

# Lightspeed Live Server

Windows Server 2022 Update



# Overview

This guide explains how to upgrade your Lightspeed Live server's Windows Server 2019 system drives. The upgrade includes:

- Two new 800GB NVMe SSD RAID 1 (*mirrored*) OS drives
- Operating system upgrade to Windows Server 2022
- Current version of Live Capture.

This procedure is valid for Lightspeed Live server models LSL-VC-300 and LSL-VC-100.

The upgrade kit is comprised of two high-performance drives with an unlicensed Windows Server 2022 and Live Capture system image on each drive. It is your responsibility to provide your own Windows Server 2022 license key and back up and restore your Live Capture system.

## Backing Up Your Live Capture System and Data

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**CAUTION:** Before you remove your existing OS drives, it is imperative that you back up your Live Capture database, workflows, and user-created files for migration to the new Live Capture system on the new RAID 1 drives to avoid data loss.

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Refer to the Domain Management Guide, Vantage Database Management guide, and Live Capture Administration Guide for details as appropriate.

## Unpacking the New Drives

Open the kit's shipping box from Telestream, unpack the two drives, placing them near your Lightspeed Live server for easy access. Each is pre-installed in a drive cage, ready for insertion in the bays.

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**CAUTION:** Exercise care when installing drive modules. To avoid damage, wear a static strap and place the drive modules on an anti-static surface.

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## Installing the New Drives

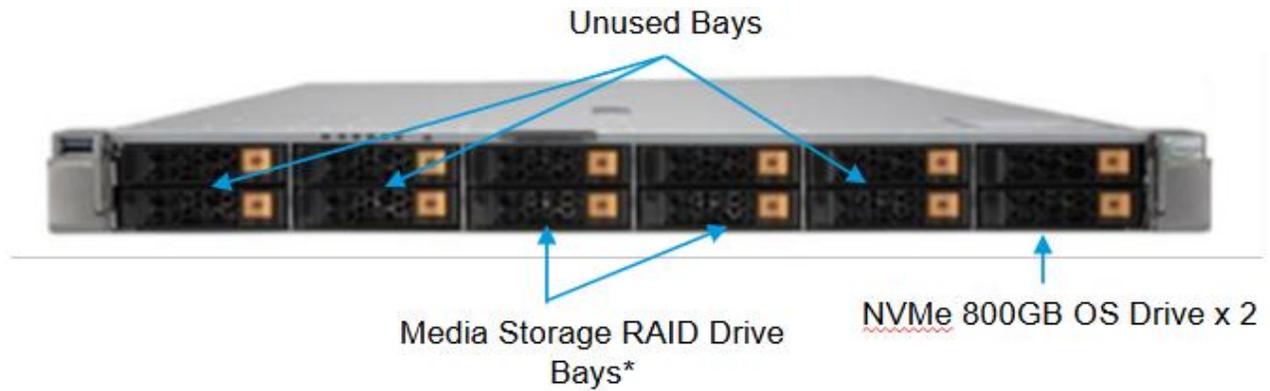
For this task, you require access to the system chassis.

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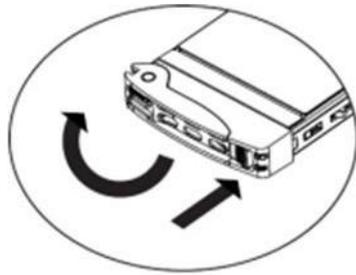
**Note:** Before proceeding, make certain that you have backed up your Vantage database, all of your user-created folders and files, and noted other programs you have installed, and Windows settings that you need to configure in the new system.

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1. Power down the Lightspeed Live server.
2. Remove the front bezel, exposing the front panel drive bays.
3. Remove the existing 800GB NVMe OS drives from the two right bays. This diagram identifies the bays at the far right:



For each drive, press the button to release the lever, fully retract the lever and pull the drive from the bay.

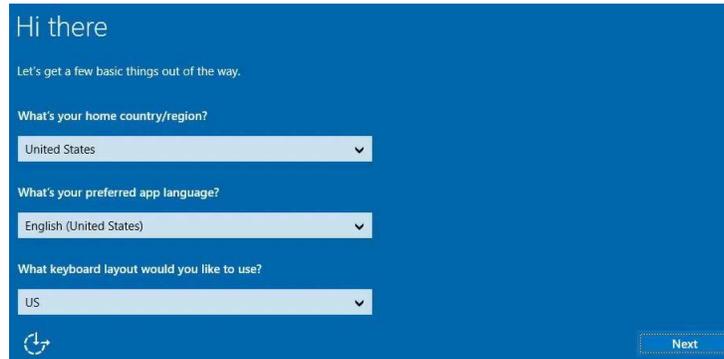


1. Insert one of the new OS drives in each of the now-empty far-right bays—both drives have the same image, so which bay you insert them in is irrelevant.
2. Re-install the bezel.
3. Power the system on and allow it to boot up.

# Configuring Your Server

Use this topic to configure Windows settings, add a password for the Administrator username, add your Windows license, name your computer and join your domain/ workgroup. Consult with your IT department for guidance.

1. When the server reboots for first time use, Windows Server requires some configuration before use. To accomplish this, it displays the Hi There window:



Hi there

Let's get a few basic things out of the way.

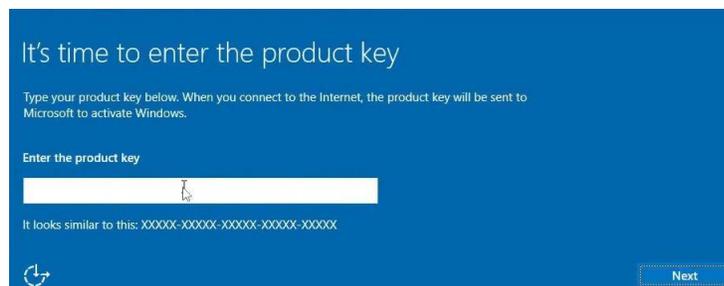
What's your home country/region?  
United States

What's your preferred app language?  
English (United States)

What keyboard layout would you like to use?  
US

Next

2. Make changes as required for your region, language and keyboard and click Next to display the Product Key window:



It's time to enter the product key

Type your product key below. When you connect to the Internet, the product key will be sent to Microsoft to activate Windows.

Enter the product key

It looks similar to this: XXXXX-XXXXX-XXXXX-XXXXX-XXXXX

Next

3. Enter your product key for this instance of Windows Server 2019 and click Next to display the Customize Settings window:



Customize settings

Type a password for the built-in administrator account that you can use to sign in to this computer.

User name: Administrator

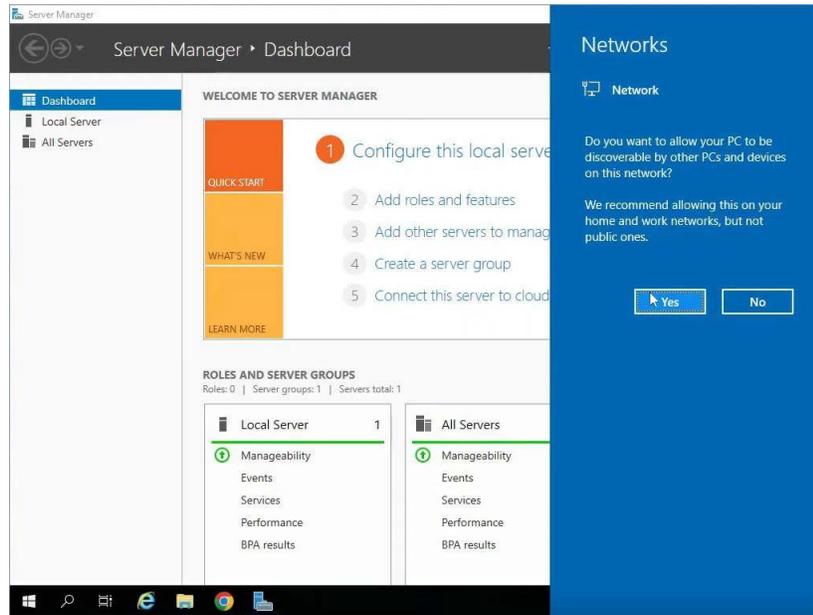
Password: [Redacted]

Reenter password: [Redacted]

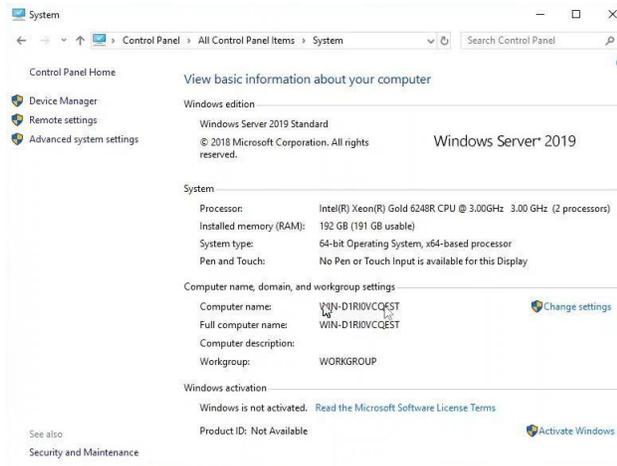
Back Finish

4. Enter a new password for the default Administrator username and click Finish. Windows Server 2019 displays the login window.
5. Enter the new password for the Administrator username you're logging in as, and press Enter.

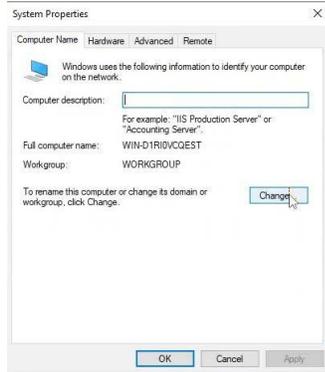
Windows displays the desktop, and launches the Server Manager and a Networks panel to the right:



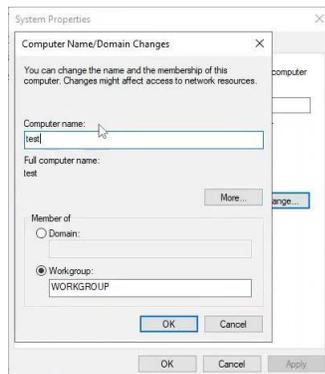
1. Click Yes on the Networks panel and close the Server Manager if it's open.
2. Open the Control Panel > System |



3. Click Change Settings to update the default computer name. Windows displays the System Properties dialog:



4. Click the Change button to display the Computer Name/Domain Changes dialog:



5. In the Computer Name field, enter the name you want for this server; click Domain or Workgroup and enter the domain or workgroup you want this server to be a member of, and click OK.
6. Close the System Properties window and restart the server with a new server name, as a member of the domain/workgroup.

# Configuring the New Drives for RAID 1

To set up the two new drives as RAID 1, follow these steps:

1. Log into the server's Administrator account (password: *telestream!1*).
2. Start the Intel(R) Virtual RAID on CPU program, located in *C:\Program Files (86)\Intel:*
3. On the Home tab, select the SATA SSD (224 GB) (System) drive and click Create Volume. The program displays the Create Volume Step 1 Select dialog.
4. Under Select Controller, select *Intel(R) C600+/C220+ series chipset sSATA RAID Controller*. Under Select Volume Type, select *Real-time data protection (RAID 1)* and click Next. The program displays Step 2.
5. Check the Proceed with Deleting Data control and click Create Volume to start the process. You can view the data migration progress in the Information panel at the bottom of the window.

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**CAUTION:** Do not use the server or make any changes while the program builds the new mirrored, RAID 1 drive. Wait until the process completes. This process may run for about half an hour.

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When the program has created the RAID1 drive set, the Volume Creation Complete dialog displays, as data migration continues. When migration is complete, the message briefly displays 100%:

6. Click OK to dismiss the dialog.
7. Note that the drive now displays in the Volumes panel (center). Select the VOLUME\_0000 volume icon and verify that in the Volume Properties panel (right), Type displays *RAID 1* and Initialized displays *Yes*.
8. Close the program and reboot the server to continue.

## Changing the NVIDIA GPU to Run in TCC Mode

The NVIDIA GPU on Lightspeed Live servers must run in TCC mode, as opposed to default WDDM mode: The NVIDIA GPU executing in TCC mode disables Windows graphics and is used in headless configurations, whereas WDDM mode is required for Windows graphics.

Run this script to set the GPU to TCC mode—follow these steps:

1. Navigate to *C:\vX.X.X\Installers* and open the Windows 2019 folder.
2. Double-click *SetNvidiaDriverModelToTCC.bat* to run the script to set the GPU to run in TCC mode.
3. Restart the server.

# Configuring Your Desktop for Live Capture

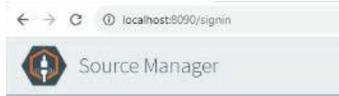
Perform these tasks to set up your desktop for optimal Live Capture operation:

## Adding Vantage and Source Manager Shortcuts

Follow these steps to add desktop shortcuts to Source Manager and Vantage, and apply the correct icons to them.

### **Adding a Source Manager Shortcut**

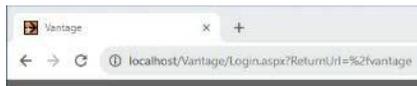
1. Open a browser window and type `http://localhost:8090/` in the address bar.



2. Click and drag the shortcut icon (to the left of the address bar) to the desktop.
3. Right-click the shortcut and select Change Icon to display the Change Icon dialog.
4. Click OK to select the icon and dismiss the dialog, and then click OK to apply the icon to the shortcut and dismiss the Properties dialog.

### **Adding a Vantage Shortcut**

1. Open a browser and type `http://localhost/Vantage` in the address bar.



2. Click and drag the i icon (to the left of the address bar) to the desktop.
3. Right-click on the shortcut and select Change Icon to display the Change Icon dialog.
4. Click Browse and navigate to the installer folder. Select the installer file at `C:\VX.X\Installers\VantageX.X_Setup_X.X.XXX.X` and click Open.
5. Click OK to select the icon and dismiss the dialog, and then click OK to apply the icon to the shortcut and dismiss the Properties dialog.

## Setting Chrome as your Default Browser

Vantage and Live Capture web apps are all designed for execution in Chrome. Follow these steps to make Chrome your default browser.

1. Open the Chrome browser.
2. Click the More menu (at the top right corner of the window) and select Settings.
3. In the Settings panel on the left, click Default Browser.

## Setting your Desktop Wallpaper

1. Right-click on the desktop and select Personalize.
2. In the Personalization window's task panel on the left, select Background.
3. Under the Preview panel Background menu, select Picture and then click Browse to select your wallpaper—the Telestream wallpaper file is a JPEG file,

located in *C:\Wallpaper\*.

4. Click Choose Picture to update the desktop with your new wallpaper.
5. If the icon's font isn't visible against the background, select Solid Color from the menu: If a white font is required, select Gold. If a black font is required, select Red. Next, select the picture. The font should now display properly.

### **Changing your Desktop Theme**

1. Right-click on the desktop and select Personalize.
2. In the Personalization window's task panel on the left, select Themes.
3. Select Desktop Icon Settings to display its dialog.
4. Check all desktop icons or choose those that you want to display on the desktop.
5. Select OK to update your preferences and dismiss the dialog.

### **Turning Off Drive Indexing**

1. Right-click on the *D:\Media* drive and select Properties.
2. In the General tab, uncheck Allow files on this drive to have contents indexed in addition to file properties.
3. In the Confirm Attribute Changes Dialog, ensure that Apply changes to drive D:\ subfolders and files is enabled, and click OK.

### **Setting Windows Visual Effects**

1. Click the desktop search icon (magnifying glass on bottom—left edge of taskbar)
2. In the search field, type *performance* and select *Adjust the appearance and performance of Windows* to display the Performance Options dialog.
3. In the Visual Effects tab, select Adjust for best performance and click OK.

# Updating your New Live Capture System

If you are using Microsoft SQL Server Standard, you should update the SQL Express database on the new RAID 1 drive prior to migration.

Update your new Live Capture system from your database and workflows backups, plus user-created folders and files.

Refer to the Domain Management Guide and the Vantage Database Management guide for information.

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