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known port assignments and vulnerabilities threat/application/port search: Port(s) Protocol Service Also uses this port. Fortinet FortiGate uses the following ports (in addition to standard ports 53, 80, 443): 514 tcp - FortiAP logging and reporting 541 tcp, 542 tcp - FortiGuard management 703 tcp/udp. 730 udp - FortiGate heartbeat 1000 tcp, 1003 tcp - policy override authenticator 8013 tcp - fortiAuthenticator 8013 tcp - fortiAuthenticator 8013 tcp - fortiGate heartbeat 1000 tcp, 1003 tcp - fortiAuthenticator 8013 tcp - fortiAuthenticator 8013 tcp - fortiAuthenticator 8013 tcp - fortiAuthenticator 8000, 8001 tcp - fortiAuthenticator 8013 tcp - f FortiClient v.5.4 8014 tcp - Forticlient v.6 8890 tcp - AV/IPS updates, management, firmware 9443 udp - AV/IPS 9582 tcp - FortiGuard Cloud App DB (flow.fortinet.net) Backdoor. E [Symantec-2005-080212-3505-99] (2005.08.01) - trojan that opens a backdoor on the compromised computer, logs keystrokes, steals passwords and drops rootkits that run in safe mode. Opens a backdoor on one or more of the following ports: 7080/tcp, 8008 tcp HTTP Alternate (official) Wikipedia 8008 tcp HTTP Alternate (official) Wikipedia 8008 tcp IBM HTTP Server administration default (unofficial) Wikipedia 8008 tcp novell-http Novell Netware Management Protocol SANS 8008 tcp applications PPLive Portforward 8008 tcp http IBM HTTP server Nmap 8008 tcp threat Haxdoor Bekkoame 8008 tcp threat Haxdoor Bekkoame 8008 tcp threat HAXA 8 records found SG security scan: port 8008 jump to: Related ports: 80 443 591 1177 8009 8010 8013 8080 8081 8443 8521 « back to SG Ports External Resources SANS Internet Storm Center: port 8008 Notes: Port numbers in computer networking represent communication endpoints. Ports are unsigned 16-bit integers (0-65535) that identify a specific process, or network service. for well-known internet services. Well Known Ports: 0 through 49151. Dynamic/Private : 49152 thr data. TCP guarantees delivery of data and that packets will be delivered in the same order in which they were sent. Guaranteed communication/delivery is the key difference between TCP and UDP. UDP ports use the transmission of datagrams from one computer to applications on another computer, but unlike TCP, UDP is connectionless and does not guarantee reliable communication; it's up to the applications, such as audio/video streaming and realtime gaming, where dropping some packets is preferable to waiting for delayed data. When troubleshooting unknown open ports, it is useful to find exactly what services/processes are listening to them. This can be accomplished in both Windows command prompt and Linux variants using the "netstat -aon" command. We also recommend runnig multiple antivirus/anti-malware scans to rule out the possibility of active malicious software. For more detailed and personalized help please use the "Add Comment" button below to provide additional information or comments about port 8008. High performance access to Windows virtual apps and desktops, anywhere access from your desktop, start menu, Receiver UI or web access with Chrome, Internet Explorer or Firefox. Citrix Receiver can be used on domain and non-domain joined PCs, tablets, and thin clients. Provides high performance use of virtualized Skype for Business, line of business, English, French, German, Japanese, Korean, Russian, Simplified Chinese, Spanish, and Traditional Chinese. = Recently Updated Change Log Hardware Citrix Scalability — The Rule of 5 and 10: Simply take the number of physical cores in a hypervisor host, multiply it by 5 or 10, and the result will be your Single Server Scalability. Use 5 if you're looking for the number of XenDesktop VMs you can host on a box, and use 10 if you're looking for the number of XenApp user sessions you can host on a box. Virtual Machine Hardware Hypervisor Support - CTX131239 Supported Hypervisors for XenDesktop VMs you can host on a box. Update 3 (but not Cumulative Update 2) supports vSphere 6.7 Update 1 VDA virtual machine sizing: If using RAM caching (MCSIO or PvS), add more RAM for the cache Remove the floppy drive Remove any serial or LPT ports If vSphere: To reduce disk space, reserve memory. Memory reservations reduce or eliminate the virtual machine .vswp file. The NIC should be VMXNET3. For vGPU, if vSphere 6.7 Update 1 and 7.15 LTSR CU3, set vgpu.hotmigrate.enabled Advanced vCenter Server Setting to true. (source = William Lam How to enable vGPU vMotion in vSphere 6.7 Update 1) If this VDA will boot from Provisioning Services: For vSphere, the NIC must be VMXNET3. For vSphere, configure the CD-ROM to boot from IDE instead of SATA. SATA comes with VM hardware version 10. SATA won't work with PvS. For Windows 10 - see CTX224843 Windows 10 - s Semi-Annual Channel (Broad) (aka Current Branch for Business) versions of Windows 10, starting with the VDA version released after a Windows 10 1703 was designated as Broad (typically 4 monthly patches after initial release). Windows 10 1703 was designated as Broad (typically 4 monthly patches) version released after a Windows 10 1703 was designated as Broad (typically 4 monthly patches). as Broad (after four monthly Windows patches). Windows 10 1709 Targeted: Citrix Product Manager in the comments mentioned that 7.15 will support 1709. Citrix has a live article about all this: CTX229052. The Microsoft patches required for 1709 will come out in 2 dates: Nov 14th (Patch Tuesday KB4051314) will allow you to upgrade from 1703 and older with a VDA already installed, to 1709. '11D' patch (last week of November via Microsoft Update Catalogue) will allow you to do a fresh new VDA install on top of 1709. It's possible that LTSR 7.15 Cumulative Updates will support newer versions of Windows 10. Install the latest version of hypervisor drivers (e.g. VMware Tools). The vSphere Activity Monitoring Feature with NSX Guest Introspection feature uses a TDI driver (vnetflt.sys), which might cause a "Connection Interrupted" message when users log off of Citrix. See VMware 2121307 Windows virtual machines using the vShield Endpoint TDI Manager or NSX Network Introspection Driver (vnetflt.sys) driver fails with a blue diagnostic screen and XenDesktop 7.12 logoff: Connection interrupted at Citrix Discussions. If vSphere, disable NIC Hotplug Users could use the systray icon to Eject the Ethernet Controller. Obviously this is bad. To disable this functionality, power off the virtual machine. Once powered off, right-click the virtual machine, and click Edit Settings. On the VM Options tab, expand Advanced, and then click Edit Configuration. On the bottom left, enter devices.hotplug. On the right, enter false. Then click Add. Clones so the Master VM will get the computer-level GPO settings in its registry. Run gpupdate on the master after moving the VM to the correct OU. When Clones are created from the Master, the computer-level GPO settings will already be applied, thus eliminating a timing issue. If RDSH (Server OS), disable IE Enhanced Security Configuration in Server Manager > Local Server. Optionally, go to Action Center (Windows 8.1 or 2012 R2) or Control Panel > Security and Maintenance (Windows 10/2016) to disable User Account Control, and enable SmartScreen. In Windows 10/2016) to disable User Account Control, and enable SmartScreen is configured in Windows Defender Security Center > App & browser control. Run Windows Update. Add your Citrix Administrators group to the local Administrators group on the VDA. Computer Management. The Remote Desktop Services "Prompt for Password" policy prevents Single Sign-on to the Virtual Delivery Agent. Check registry key HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows NT\Terminal Services. If fPromptForPassword = 1 then you need to fix group policy. The following GPO setting will prevent Single Sign-on from working. Computer Configuration | Policies | Administrative Templates | Windows Components | Remote Desktop Services | Remote Desktop Session Host | Security | Always prompt for password upon connection Or set the registry value HKEY LOCAL MACHINE\SOFTWARE\Citrix\Portica\AutoLogon (DWORD) = 0x1. This registry value only applies to Desktop OS, not Server OS. (source = comments) For Windows 7/2008 R2 VDAs that will use Personal vDisk, or AppDisk, or any other layering technology, install Microsoft hotfix 2614892 A computer stops responding because of a deadlock situation in the Mountmgr.sys driver. This hotfix solved a Personal vDisk Image update issue detailed at Citrix Discussions. If this VDA is Windows 10, see Robin Hobo How to remove the built-in apps in Windows 10, see
Robin Hobo How to remove the built-in apps in Windows 10, see Robin Hobo How to remove the built-in apps in Windows 10, see Robin Hobo How to remove the built-in apps in Windows 10, see Robin Hobo How to remove the built-in apps in Windows 10, see Robin Hobo How to remove the built-in apps in Windows 10, see Robin Hobo How to remove the built-in apps in Wind built-in apps in Windows 10 Enterprise. For Remote Assistance in Citrix Director, configure the GPO setting Computer Configuration | Policies | Administrative Templates | System | Remote Assistance. See Jason Samuel - How to setup Citrix Director Shadowing with Remote Assistance using Group Policy for more details. If you intend to use Citrix's SCOM Management Packs for XenApp/XenDesktop, make sure WinRM is enabled on the VDA by running winrm quickconfig. Or you can enable WinRM using Group Policy. Install Virtual Delivery Agent 7.15.9000 LTSR Citrix periodically releases Cumulative Updates for LTSR versions of VDA. The latest Cumulative Update for 7.15 is CU9 (7.15.9000). Get in the habit of periodically upgrading your LTSR VDAs to the latest Cumulative Update. CLI Install: Command line at Citrix Docs. GUI Install: Mount the downloaded XenDesktop 7.15.9000 LTSR ISO. Run AutoSelect.exe from the ISO. Alternatively, you can download the standalone VDA package and run that instead. Go the main XenDesktop 7.15.9000 download page. Expand the section labelled Components that are on the product ISO but also packaged separately to download the Standalone VDA installers. Note: 7.15.9000 also has a VDA installer called Desktop OS Core Services that is designed for Remote PC deployments and is not typically used on virtual machines. If you want to later install Browser Content Redirection, then you'll need to install the VDA 7.15 CU9 with HTML5 disabled. You do that by including the /FEATURE DISABLE HTML5 command line switch when running XenDesktopVDASetup.exe. or XenDesktop. The only difference is the product name displayed in the installation wizard. On the top right, click Virtual Delivery Agent for Windows Server OS, depending on which type of VDA you are building. In the Environment page, select Create a Master Image, and click Next. For virtual desktops, in the HDX 3D Pro page, click Next. In the Core Components page, if you don't need Citrix Workspace app installed on your VDA, then uncheck the box. Workspace app is usually only needed for double-hop connections (connect to first VDA, and then from there, connect to second VDA). Click Next. In the Additional Components page, uncheck Citrix AppDisk/Personal vDisk. This feature has been deprecated and is being replaced by Citrix App Layering (Unidesk). If you are installing VDA on Windows 10 1709 or newer, then it is critical that you uncheck this. Click Next. In the Delivery Controller page, select Do it manually. Enter the FQDN of each Controller. Click Test connection. And then make sure you click Add. Click Next when done. In the Features page, check boxes. Only the top box is checked by default. If you want to use the other features, check the boxes. Then click Next. In the Summary page, click Install. Click Next. In the Summary page, click Next. In the S CU9' installation media window: Don't close the Locate window. Mount the XenApp and XenDesktop 7.15.9000.iso. Go back to the Locate window. On the bottom left, under This PC, click the mounted drive. Then click the Select Folder button. Installation will resume. Note: NT SERVICE\CitrixTelemetryService needs permission to login as a service In the Call Home page, make your choice, click Connect, and then click Next. In the Finish page, click Finish to restart the machine again. According to CTX225819 When Launching an Application is Visible, HKLM\SOFTWARE\Citrix\Citrix Virtual Desktop Agent\DisableLogonUISuppression (DWORD) should be set to 0. Profile Management 7.15.7000 Hotfix 1 - Security Fix This update fixes a Local privilege escalation as detailed at CTX319750 Citrix Virtual Apps and Desktops Security Update. This hotfix is not needed if you are running VDA 7.15.9000. Download Hotfix ProfilemgtWX64_7_15_7001 and extract it. From the ProfilemgtWX64_7_15_7001 folder, run profilemgt_x64.msi. In the Welcome to the Citrix Profile management Setup Wizard page, click Next. In the End-User License Agreement page, check the box next to I accept the terms and click Next. In the Destination Folder page, click Next. In the Ready to install Citrix Profile management page, click Install. Click OK if prompted to update existing files. In the Completed the Citrix Profile management Setup Wizard page, click Finish. Click Yes when asked to restart now. Also update the UPM VDA Plugin. Download Hotfix UPMVDAPluginWX64 7 15 7001 and extract it. From the UPMVDAPluginWX64_7_15_7001 folder, run UpmVDAPlugin x64.msi. In the Welcome to the UpmVDAPlugin Setup Wizard page, click Next. In the End-User License Agreement page, click Next. In the Ready to install UpmVDAPlugin page, click Install. Click OK if you see Files in Use. Click OK to update existing files. In the Completed the UpmVDAPlugin Setup Wizard page, click Finish. Microsoft FSLogix If you need to roam the user's Outlook Cached Mode), Outlook Search Index, OneDrive cache, OneNote data, SharePoint data, Shype data, and/or Teams data, then download, install, and configure Microsoft FSLogix. FSLogix has more Office container for the Desktop Access per-user CALs, and all Microsoft Enterprise E3/E5 per-user licenses. Notice that per-device licenses are excluded. G0-EUC tested FSLogix on found that it reduces capacity by 27%. (source = The impact of managing user profiles with FSLogix) Do the following to install Microsoft FSLogix on the VDA machine: Go to and click the download link. Extract the downloaded .zip file. In the FSLogix \x64\Release folder, run FSLogixAppsSetup.exe. Check the box next to I agree to the license terms and conditions and click Install. In the Setup Successful page, click Restart. Make sure the Windows Search service is set to Automatic and Running. If Office is already installed, then repair the Office installation after installing and starting the Windows Search Service. FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing registry values on each FSLogix is configured through Group Policy or by editing reg newer. This is a back port of the same BCR feature in Citrix Virtual Apps and Desktops (CVAD) 1811. BCR requires Workspace app and will not work with Receiver. To install BCR on VDA 7.15.9000: Download Browser Content Redirection 15.15. The BCR add-in has not been modified for 7.15.9000. If you installed the VDA using AutoSelect.exe, then you'll need to uninstall the VDA and reinstall it, but this time from the command line. On the 7.15.9000 ISO, go to \x64\XenDesktopVDASetup.exe file. Copy as path appears when you hold down Shift while right-clicking. Open a command prompt and paste the path. At the end of the path, enter /FEATURE DISABLE_HTML5 and press Enter. Reinstall the VDA like normal. After VDA 7.15 CU8 is installed, open Programs and Features (or Apps and Features) and find Citrix Browser Content Redirection version 15.15.0.10. If you open Services on the VDA, you'll see the Citrix HDX services. BCR GPO Admin Templates 7.15 does not have the Citrix Policy settings to control BCR so you'll instead need to install a GPO ADMX template. This template was updated in November 2019. In the same download page for Browser Content Redirection 15.15, scroll down to find the ADMX Files and then download it. Extract the .zip file. Inside the extracted ADMX files, go up a folder to the root of the ADMX files and copy MultimediaGroupPolicy.adml to the clipboard. Go to your PolicyDefinitions folder (in Sysvol, or C:\Windows), open the en-US folder, and then paste the .adml file. When you open a Group Policy that applies to the VDA Computers, in the Computers, in the Computer statice Templates, you'll see a new node named HDX Browser Content Redirection. The settings in this folder are the same ones configured in Citrix Policy in newer versions of Citrix Virtual Apps and Desktops (CVAD). See for configuration details. BCR requires Workspace app and
will not work with Receiver, including the LTSR version of Receiver. Citrix Desktop Service To prevent Citrix Desktop Service (BrokerAgent) starting and registering with the Delivery Controllers before the boot process is complete, see Jeremy Saunders Controlling the Starting of the Citrix Desktop Service (BrokerAgent). Customer Experience Improvement Program (CEIP) is enabled by default. To disable it, create the registry value HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\Telemetry\CEIP\Enabled (DWORD), and set it to 0 (zero). Also see CEIP at Citrix Insight Services at Citrix Ins connection. Position of the indicator is configurable by the user. Thresholds are configurable through group policy. Download it from CTX220774 Connection Quality Indicator and install it. The article is very detailed. Group Policy templates are located at C:\Program Files (x86)\Citrix\Connection Quality Indicator\Configuration. Copy the files and folder to \Policies\PolicyDefinitions, or C:\Windows\PolicyDefinitions. Find the settings under Computer Config | Policies | Administrative Templates | Citrix Components | Virtual Desktop Agent | CQI Version 1.2 adds the GPO settings to the user half of a GPO. Notification display settings lets you customize the user notifications, or disable them. Connection Threshold Settings lets you set the notification thresholds. Adaptive Transport XenApp/XenDesktop 7.15 includes Adaptive Transport, which uses EDT protocol, whi can be enabled in the Citrix Policy setting HDX Adaptive Transport. Slow Logons Citrix Discussions Xenapp 7.9: Wait for local session manager: "I have a Xenapp 7.9 environment on Windows 2012 R2. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix Discussions Xenapp 7.9 environment on Windows 2012 R2. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix Discussions Xenapp 7.9 environment on Windows 2012 R2. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. When logging in through Citrix I got message "Wait for local session manager:" of 20-30 seconds. 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"Add the following 2 registry keys to your 7.9 VDA server - then try connecting to it using ICA to see if the issue still occurs: Add reg keys in "HKLM\SOFTWARE\Citrix\GroupPolicy" Dword: "CacheGpoExpireInHours" - Value = 5-24 (# of Hours) *** start with value of 5*** Dword: "CacheGpoExpireInHours" - Value = 1 Restart the machine after adding these registry keys and attempt an ICA connection (at least twice) to see if that helps the Login delay." Mark DePalma at XenApp slow logons. Regedit: Windows Registry Editor Version 5.00 [HKEY LOCAL MACHINE\SOFTWARE\Microsoft\Active Setup\Installed Components\DisableUPMResetCache] @="DisableUPMResetCache] @ '!ctx_localappdata!\Microsoft\Windows\Caches' Registry - 'SOFTWARE\Microsoft\Active Setup\Installed Components\DisableUPMResetCache' Marvin Neys at XenApp slow logon times, user get black screen for 20 seconds at Citrix Discussions says that deleting HKCU\Software\Microsoft\Windows\CurrentVersion\UFH\SHC at logoff reduces logon times from 40 seconds to 6 seconds. Remove-Item HKCU:\Software\Microsoft\Windows\CurrentVersion\UFH\SHC For additional logon delay. XenApp/XenDesktop - "Please Wait For Local Session Manager" message when logging into RDS. He found some Windows Updates that caused a logon delay. XenApp recalculates WMI filters on every reconnect. CTX212610 Session Reconnect 30 sec Delay - DisableGPCalculation - WMI Filters indicates that recalculation (DWORD) to 1. Note: this registry value might stop Citrix Policies from being re-evaluated when users reconnect (source = Citrix Discussions). If your VDA is 2008 R2, then CTX207038 Application not launching and the session is stuck at the PreLogon state: The 'IgnoreRegUserConfigErrors' registry setting on the Terminal Server will cause Winlogon to ignore the fact that it cannot contact a DC in the domain of the authenticating user to get the information it is looking for. Key = HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server Value (DWORD) = IgnoreRegUserConfigErrors = 1 CTX212439 Desktop Session Stuck in Pre-Logon State with Message "Please wait for the Local Session Manager": HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\Kerberos\Parameters\MaxTokenSize (DWORD) = 48000 Delete HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\Control\L\$RTMTIMEBOMB Controller Registration Port Some environments will not accept the default port 80 for Virtual Delivery Agent registration, even though registration is authenticated and encrypted on port 80. To change the port, do the following on the Virtual Delivery Agent: Open Programs and Features. If Windows 10 1703 or newer, open Apps and Features. Find Citrix 7.15 LTSR CU8 - Virtual Delivery Agent, and click Change or Modify (Windows 10 1703) or newer, open Apps and Features. and newer). Click Customize Virtual Delivery Agent Settings. Edit the Delivery Controllers, and click Next. In the Finish Reconfiguration page, click Finish to restart the machine. You must also change the VDA registration port on the Delivery Controllers by running C:\Program Files\Citrix\Broker\Service.exe -VDAPort For Local Host Cache, on the Delivery Controllers by running C:\Program Files\Citrix\Broker\Service.exe -VdaPort . (Source = CTX229493 VDAs Do Not Register in LHC Mode When Registration Port is Not Set To Default) Verify that VDA registered with a Controller Citrix Workspace app 1912 LTSR (19.12.7000). VDA 7.15.9000 comes with Workspace app 1912.7000 LTSR Download Citrix Workspace app 1912.7000. On the VDA, as administrator, run the downloaded CitrixWorkspaceApp.exe. In the Welcome to Citrix Workspace app 2012.7000. On the VDA, as administrator, run the downloaded CitrixWorkspaceApp.exe. In the Welcome to Citrix Workspace app 1912.7000. On the VDA, as administrator, run the downloaded CitrixWorkspaceApp.exe. In the Welcome to Citrix Workspace App.exe. In the Welcome sign-on, and click Install. In the Installation successful page, click Finish. Click Yes when asked to restart now. For configuration instructions, see the Workspace app for HTML5/Chrome To allow printing from Workspace app for HTML5/Chrome, install Citrix PDF Printer 7.11.0 for Workspace app for HTML5/Chrome To allow printing from Workspace app for HTML5/Chrome To allo for HTML5 download page in the Additional Components section. Note: this PDF Printer is only used by Workspace app for HTML5 and W accept the terms, and click Install. In the Completed the Citrix PDF Universal Driver Setup Wizard page, click Finish. In Programs and Features), it is shown as version 7.11.0.11. Configure a Citrix Policy GPO. Citrix File Access 2.0.3 for Workspace app for Chrome OS If you support Workspace app for Chrome OS (Chromebook) and want published applications to open files on Google Drive, install Citrix File Access for Chrome OS (Chromebook) and run FileAccess.msi. In the Please read the File Access License Agreement page, check the box next to I accept the terms, and click Install. In the Completed the File Access setup Wizard page, click Finish. File Access has a default list of supported file extensions. The list can be expanded by editing the registry on the VDA. See CTX219983 Receiver for Chrome Error: Invalid command line arguments: Unable to open the file as it has an unsupported extension. To open a file from Google Drive, right-click the file and open the file using Citrix Workspace app. Framehawk Configuration To enable Framehawk, see Remote Desktop Licensing Configuration On 2012 R2 and newer RDSH, the only way to configure Remote Desktop Licensing is using group policy, run gpedit.msc. Alternatively, you can configure this in a domain GPO. Go to Computer Configuration > Administrative Templates > Windows Components > Remote Desktop Services > Remote Set the Remote Desktop licensing mode. Change it to Enabled and select Per User. Click OK. Optionally, you can install the Remote Desktop Licensing Diagnoser Tool. In the Server Administration Tools, expand Remote Desktop Licensing Diagnoser Tool. Desktop Services Tools, and select Remote Desktop Licensing Diagnoser Tool. Then Finish the wizard. If it won't install from Server Manager, you can install it from PowerShell by running Install-WindowsFeature rsat-rds-licensing-diagnosis-ui. In Server Manager, you can install it from PowerShell by running Install from Services (or Terminal Services), and click Remote Desktop Licensing Diagnoser. The Diagnoser should find the licenses server, and indicate the
licensing mode. If you're configured for Per User licenses, then it's OK if there are no licenses installed on the Remote Desktop License Server. Licensing Grace Period has expired even though RD Licensing is properly configured, see Eric Verdumen No remote Desktop Licence Server available on RD Session Host server 2012. The solution was to delete the REG BINARY in HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\Control\Terminal Server\RCM\GracePeriod only leaving the default. You must take ownership and give admin users full control to be able to delete this value. C: Drive Permissions This section is more important for shared VDAs like RDSH (Windows Server 2018). The default permissions allow users to store files on the C: drive in places other than their files on the C: drive in places other than their section is more important for shared VDAs like RDSH (Windows Server 2018). profile. Open the Properties dialog box for C:. On the Security tab, click Advanced. If UAC is enabled, click Remove. Highlight the line containing Users and Create files (or Special), and click Remove. Click Ves to confirm the permissions change. If you see any of these Error Applying Security windows, click Continue. This window should appear multiple times. Click OK to close the C: drive properties. Pagefile is smaller than the cache disk. For example, if you allocate 20 GB of RAM to your Remote Desktop Session Host, and if the cache disk is only 15 GB, then Windows will have a default pagefile size of 20 GB, and Provisioning Services to cache to server instead of caching to your local cache disk. This causes Provisioning Services to cache to server instead of caching to your local cache disk. Start button, and click System. Note: in Windows 10 1703 and newer, this method no longer opens the correct tool. Another option is to open File Explorer, right-click This PC, and click Advanced tab, click Advanced tab, click Change. Uncheck the box next to Automatically manage paging file size for all drives. Then either turn off the pagefile, or set the pagefile, or set the pagefile, or set the pagefile to be smaller than the cache disk. Don't leave it set to System managed size. Click OK several times. Direct Access Users When Citrix Virtual Delivery Agent is installed on a machine, non-administrators can no longer RDP to the machine. A new local group called Direct Access Users is created on each Virtual Delivery Agent. Add your non-administrator RDP users to this local group so they can RDP directly to the machine. From CTX228128 What is the HKLM\Software\Citrix\PortICA\DirectAccessUsers registry function: The HKLM\Software\Citrix\PortICA\DirectAccessUsers registry key determines which Local group the VDA references to determine if a user should be allowed Unbrokered RDP access. If the Registry Key does not exist, or gets deleted, VDA will always allow the Unbrokered RDP Connection. The Registry key and local group are created as part of the VDA installation process. Windows Profiles are compatible only between the following client and server operating system pairs. The profile version is also listed. v6 = Windows 10 (1607 and 1703) and Windows Server 2016 v5 = Windows 10 (1511 and older) v4 = Windows 8.1 and Windows Server 2012 v2 = Windows 7 and Windows Server 2012 v2 = Windows 7 and Windows Server 2008 For Windows 7 and Windows Server 2008 R2 v2 = Windows 7 and Windows 8 and 8 Options Is Greyed Out In Citrix Director states that the UseProfilePathExtensionVersion registry value is required on Windows 2012 R2 to enable Director users to reset profiles. Registry Black Screen when launch Published Apps on Windows Server 2016 From CTX225819 When Launching an Application Published from Windows Server 2016, a Black Screen Appears for Several Seconds Before Application is Visible: Citrix and Microsoft have worked together to deliver code fixes for both Windows Server 2016 and XenApp. Microsoft is targeting their KB4034661 patch for the third week of August 2017. This fix requires a registry edit to enable. Key = HKLM\SOFTWARE\Citrix Virtual Desktop Agent Value (DWORD) = DisableLogonUISuppression = 0 Published Explorer From Citrix CTX128009 Explorer.exe Fails to Launch: When publishing the seamless explorer.exe Fails to appear. On the VDA, use the following registry change to set the length of time a client session: Key = HKLM\SYSTEM\CurrentControl\Citrix\wfshell\TWI Value (DWORD) = LogoffCheckerStartupDelayInSeconds = 10 (Hexadecimal) Blank Start Menu Icons With VDA 7.15 Update 1, the icons on the Start Menu of Windows 2012 R2 and Windows 2016 are sometimes blank. To workaround this issue, use Group Policy Preferences to set the following registry value at every logon: Key = HKCU\Software\Microsoft\Windows\CurrentVersion\ImmersiveShell\StateStore Value (DWORD) = ResetCache = 1 Screen Saver From Citrix CTX205214 Screensaver Not Working in XenDesktop: By default, Screen Saver doesn't work on Desktop OS. To enable it, on the VDA, configure the following registry value: Key = HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\Graphics Value (DWORD) = SetDisplayRequiredMode = 0 Smart Card From CTX231942 Windows 10 April 2018 Update (v1803) - Citrix Known Issues Smart Card Service (SCardSvr) will run only if a Smart Card reader is connected. As ICA sessions redirect the Smart Card, it finds the service not to be running and fails. Key = HKEY_LOCAL_MACHINE\Software\WOW6432Node\Microsoft\Cryptography\Calais Value (DWORD) = AllowServiceAccessWithNoReaders = 1 Logon Disclaimer Window Size From XenApp 7.8 - Session Launch Security/Warning Login Banner at Citrix Discussions: If your logon disclaimer window has scroll bars, set the following registry values: Key = HKEY_LOCAL_MACHINE\Software\Wow6432node\Citrix\CtxHook\AppInit_DLLS\Multiple Monitor Hook Value (DWORD) = LogonUIWidth = 300 Value (DWORD) = LogonUIWi LogonUIHeight = 200 From Citrix CTX203760 VDI Session Launches Then Disappears: XenDesktop, by default, only allows 180 seconds to complete a logon operation. The timeout can be increased by setting the following: Key = HKLM\SOFTWARE\Citrix\PortICA Value (DWORD) = AutoLogonTimeout = decimal 240 or higher (up to 3599). Also see Citrix Discussions Machines in "Registered" State, but VM closes after "Welcome" screen. From Citrix CTX138404 Application Connection Starts but Disappears after Timeout: after loading the application, the dialog box disappears and the application fails to appear. Key = HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Citrix\wfshell\TWI Value (DWORD) = ApplicationLaunchWaitTimeoutMS = decimal 60000 HDX Flash From Citrix Known Issues: The registry key value IEBrowserMaximumMajorVersion is queried by the HDX Flash service to check for maximum Internet Explorer version to 11 on the machine where HDX flash supports. For Flash Redirection to work with Internet Explorer 11 set the registry key value IEBrowserMaximumMajorVersion to 11 on the machine where HDX flash supports. HKLM\SOFTWARE\Wow6432Node\Citrix\HdxMediaStreamForFlash\Server\Pseudo This disables the Flash major version checking between the VDA and Client Device. Workspace app for HTML5/Chrome OS Enhanced Clipboard From About Citrix Receiver for Chrome 1.9 at Citrix Docs: To enable enhanced clipboard support, create a REG_SZ registry value HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Citrix\wfshell\Virtual Clipboard\Additional Format'. Create any missing registry keys. This applies to
both virtual desktops and Remote Desktop Session Hosts. Workspace app for HTML5/Chrome OS Upload Folder The Workspace app for HTML5/ (or Chrome OS) lets upload files. By default, the user is prompted to select a upload location. If you use the Upload feature multiple times, the last selected folder is not remembered. Citrix CTX217351 How to customize file upload location by editing HKLM\Software\Citrix\FileTransfer\UploadFolderLocation on the VDA. Environment variables are supported. When this value is configured, users are no longer prompted to select an upload location. The change takes effect at next logon. Note: HTML5/Chrome Workspace app also adds a Save to My Device location to facilitate downloads. 4K Monitors From Citrix Knowledgebase article CTX218217 Unable to span across multiple monitors after upgrade to 7.11 VDA, Black/Blank screen appears on the monitors while connecting to ICA session: . For VDA 7.11 and newer, calculate the video memory that is required for monitors using the following formula: SumOfAllMons (Width * Height) * 4 / 0.3, where width and height are resolution of the monitor 1 is 1920*1200 and monitor 2 is 1366*768. Then SumOfAllMons will be (1920*1200 + 1366*768) CTX115637 Citrix Session Graphics Memory Reference describes how multi-monitor resolution is determined. Open the registry (regedit) and navigate to: HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\services\vbdenum Increase the value of "MaxVideoMemoryBytes" REG DWORD value to the above calculated memory. Reboot the VDA. Citrix Policies also control graphics performance. COM Port Threads CTX212090 COM Port Intermittently Inaccessible During ICA Sessions: increase the default value of "MaxThreads" under the registry key HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\services\picaser\Parameters from 20 to a value greater than the number of COM port connections you want to support. For example, if a XenApp server supports 100 sessions and each session opens two COM ports, the value of "MaxThreads" should be greater than 200. NVIDIA GRID License not apply after the session is started. (Source = Jan Hendrik Meier NVIDIA GRID License not apply after the session is started. = HKLM\SOFTWARE\NVIDIA Corporation\Global\GridLicensing Value (DWORD) = IgnoreSP = 1 Legacy Client Drive Mapping Format on XenApp: Citrix Client Drive Mapping no longer uses drive letters and instead they appear as local disks. This is similar to RDP drive mapping. The old drive letter method can be enabled by setting the registry value: Key = HKEY_LOCAL_MACHINE\SOFTWARE\Citrix\UncLinks (create the key) Value (DWORD) = UNCEnabled = 0 When you reconnect, the client drives will be mapped as drive letters (starts with V: and goes backwards). Print Driver for Non-Windows Clients This section applies to Windows 8.1/2012 and newer VDAs. From CTX140208 Client printing from Mac and Linux clients on Windows 10, Server 2012 R2, and Se Printers & scanners. On the right (or scroll down) is a link to Print Server Properties. In Windows 10 1703, click Start, and run Devices and Printers. In Windows 10 1703, open Printers & scanners, then scroll down, and click Devices and Printers. printers. In the Printers section, highlight a local printer (e.g. Microsoft XPS Document Writer). Then in the toolbar, click Add. In the Print Server Properties. In the Print Server Properties window, switch to the Drivers tab. Click Change Driver Settings. Then click Add. In the Welcome to the Add Printer Driver Wizard page, click Next. In the Processor Selection page, click Next. In the Printer Driver Selection page, click Windows Update. The driver we need won't be in the list until you click this button. Internet access is required. Once Windows Update is complete, highlight HP on the left, and then select HP Color LaserJet 2800 Series PS (Microsoft) on the right. Click Next. In the Completing the Add Printer Driver Wizard page, click Finish. SSL for VDA If you intend to use HTML5 Workspace apps will not accept clear text WebSockets. External users don't have this problem since they are SSL-proxied through Citrix Gateway. Notes: Each Virtual Delivery Agent needs a machine certificate that matches the machine name. This is feasible for a small number of persistent VDAs. For non-persistent VDAs, you'll need some automatic means for creating machine certificates every time they reboot. As detailed in the following procedure, use PowerShell on the Controller to enable SSL for the Delivery Group. This forces SSL for every VDA in the Delivery Group, which means every VDA in the Delivery Group must have SSL certificates installed. The following instructions for manually enabling SSL on VDA can be found at Configure TLS on a VDA in the Delivery Group must have SSL certificates installed. mmc.exe. Add the Certificates snap-in. Point it to Local Computer. Request a certificate from your internal Certificate Authority. You can also use group policy to enable Certificate Auto-Enrollment for the VDA computers. Browse to the XenApp/XenDesktop 7.15.9000 LTSR ISO In the Support/Tools/SslSupport folder, shift+right-click the Enable-VdaSSL.ps1 script, and click Copy as path. Run PowerShell as administrator (elevated). Run the command Set-ExecutionPolicy unrestricted. Enter Y to approve. In the path copied earlier. At the end of the path, type in -Enable If there's only one certificate on this machine, press Enter. If there are multiple certificates snap-in, open the properties of the machine certificate you want to use, and copy the Thumbprint from the Details tab. In the PowerShell prompt, at the end of the command, enter -CertificateThumbPrint, add a space, and type quotes (") at the end of the thumbprint. Then remove all spaces from the thumbprint. The thumbprint needs to be wrapped in quotes. If this VDA machine has a different service already listening on 443 (e.g. IIS), then the VDA needs to use a different port for SSL connections. At the end of the command in the PowerShell prompt, enter -SSLPort 444 or any other unused port. There are additional switches to specify minimum SSL Version and Cipher Suites. Also see Citrix CTX226049 Disabling Triple DES on the VDA breaks the VDA SSL connection. Press to run the Enable-VdaSSL.ps1 script. Press twice to configure the ACLs and Firewall. You might have to reboot before the settings take effect. Login to a Controller, and run PowerShell as Administrator (elevated). Run the command asnp Citrix.* Enter the command: Get-BrokerAccessPolicyRule DesktopGroupName '' | Set-BrokerAccessPolicyRule -DesktopGroupName '' to verify that HDX SSL is enabled \$true where is the name of the Delivery Group containing the VDAs. You can run Get-BrokerAccessPolicyRule -DesktopGroupName '' to verify that HDX SSL is enabled \$true where is the name of the Delivery Group containing the VDAs. You can run Get-BrokerAccessPolicyRule -DesktopGroupName '' to verify that HDX SSL is enabled \$true where is the name of the Delivery Group Containing the VDAs. You can run Get-BrokerAccessPolicyRule -DesktopGroupName '' to verify that HDX SSL is enabled \$true where is the name of the Delivery Group Containing the VDAs. You can run Get-BrokerAccessPolicyRule -DesktopGroupName '' to verify that HDX SSL is enabled \$true where is the name of the Delivery Group Containing the VDAs. 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The Citrix blog post How To Secure ICA Connections in XenApp and XenDesktop 7.6 using SSL has a method for automatically provisioning certificate has been enrolled. From Russ Hargrove at A note on VDA certificates in 7.14 at Citrix Discussions: Citrix XenApp/XenDesktop HDX Service" certificates in 7.14 at Citrix XenApp/XenDesktop HDX Servi Certificate ThumbPrint (Get-ChildItem -path cert:\LocalMachine\My | Where-Object -FilterScript {\$_.Subject -eq ""} | Select-Object -ExpandProperty Thumbprint) -Confirm: \$False For certificate auto-enrollment on non-persistent Remote Desktop Session Hosts (aka Server OS VDAs), see Non-Persistent Server SSL to VDA by Alfredo Magallon Arbizu at CUGC. Anonymous Accounts If you intend to publish apps anonymously then follow this section. Anonymous accounts are created locally on the VDAs. When XenDesktop creates Anon accounts it gives them an idle time as specified at HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\Control\Citrix\AnonymousUserIdleTime. The default is 10 minutes. Adjust as desired. Pre-create the Anon accounts on the VDA by running "C:\Program Files\Citrix\ICAConfigTool\CreateAnonymous users can't login. You can see the local Anon accounts by opening Computer Management, expanding System Tools, expanding Local Users and Groups and clicking Users. If you want profiles for anonymous users to delete at logoff, then you'll need to add the local Anon users to the local Anon users to the local Anon users to the local accounts, on the Sessions tab, notice that idle timeout defaults to 10 minutes. Feel free to change it. Group Policy for Anonymous users are local accounts on each Virtual Delivery Agent, domain-based GPOs will not apply. To work around this limitation, you'll need to edit the local group policy on each Virtual Delivery Agent, run mmc.exe. Open
the File menu, and click Add/Remove Snap-in. Highlight Group Policy Object Editor, and click Add to move it to the right. In the Welcome to the Group Policy Wizard page, click Browse. On the Users tab, select Non-Administrators. Click Finish. Now you can configure group policy, you'll need to repeat the group policy configuration on every Virtual Delivery Agent image. Also, Group Policy Preferences is not available in local group policy. Antivirus Install antivirus using your normal procedure. Instructions vary for each Antivirus Best Practices: provides guidelines for each Antivirus Exclusions Citrix Tech Zone Endpoint Security and Antivirus Best Practices: provides guidelines for configuring antivirus software in Citrix Virtual Apps and Desktops environments Citrix Recommended Antivirus exclusions: the goal here is to provide you with a consolidated list of recommended antivirus exclusions for your Citrix virtualization environment focused on the key processes, folders, and files that we have seen cause issues in the field: Set real-time scanning to scan local drives only and not network drives Disable scan on boot Remove any unnecessary antivirus related entries from being scanned Exclude IIS log files from being scanned See the Blog Post for exclusions for each Citrix component/product including: StoreFront, VDA, Controller, and Provisioning Services. The Blog Post also has links to additional KB articles on antivirus. Symantec Symantec links: Trend Micro Trend Micro Trend Micro Trend Micro Slow login on Citrix environment after installing OfficeScan (OSCE): The following registries can be used to troubleshoot the issue. These registries will allow a delay on the startup procedure of OSCE until the system has launched successfully. This avoids deadlock situations during login. Citrix cTX136680 - Slow Server Performance After Trend Micro Installation. servers. At some point the performance of the servers is affected, resulting in issues with users logging on and requiring the servers. Add new DWORD Value as: [HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\Services\TmFilterParameters] "DisableCtProcCheck"=dword:00000001 Trend Micro Links: Sophos on virtual systems: we've amassed the following practical information about how you can optimize our software to work with this technology Sophos Anti-Virus for Windows XP+: Installation and configuration considerations for Sophos Anti-Virus on a Remote Desktop Services server: It maybe desirable to disable the Sophos Anti-Virus for Windows 2000+: incorporating current versions in a disk image, including for use with cloned virtual machines: This procedure will make sure that the produced target/cloned computers: Get their distinct identity with Enterprise Console, under which they can be subsequently managed. Have the desired version of Sophos Anti-Virus already installed and configured on the created image. Palo Alto Traps Install Traps Agent for Windows: Virtual desktop infrastructure (VDI) installation—Intended for non-persistent endpoints that replicate (also referred to as spawn) from a golden image which has Traps installed. Windows Defender Antivirus Deployment guide for Windows Defender Antivirus in a virtual desktop infrastructure (VDI) environment Cylance must be run in compatibility mode in order to the VDA and Cylance to run on the same machine. See the article for detailed instructions. Optimize Performance VDA Optimizer Installation of the VDA might have already done this but there's no harm in doing it again. This tool is only available if you installed VDA in Master Image mode. On the master VDA, go to C:\Program Files\Citrix\PvsVm\TargetOSOptimizer, and run TargetOSOptimizer.exe. Then click OK. Notice that it disables Windows Update. See CTX125874 How to Optimize XenDesktop Machines for the list of registry values changed by the TargetOSOptimizer tool. You can use Group Policy Preferences to set these values. Windows 2012 R2 / Windows 2016 and newer Citrix Blog Post Citrix Optimizer 2.6 - What's new. Citrix Optimizer Community Template Marketplace - for more templates, add the Community Template Marketplace. Select a template (or download one from the Marketplace). Then click Optimization Tool. See VMware Windows Operating System Optimization Tool Guide Technical Paper for details on this tool has templates for Windows 10/2016, plus templates for older versions of Windows. Citrix Daniel Feller links: James Rankin Improving Windows 10 logon time: David Wilkinson links: Citrix CTX131577 XenApp 6.x (Windows 2008 R2) - Optimization Guide is a document with several registry modifications that are supposed to improve server performance. Ignore the XenApp 6 content and instead focus on the Windows content. Norskale has Windows 7 Microsoft has compiled a list of links to various optimization guides. It's a common practice to optimize a Windows 7 virtual machine template (or image) specifically for VDI use. Usually such customizations include the following. Minimize the footprint, e.g. disable some features and services that are not required when the OS is used in "stateless" or "non-persistent" fashion. This is especially true for disk-intensive workloads since disk I/O is a common bottleneck for VDI deployment. (Especially if there are multiple VMs with the same I/O patterns that are timely aligned). Lock down user interface (e.g. optimize for specific task workers). With that said the certain practices are quite debatable and vary between actual real-world deployments. Exact choices whether to disable this or that particular component depend on customer requirements and VDI usage patterns. E.g. in personalized virtual desktop scenario there's much less things to disable since the machine is not completely "stateless". Some customers rely heavily on particular UI functions and other can relatively easily trade them off for the sake of performance or standardization (thus enhance supportability and potentially security). This is one of the primary reasons why Microsoft doesn't publish any "VDI Tuning" guide officially. Though there are a number of such papers and even tools published either by the community or third parties. This Wiki page is aimed to serve as a consolidated and comprehensive list of such resources. Daniel Ruiz XenDesktop Windows 7 Optimization and GPO's Settings Microsoft Whitepaper Performance Optimization Guidelines for Windows 7 Desktop Virtualization Services and Shut Down If this VDA will be a master image in a Machine Creation Services or Provisioning Services catalog, after the master is fully prepared (including applications), do the following: Go to the properties of the C: drive, and run Disk Cleanup. If Disk Cleanup is missing, you can run cleaning up temporary Files. Right-click the Start button, and click System. Click Storage on the left, and click This PC (C:) on the right. Click Temporary Files. Check boxes, and click Remove files. On the Tools tab, click Optimize to defrag the drive. `Run slmgr.vbs /dlv and make sure it is licensed with KMS and has at least one rearm remaining. It is not necessary to manually rearm licensing. XenDesktop will do it automatically. Run Delprof2 to clean up local profiles. Get it from . Machine Creation Services and Provisioning Services require DHCP. Session hosts (RDSH) commonly have DHCP reservations. Base Image Script Framework (BIS-F) automates many sealing tasks. The script is configurable using Group Policy. Shut down the master image. clones. Troubleshooting - Graphics If Windows 7 on vSphere, don't install the VMware SVGA driver. For more details, see CTX201804 Intermittent Connecting from Multi-Monitor Client Machines to Windows 7 VDA with VDA 7.x on vSphere/ESXi. For Citrix Policies that control graphics codecs, see Citrix Blog post - Optimising the performance of HDX 3D Pro - Lessons from the field From Citrix Knowledgebase article CTX218217 Unable to span across multiple monitors after upgrade to 7.11 VDA, Black/Blank screen appears on the monitors while connecting to ICA session: For VDA 7.11 and newer, calculate the video memory that is required for monitors using the following formula : SumOfAllMons (Width * Height) * 4 / 0.3, where width and height are resolution of the monitor 1 is 1920*1200 + 1366*768. Then SumOfAllMons will be (1920*1200 + 1366*768) CTX115637 Citrix Session Graphics Memory Reference describes how multi-monitor resolution is determined. Open the registry (regedit) and navigate to: HKEY LOCAL MACHINE\SYSTEM\CurrentControlSet\services\vbdenum Increase the value of "MaxVideoMemoryBytes" REG DWORD value to the above calculated memory. Reboot the VDA From Citrix Discussions: To exclude applications from Citrix 3D rendering, create a REG DWORD registry value "app.exe" with value 0 or a registry value "app.exe" with value 0 or a registry value "applications from Citrix vd3d/compatibility /v * /t REG DWORD /f /d 0 x64: reg add hklm/software/Wow6432Node/citrix/vd3d/compatibility /v * /t REG DWORD /f /d 0 XD 7.6/7.7/7.8/7.9/7.11 both x86 and x64: reg add hklm\software\citrix\vd3d\compatibility /v * /t REG DWORD /f /d 0 Wildcards are not supported. The asterisk * here has a special meaning "all apps" but is not a traditional wildcard. To blacklist multiple apps e.g. both appa.exe and appb.exe must be done by creating a registry value for each app individually. This is most problematic in Remote PC since most physical PCs have GPUs. I recently had to blacklist Internet Explorer to prevent lockup issues when switching back to physical. Uninstall VDA Uninstall the VDA from Programs and Features. Then see CTX209255 VDA Cleanup Utility. To run the VDA Cleanup Tool silently: Execute VDACleanupUtility.exe /silent /noreboot to suppress reboot. Once the VDACleanupUtility has finished executing, setup Auto logon for the current user. Reboot. After reboot, tool will launch automatically to continue Cleanup. Another option is to delete CitrixVdaCleanup value under
HKLM\Software\Microsoft\Windows\CurrentVersion\RunOnce. Then after reboot, run VDACleanupUtility.exe /silent /reboot to indicate that it's running after the reboot. Related Pages

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