

## Understanding and Troubleshooting Webex VDI (Virtual Desktop Infrastructure)

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- What is VDI (Virtual Desktop Infrastructure)
- Webex VDI Overview
- Architecture
- System Requirements
- How to deploy Webex VDI
- Common Issue and Troubleshooting

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## What is VDI

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## Virtual Desktop Infrastructure



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#### Architecture Thin Client Virtual Channel Data Center **VDA** HVD HVD **HVD** HVD **HVD** (VM)Connection Hypervisor Broker **Physical Server**

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## **Common Components**

- Compute system CPU, RAM, Network
- Hypervisor Separate resource and create virtual machine.
- HVD Hosted virtual desktop (VM)
- Connection Broker Software that creates connections to HVD. It performs a number of tasks including the following:
  - Validating the username and providing a connection for the user.
  - Allowing the user to connect to a specific virtual desktop.
- VDA Virtual delivery agent. Establish and manage the connection between HVD and thin client.
- Thin Client Physical PC. Simple, low-performance PC, or normal PC.

## Benefits

- Flexibility
- Mobility
- Simplified management
- Enhanced security
- Cost saving



## Webex VDI Overview



## Overview

- Webex is a leading technology in collaboration market
- Combine calling, messaging, meeting together
- Webex VDI optimized for audio and video









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## Webex VDI Components

- HVD Hosted virtual desktop (VM)
- Thin Client Physical device. Simple, low-performance PC, or normal PC.
- Connection Broker & VDA Software that manages and creates connections to HVD.
- Webex App Webex application installed on HVD.
- Webex Plugin A piece of Webex software installed on thin client side.

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## Sharing type from Webex app

















# System Requirements

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## Requirements for Webex app on HVD

#### Single-session operating system

- Microsoft Windows 10
- Windows 365 Cloud PC

#### Multi-session operating system

- Microsoft Windows Server 2016
- Microsoft Windows Server 2019
- Microsoft Windows Server 2022

#### Multi-session cloud virtualization service

- Azure Virtual Desktop (AVD, formerly Windows Virtual Desktop)—provides Windows 7 Enterprise and Windows 10 Enterprise virtualization
- VMware Cloud (installed on AWS)

## Requirements for Webex app on HVD

#### Connection Broker / VDA

- Citrix Virtual Apps and Desktops 7 CR 2212
- Citrix Virtual Apps and Desktops 7 2203 LTSR CU2
- Citrix Virtual Apps and Desktops 7 1912 LTSR CU6
- XenApp and XenDesktop (7.15 LTSR CU9)

(\*Virtual channel allow list policy is enabled since Citrix Virtual Apps and Desktops 7 2109. You must add the Webex app virtual channel (CSCOTM) to the allow list with the virtual channel name and process path: "CSCOTM,C:\Program Files\Cisco Spark\dependencies\teamshvdagent.exe")

- VMware Horizon Agent:
  - 7.10 to 7.13 (7.13.0 to 7.13.2)
  - 8 2006 (8.0) to 8 2212
- Remote Desktop App for AVD

# Requirements for Webex app thin client on Windows

#### Supported Software

- Microsoft Windows 10
- Microsoft Windows 11 (for VDI plugin 41.12 and later)

#### Citrix Workspace app or VMware Horizon client

- Citrix Receiver 4.9 and later
- Citrix Workspace app 1808 and later
- VMware Horizon View Client version 5.x
- VMWare Horizon client version 8.x (2103) is supported from the Webex VDI plugin version 41.4 onward
- VMware Horizon client version 8.x (2106) for Webex VDI plugin version 41.8 onward



# Requirements for Webex app thin client on Windows

#### Supported Hardware

- 2 GB installed RAM
- 128 MB physical memory
- 256 MB disk space
- Minimum CPU Mobile AMD Sempron Processor 3600+, 2-GHz Intel Core 2 CPU, or T7400 2.16 GHz
- DirectX 11-compatible GPU
- USB 2.0 ports for camera and audio devices

\*If you want users to use virtual backgrounds, you must meet the virtual background requirements.

## Requirements for Webex app VDI - More

Please find more detail requirement info for Linux, MAC from below link: <u>Deployment guide for Webex App for Virtual Desktop Infrastructure (VDI)</u>





## Requirements for Webex Meeting on HVD

#### Supported Software

- Windows 8 and 10
- Windows Server 2012 and 2016

#### Connection Broker / VDA

- Citrix Virtual Apps and Desktops 7 1906, 1912, 2012, 2103, 2206
- VMware Horizon 7 version 7.6, 7.7, 7.8, 7.9, 7.10, or 7.11
- VMware Horizon Agent 8 version 2111

\*VMware Horizon HTML Access is not supported



# Requirements for Webex Meeting plugin on thin client

#### Supported Software

- Citrix Workspace App (formerly Citrix Receiver)—any version that supports Citrix Virtual Apps and Desktops 7 1906, 1912, 2012, 2103, 2206.
- VMware Horizon Client for Windows versions 5.0, 5.1, 5.2, 5.3, 5.5, or 2209.

#### Supported Hardware – Win10

 Processor: AMD Embedded G-Series GX-420GI Radeon R7E 2.00GHz Cores 2

Memory: 4G

 Processor: 6th Generation Intel Core i5-6500TE processor Memory: 4G

## Requirements for Webex Meeting VDI - More

Please find more detail requirement info for other OS in <u>Prepare</u> section: <u>Administration guide for Webex Meetings Virtual Desktop software</u>



# How to deploy Webex VDI

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#### Webex VDI

## Get Webex file

The Webex application can be used with Windows or Linux thinclient. The different Webex VDI plugins can be found on this page. For more information, please refer to the <u>Webex VDI Release Notes</u>.



Find all from: <u>https://www.webex.com/downloads</u> <u>/teams-vdi.html</u>



## Plugin Compatibility – Webex App

- Standalone Webex app release every month.
- Webex app/Bundled for VDI on HVD release every 2 month. Odd month do not have the feature release for standalone version. Even month release catch up the features.
- Webex app plugin/Bundled for VDI on thin client release every 2 month.
- Webex App VDI supports backward compatibility the latest Webex App VDI release supports the latest Webex App VDI plugin as well as three previous plugin releases (N-3).

For more details, please refer to 'Version Support' in <u>Webex App | VDI release notes</u>.

• Recommend user install latest version for both.

\* When a release of Webex App is working with an earlier VDI plugin, the solution is running in backward compatibility mode. In this mode, Webex App for VDI supports all messaging features but only basic calling features. Check <u>Features in backward</u> <u>compatibility mode</u> for more.

## Plugin Compatibility – Webex Meeting

- Standalone Webex Meeting Release every month.
- Webex Meeting on HVD Release every month. Release quarterly for slow channel.
- Webex Meeting plugin on thin client Release quarterly from version 42.7. No auto upgrade.
- Webex Meeting VDI supports backward compatibility the latest Webex VDI release supports the latest Webex VDI plugin as well as seven previous plugin releases (N-7).

For more details, please refer to Compatibility List.

 If you are using a lower version of the plugin, but a higher version of the HVD, you will still get the feature list that is corresponding to the lower version of meeting client.

## Deploy Webex App on HVD - Environment

- Persistent mode In a persistent environment, a user's local operating system changes are preserved after a user signs out.
- Non-persistent mode In a non-persistent environment, a user' local operating system changes are not preserved after a user signs out. The applicable user-specific information (user data, profile, and settings) is cached during the user session.
- All user preferences are in the roaming database: spark\_roaming\_store.db.
- To keep Webex credentials and preferences consistently between VDI sessions(sign out and sign in), should always back up and restore spark\_roaming\_store.db.
#### Deploy Webex App on HVD – Install command

- Installation with Auto-upgrade enabled
  - msiexec /i c:\users\[username]\Downloads\Webex.msi ALLUSERS=1 ENABLEVDI=2 AUTOUPGRADEENABLED=1
  - msiexec /i c:\users\[username]\Downloads\Webex.msi ALLUSERS=1 ENABLEVDI=2 AUTOUPGRADEENABLED=1 ROAMINGENABLED=1
- Installation with Auto-upgrade disabled
  - msiexec /i c:\users\[username]\Downloads\Webex.msi ALLUSERS=1 ENABLEVDI=2 AUTOUPGRADEENABLED=0
  - msiexec /i c:\users\[username]\Downloads\Webex.msi ALLUSERS=1 ENABLEVDI=2 AUTOUPGRADEENABLED=0 ROAMINGENABLED=1

#### \*ROAMINGENABLED=1 for a non-persistent VDI environment.

Argument: ALLUSERS=1

- Per-machine installation.
- Installs Webex App in c:\program files, is recommended for VDI environment.
- Requires admin install privilege.
- If this argument is not specific, Webex app will do a per-user installation. Installs Webex app in %LocalAppData%\Programs\Cisco Spark as default.

#### Argument: ENABLEVDI=1

- Enable the VDI optimized mode and will work with thin client plugin installed.
- Set to 0: Disable VDI optimized mode.
- Set to 2: Webex app will detect the environment automatically. If there's thin client plugin installed, will use the VDI optimized mode.
- Requires admin install privilege.

Argument: AUTOUPGRADEENABLED=0

- Set to 0: Webex app will not do version upgrade on HVD. Admin/User needs to manually update.
- Set to 1: Allow Webex app version upgrade automatically on HVD. If need auto upgrade, recommend use slow channel version which update every 4 months.
- Requires admin install privilege.
- This argument must be accompanied by ALLUSERS=1, otherwise the AUTOUPGRADEENABLED argument is ignored.

#### Argument: ROAMINGENABLED=1

- If this argument is specified, then the roaming database (spark\_roaming\_store.db) is stored in the user's roaming directory (AppData\Roaming). Otherwise, the roaming database is stored in AppData\Local.
- Suits for non-persistent VDI environment. User can quickly back up and restore the folder Appdata\Roaming\CiscoSpark so that VDI users won't lose preferences between sessions.
- Requires admin install privilege.
- This argument must be accompanied by ALLUSERS=1, otherwise the ROAMINGENABLED argument is ignored.

Argument: FORCELOCKDOWN=LockWhenCompatible

- Only for the bundled installer.
- When installing the bundled components for Webex app, you can use this argument to lock the version of the app that is used to join meetings, if the version is compatible with the site version.
- If the version is not compatible with the site version, then the app which is used to join meetings will do auto upgrade.
- Set to FORCELOCKDOWN= NeverUpdate: the app which is used to join meetings will never do any auto upgrade even if it's not compatible with site version. In this situation, user may have problem when join meeting.
- Requires admin install privilege

Regarding VDI deploy arguments and for other OS, please find details from:

Deployment guide for Webex App for Virtual Desktop Infrastructure (VDI)

For more arguments, like ACCEPT\_EULA, AUTOSTART\_WITH\_WINDOWS, DEFAULT\_THEME, etc... please find details from: <u>Webex App | Installation and automatic upgrade</u>

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#### Deploy Webex App plugin on thin client

- Make sure Citrix or VMware has been installed on thin client first.
- Double click the plugin msi file and proceed the install process.
- Could enable or disable plugin auto upgrade by adding registry key on HVD:
  - HKEY\_LOCAL\_MACHINE\SOFTWARE\Cisco Spark Native AutoUpgradeVDIPluginEnabled=0 - not upgrade AutoUpgradeVDIPluginEnabled=1 - auto upgrade
  - Auto upgrade bi-monthly
  - Available after version 42.2
  - Only for Windows and MAC OS.
  - The plugin can only upgrade automatically if the Webex App on the virtual desktop also upgrades automatically.

#### Deploy Webex App VDI – Control Hub

- Enable the VDI optimization for all org users in Control Hub.
- Same as argument ENABLEVDI=1.

#### Enable VDI Optimization for Webex app

If you enable VDI for Webex app, users can use the built-in messaging, meetings, and calling functionality on their thin client through VDI infrastructure. The VDI solution optimizes media streams: audio and video streams directly between the thin clients without going through the Hosted Virtual Desktop (HVD). Learn More





VDI for Webex app

#### Confirm Webex App VDI works

Check VDI connection via Help -> Health Checker menu



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## Deploy Webex Meeting on HVD - Registry

 Download the Webex Meeting app msi file from your own Webex site, 'Download' page and install it on HVD.

https://sitename.webex.com/webappng/sites/sitename/dashboard/download

- Could modify registry to control VDI enable or disable on HVD Keys:
  - For 32-bit versions: Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\WOW6432Node\Webex\NativeVDI
  - For 64-bit versions:
     Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\W

Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\Webex\NativeVDI

Name	Туре	Data
		1 - Enabled
VDIFeatureEnabled	REG_DWORD	0 - Disabled
		Others - Ignore

#### Deploy Webex Meeting plugin on thin client

- Make sure Citrix or VMware has been installed on thin client.
- Download Meeting plugin from your own Webex site -> Download page.
- Double click the plugin msi file and proceed the install process.
- Plugin on thin client released quarterly from version 42.7. It's aligned with Meeting slow channel release.
- No auto upgrade for Meeting plugin. Need manual delete and install for a newer version.

### Confirm Webex Meeting VDI works

'VDI' should appear in the UI once launch a meeting.

Meetings - VDI	Meetings - VDI Neeting Info Hide Menu Bar
	<u>F</u> ile <u>E</u> dit <u>Share View A</u> udio & Video <u>P</u> articipant <u>M</u> eeting <u>B</u> reako
Ying Ying Pu's Personal Room	

For more deploy methods on other OS and steps, please refer to: Administration guide for Webex Meetings Virtual Desktop software

#### Coming Soon - Video Mesh-ready Meeting Platform

Meetings functionality will be built into the single Webex App VDI plugin.

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## **Common Issue and Troubleshooting**

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#### How to get logs for Webex app

Data

Set a statu	us			
Availability				
Active		>	Ask the Webe	ex Community
Status			Send Logs	
Edit profile			Export Calling	g Environment
Settings			Send Feedba	ck
Help		>	Health Check	er
Sign Out			Webex Help	
Exit Webex			About	

Click Avatar -> Settings -> Send logs

- Copy the FeedbackId and provide it to TAC
- Control Hub admin could get the log from: Control Hub -> Troubleshooting
- Get the log from local pc: HVD - %userappdata%\Local\CiscoSpark Thin client - %userappdata%\Local\CiscoWebexVDI



## How to get logs for Webex app



#### Basic info gathering

- System details OS version of HVD and thin client; Citrix or VMware app name, version on HVD and thin client; Webex app and plugin version.
- How was Webex app installed on HVD. What arguments were used.
- VDI connection status correct or not.
- First time use or broke recently.
- Persistent or non-persistent environment.
- Webex app version with plugin version is compatible or not.
- Used as VDI optimized mode or not.



#### Plugin compatibility check – Webex App

Webex App VDI support backward compatibility. To use the latest features, make sure app and plugin are both upgraded to the latest.

User could check version info from VDI status, Help ->Health Checker.





## Plugin compatibility check – Webex App

• Search "printVersions" as keyword in current\_log.txt of HVD or thin client. From HVD current log:

2023-03-19T08:20:36.020Z <Debug> [0x1a00] HealthCheckManager.cpp:465 printVersions: HVDClient:43.2.0.25211 ThinClient:43.2.0.25211 TCSDK:1.0.676.0 HVDSDK:1.0.676.0 TCPlugin:1.0.676.0 HVDAgent:1.0.676.0 Citrix:23.2.0.9 VMWare: MyInternal:1 PeerInternal:1

 Search "Compatibility" as keyword in current\_log.txt of HVD to see if it's compatible or not:

2023-03-19T08:27:25.373Z <Debug> [0x1a00] VDIDiagnosticDataManager.cpp:217 VDIDiagnosticDataManager::OnVirtualChannelStatusChanged:Connection Status:Connected Virtual Environment:Citrix Plugin version:43.2.0.25211 Version Compatibility:Compatible Thin client OS:Windows

\*Check compatibility list from <u>Version Support</u> tab.

Virtual Channel disconnection caused VDI turns to fallback mode. Fallback mode supports standard calls and call recording. The full feature set isn't supported. Call quality is lower because of the server or network issues that cause the switch to fallback mode.





From current\_log.txt on HVD side, could see Virtual Channel status changed to Disconnected:

- 2023-03-21T06:02:53.303Z <Debug> [0x348] VDIDiagnosticDataManager.cpp:217 VDIDiagnosticDataManager::OnVirtualChannelStatusChanged:Connection Status:Disconnected Virtual Environment:- Plugin version:- Version Compatibility:- Thin client OS:-
- 2023-03-21T06:02:53.303Z <Error> [0x348] MediaEngineVDIProxy.cpp:1072 MediaEngineVDIProxy::OnVirtualChannelStatusChanged:OnVirtualChannelStatusChanged connected = false.
- 2023-03-21T06:02:53.303Z <Debug> [0x348] MediaManager.cpp:4631 MediaManager::onVDIVirtualChannelDisconnected:VDI virtual channel disconnected
- 2023-03-21T06:02:53.303Z <Debug> [0x348] EccMediaConnectionManager.cpp:1621 EccMediaConnectionManager::onVDIVirtualChannelDisconnected:VDI virtual channel disconnected

1. In-Compatible version of Webex plugin on Thin client

 VDINotificationManager.cpp:177 VDINotificationManager::checkPluginVersion:notify - plugin not compatible VDIDiagnosticDataManager.cpp:217 VDIDiagnosticDataManager::OnVirtualChannelStatusChanged:Connection Status:Connected Virtual Environment:Citrix Plugin version:42.10.0.23293 Version Compatibility:In-Compatible Thin client OS:

Solution:

 Make sure the Webex app version on HVD and the Webex app plugin version on thin client is compatible. Follow details in <u>Version Support</u> section.

2. Webex Plugin on thin client not installed or not detected. From current\_log.txt on HVD side:

- 2023-03-21T01:59:04.304Z <Debug> [0x211c] VDINotificationManager.cpp:157 VDINotificationManager::checkPluginInstalled::<lambda\_08e5698297649157b2ea1ce02745b7dd >::operator ():checkPluginInstalled timer plugin not installed
- 2023-03-21T06:02:53.301Z <Debug> [0x348] VdiManager.cpp:576 VdiManager::toggleFallbackMode:Toggle Fallback mode to: On, Reason: VirtualChannelNotAvailable, Current status: InVDIMode

Solution:

- Make sure plugin is installed on thin client.
- Install the Webex plugin *after* Citrix or VMware installed. Follow the correct installation order.
- Upgrade Webex app/plugin version.

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#### 3. RTT timeout between HVD and Thin client

VDIDiagnosticDataManager.cpp:46 VDIDiagnosticDataManager::init::::operator ():Update roundtrip time. HealthMonitor.cpp:112 PingAndWaitInSecond:enter PingAndWaitInSecond HealthMonitor.cpp:152 sendPingRequestAndWait:sendPingMessagetoPeer38 VDIDiagnosticDataManager.cpp:46 VDIDiagnosticDataManager::init::::operator ():Update roundtrip time. VDIDiagnosticDataManager.cpp:55 VDIDiagnosticDataManager::init::::operator ():Cann't ping because last ping not finished. HealthMonitor.cpp:170 sendPingRequestAndWait:WaitFor ping result timeout HealthMonitor.cpp:123 PingAndWaitInSecond:leave PingAndWaitInSecond HealthMonitor.cpp:131 PingAndWaitInSecond:PingAndWaitInSecond: -1

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continue in next slide...

#### 3. RTT timeout between HVD and Thin client

KeepAliveHandler.cpp:145 notifyHeartBeatReceived:notifyHeartBeatReceived KeepAliveHandler.cpp:124 onTimer:Peer Connection dead detected! No response for: 69.9707 seconds HealthCheckManager.cpp:125 onConnectionLostDetected:onConnectionDeadDetected VirtualChannelManagerImpl.cpp:212 OnVirtualChannelStatusChanged:OnVirtualChannelStatusChanged: 0 VDIVirtualChannelManager.cpp:242 VDIVirtualChannelManager::OnVirtualChannelStatusChanged:Receive VirtualChannelStatus:0 VdiManager.cpp:408 VdiManager::OnVirtualChannelStatusChanged:fallback-OnVirtualChannelStatusChanged status: 0 VdiManager.cpp:419 VdiManager::OnVirtualChannelStatusChanged:fallback-switchFallback: 0 VdiManager.cpp:544 VdiManager::toggleFallbackMode:Toggle Fallback mode to: On, Reason: VirtualChannelNotAvailable, Current status: InVDIMode CoreFramework.cpp:802 CoreFramework::onApplicationEventHappened:ReadyToFallbackMode, start..



3. RTT timeout between HVD and Thin client

- Bad network condition between HVD and Thin client
- Webex app plugin not work

Solution:

- Check the network connectivity
- Check Webex app plugin process in task manager. Manually end it and restart.





## Common Issue - No VDI environment is detected



- Try use "ENABLEVDI=1" argument when install on HVD.
- Make sure use the supported version of Webex app or plugin which support the specific Citrix/Vmware version.

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#### Common Issue – Virtual Channel Allow List

VDI Test	Service is disconnected	<ul> <li>Virtual Channel</li> <li>Blocked by Citrix virtual channel allow list policy settings, please contact admin to add the channel to the list</li> <li>VDI fallback mode</li> </ul>	*This info will appear if Webex app version is equal or higher than 42.8
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From Citrix Virtual Apps and Desktops 7 2109, "virtual channel allow list policy" is enabled by default. You must configure this policy for Webex App VDI first (add Cisco Virtual Channel) for optimized mode to function properly or disable this policy.

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#### Common Issue – Virtual Channel Allow List

- When it's enabled, only Citrix virtual channel is allowed.
- When it's disabled, all virtual channels are allowed.
- Add the Webex app virtual channel (CSCOTM) to the allow list with the virtual channel name and process path: "CSCOTM,C:\Program Files\Cisco Spark\dependencies\teamshvdagent.exe"

# Virtual channel allow list Enabled This setting will be enabled. CSCOMT,C:\Program Files (x86)\Webex\Webex\Meetings\meetingshvdagent.exe Webex app



#### Common Issue - MRA is not deployed accordingly



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## Common Issue - MRA is not deployed accordingly

#### Log sample:

MediaEngineVDIProxy.cpp:472 MediaEngineVDIProxy::getServiceRecordsImp::::operator ():get DNS srv service records from TC, internals = , externals = EccManager.cpp:6407 EccManager::getServiceRecords::::operator ():No SRV recod from client side, thin client should be off-prem and no express way, so fallback to native teams VdiManager.cpp:544 VdiManager::toggleFallbackMode:Toggle Fallback mode to: On, Reason: UCServiceNotAvailable, Current status: InVDIMode

Solution:

Please check all requirements in 'Mobile and Remote Access (MRA) requirements' section in <u>Deployment guide for Webex App for Virtual</u> <u>Desktop Infrastructure (VDI)</u>



#### Non-persistent environment login issue

Auto login not work on Webex app on non-persistent environment.

Log sample:

<Error> [6244] EncryptionKeyStorageUtilsWin.cpp:124 encryption::decrypt:Failed to decrypt using
platform, error: 2148073483

<Error> [6244] EncryptionKeyStorageUtilsWin.cpp:151 encryption::decryptAndDecodeKey:Cannot decrypt database key.

<Warn> [6244] DatabaseLifecycle.cpp:2489 DatabaseLifecycle::checkRoamingDatabase:Unable to read key for database, dropping user DB entirely and creating a new one.

<Info> [6244] DatabaseLifecycle.cpp:4406 DatabaseLifecycle::removeDatabaseFromDisk:Dropping
database...

The roaming database(spark\_roaming\_store.db) contains all user credentials and preferences, encrypted using AES256.

#### Non-persistent environment login issue

Solution:

- msiexec /i c:\users\[username]\Downloads\Webex.msi ALLUSERS=1 ENABLEVDI=2 AUTOUPGRADEENABLED=1 ROAMINGENABLED=1
- To decrypt roaming db, make sure below folders are also synchronized among VDI sessions: AppData\Roaming\Microsoft\Credentials AppData\Roaming\Microsoft\Crypto AppData\Roaming\Microsoft\Protect AppData\Roaming\Microsoft\SystemCertificates

## How to get logs for Webex Meeting

#### On HVD - send problem report and give the tracking ID to TAC



This method should combine HVD and thin client logs.

Also could get the Webex meeting log on HVD side from below folder: C:\Users\{username}\AppData\Local\Temp\webexmta

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#### How to get logs for Webex Meeting

On Thin client - could find the log from C:\Users\{username}\AppData\Local\Temp\WebexVDIMeetingLogs





## How to get logs for Webex Meeting

Share	e View			
📜 « [	Local > Temp > webexmta > 16093718830069	3643_62822_20200512	155917	∨ Ü Search
^	Name	Date modified	Туре	Size
	160937188300693643_62822_20200512	5/14/2Phinefier	nt Virtual chan	nef 1087 KB
	CiscoMeetings	5/12/2020 4:00 PM	Data Base File	96 KB
- 14	TCVirtualChannel_05122020_155915.7z	5/12/2020 4:00 PM	HYD <sup>e</sup> virtual ch	annel <sup>399 KB</sup>
	VirtualChannel	5/12/2020 4.00 PM	Text Document	863 KB
	VirtualChannel1	5/12/2020 4:00 PM	Text Document	10,240 KB
.15	wbxmta_basicinfo_20200512_155917	5/12/2020 4:00 PM	XML Document	365 KB
	wbxmta_dump_20200512_155917.dmp	5/12/2020 4:00 PM	DMP File	265 KB
nts	wbxmta_screen_20200512_155917	5/12/2020 4:00 PM	JPG File	236 KB
ds	wbxmta_topic	5/12/2020 4:00 P31	VD meeting t	race 1 KB
	wbxtra_05082020_061848.wbt	5/12/2020 4:00 PM	WBT File	102,400 KB
	wbxtra_RESIDENT_05092020_142110	5/12/2020 4:00 PM	Compressed (zipp	3,247 KB
	wbxtra_RESIDENT_05112020_095545	5/12/2020 4:00 PM	Compressed (zipp	1 KB
k (C:)	🔊 webex	5/12/2020 4:00 PM	Configuration setti	205 KB
TANG	WebexVDIMeetingLogs_05122020_15591	€ <u>412/2020</u> 4:004.11	ninClient meet	ing trace

\*If thin client log is not included in problem report, then get the log from C:\Users\{user name}\AppData\Local\Temp\WebexVDIMeetingLogs on HVD side.

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#### Info from Webex meeting trace log on HVD

• Search by keyword '*VDIService'*, could see below info:

mse::enableFeatureToggle, featureToggle=vdiService, enable=TRUE mse::VDIService::initialize4HVDClient, Is VDI Environment:, isVDIEnv=TRUE mse::VDIService::initialize4HVDClient, Is Virtual Channel Connected:, isVChannelConnected=TRUE mse::VDIService::isCompatibleVDIClient, VDI Thin Client is compatible with VDI HVD Client.

mse::VDIService::initialize4HVDClient, Working on VDI mode!

• Search by keyword 'VDI meeting', could see meeting VDI status:

CPfwServiceMgr::SendTelmetryActionTracking4VDI, This meeting is a CrossLaunch VDI meeting, mse::VDIThinClientOSType::Windows, Citrix, 4036

### Info from Webex meeting trace log on HVD

If see below highlighted logs, then there should be issue:

mse::VDIServiceHVDAdapter::detectVirtualChannelConnectionStatus, vdi, Try detect thinClient plugin Timeout!, detectPluginTimeout=5 mse::VDIService::initialize4HVDClient, Is Virtual Channel Connected:, isVChannelConnected=FALSE mse::VDIService::initialize4HVDClient, Virtual Channel connect failed, start normal Webex meeting!

Need to check plugin status on thin client and the network connectivity between HVD and thin client.

### Meeting not VDI optimized due to...

• Meeting plugin is not installed or not running on thin client *Solution: Check if meeting plugin is installed.* 

😨 Cisco Webex Meetings Virtual Desktop Plug-in				Cisco Webex LLC			3/24/2023		43.2.1.18			
Check if meeting plugin is running from task manager.												
	50001		איייע	00	1,000 K	100	CI3CO 1100					
💽 webexvdi.exe	28736	Running	yinpu	00	53,104 K	x86	Webex Me					

- Meeting plugin version is not compatible with Meeting app version Solution: Please check the <u>Compatibility List</u>.
- System does not meet our requirement Solution: Please check system requirements from <u>Prepare</u>.

### Meeting may not VDI optimized due to...

• HVD is in a vGPU environment – NVIDIA vGPU Solution: Add below registry key on HVD side.

key name	type	value	
HKEY_LOCAL_MACHINE\SOFTWARE\Cisco Spark Native\isVDIEnv	REG_EXPAND_SZ	true	

For 32bit OS, add registry key to Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\WOW6432Node\Cisco Spark Native

- There's already one VDI meeting launched on HVD.
  One virtual channel only support one VDI optimized meeting.
- Thin client plugin also is running on HVD side.

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# Thank you



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