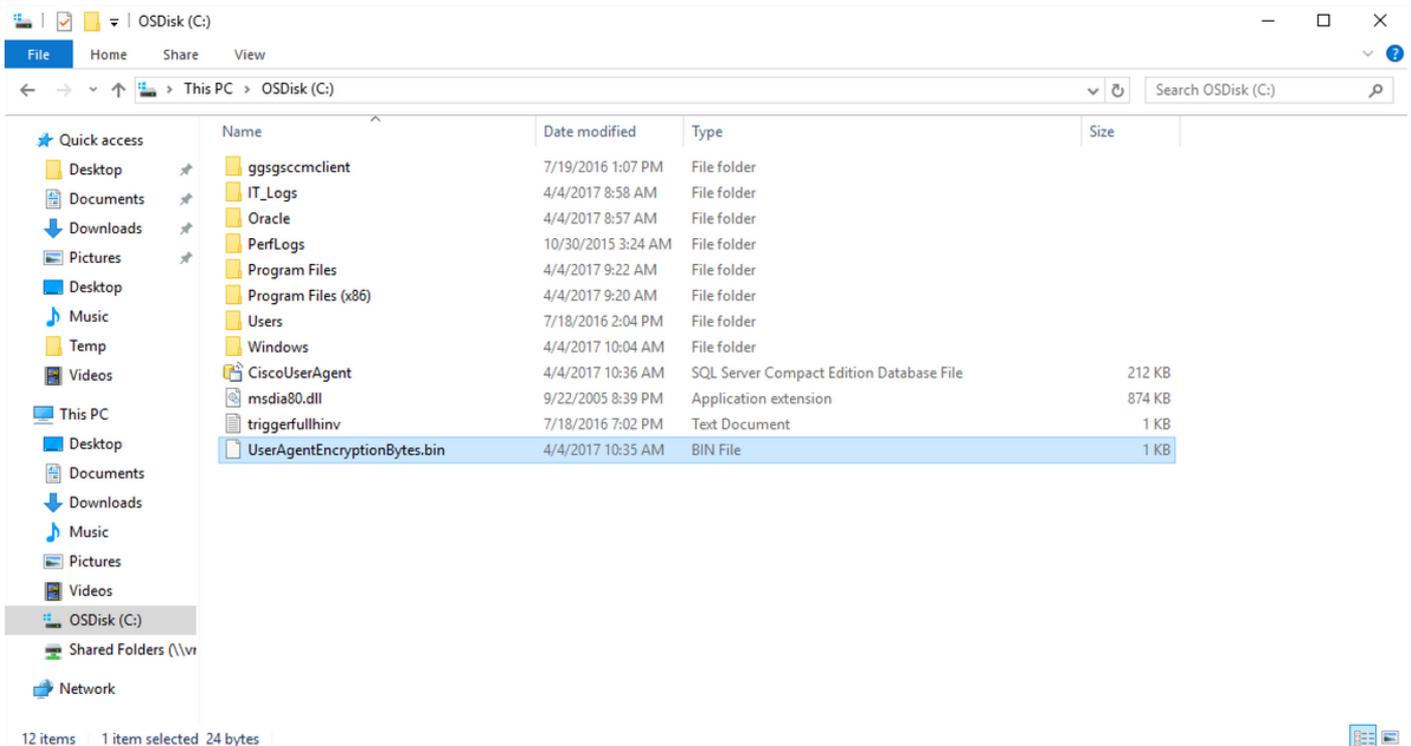
Step 6: Go back into services.msc. Right click on the Cisco User Agent service, select **Properties**, then select **Log On** tab, and configure a user as an AD user login. Click **Apply** when done.



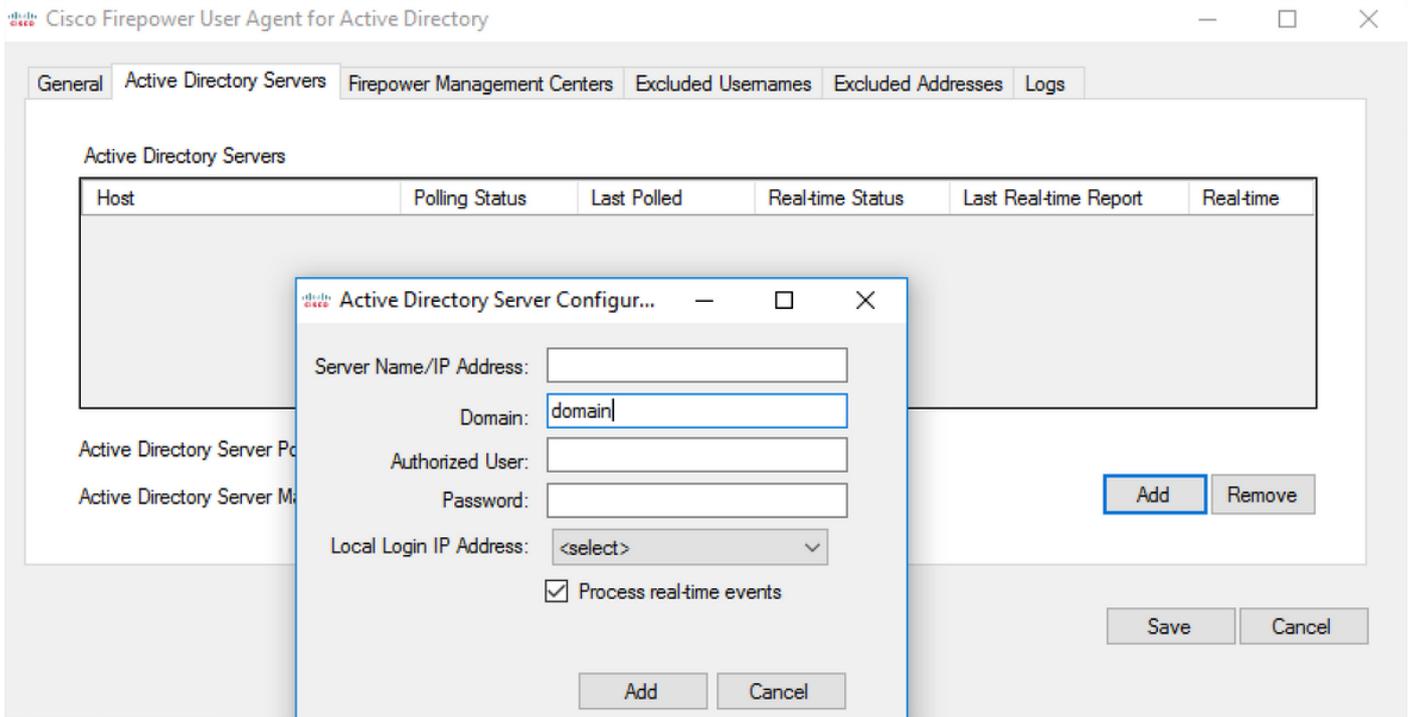
Step 7: On the `services.msc`, click **Start** for the **Cisco Firepower User Agent for Active Directory** service.



Step 8: Verify the size of the UserAgentEncryptionBytes .bin file. It should not be 0 KB.



Step 9: Add the Domain Controllers and Firepower Management Center to the User Agent Client. Please be sure to add the Domain Controllers/local host before adding the Firepower Management Center to the User Agent.



References

- [Firepower User Agent Configuration Guide, 2.3](#)
- [User Agent Stops Derailing If It Cannot Translate Service Account to SecurityIdentifier \(CSCuw20184\)](#)
- [Grant Minimum Permission to an Active Directory User Account Used by the Sourcefire User Agent](#)