

Dell Desktop Virtualization Solutions—Simplified 1010 Deployment Guide



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Introduction

The Dell Desktop Virtualization Solutions (DVS) Simplified 1010 is a Dell PowerEdge R710 system powered by Citrix XenServer and VDI-in-a-Box. This document provides the necessary steps required to configure the Dell DVS Simplified 1010 appliance.

NOTE: Dell DVS Simplified 1010 must be configured and managed before virtual desktops can be deployed.

The components of the single server solution architecture are illustrated in the figure below:

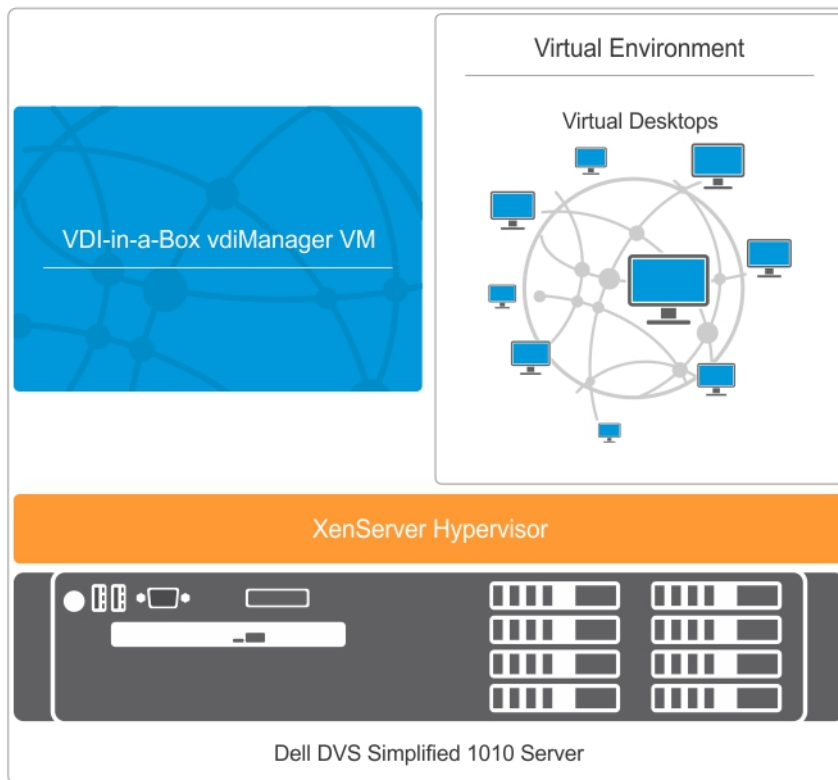


Figure 1. Single Server Architecture

System Requirements

Before you proceed with the configuration of Dell DVS Simplified 1010, ensure that the Dynamic Host Configuration Protocol (DHCP) server is available in your environment. For more information on supported virtual desktops and client systems, see the Compatibility Matrix in *Dell Desktop Virtualization Solutions—Simplified 1010 Solutions Guide* at support.dell.com/manuals.

DVS Simplified 1010 Setup

This section explains three steps to configure the DVS Simplified 1010 before virtual desktops can be deployed.

1. Connect and Configure Physical Connections
2. Configure the Hypervisor
3. Configure the vdiManager

Step 1: Connecting And Configuring Physical Connections

You can use the following types of networks to configure your physical connections:

- Gb1 Network Connection—Used to access the vdiManager and virtual desktops.

NOTE: Gb1 network must reach Dynamic Host Configuration Protocol (DHCP) server as it dynamically assigns IP addresses to vdiManager and virtual desktops. This IP address is used to access the vdiManager after the appliance boots.

- Gb3 Network Connection—Used to manage and access the XenServer hypervisor.
- Integrated Dell Remote Access Controller (iDRAC)—Used for hardware management.

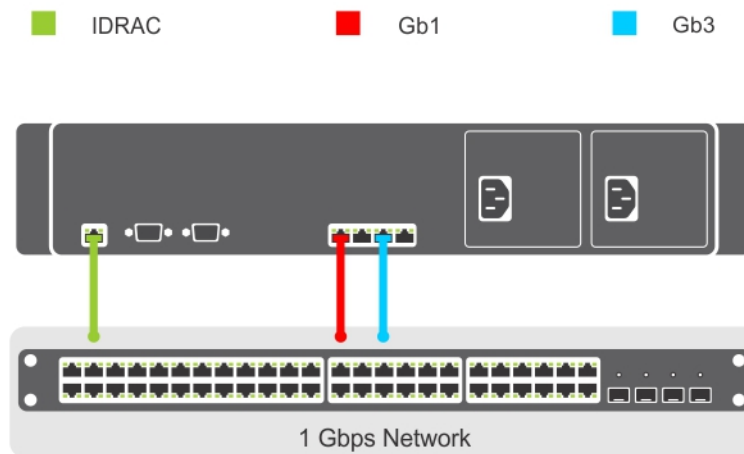


Figure 2. Physical Network Connections


Step 2: Configuring The Hypervisor

After all the network connections are established, to configure the hypervisor (XenServer):

1. Connect to the console on the server to configure the hypervisor.

After the server is booted, an End User License Agreement (EULA) is displayed.

2. Click the checkbox to accept the EULA.
3. Enter the root password for the hypervisor.


 **NOTE:** Save the password to configure the vdiManager at a later stage.

4. To assign an IP address for the XenServer hypervisor:
 - a) Select the **Network and Management** interface.
 - b) Select the **Configure Management** interface and enter the required credentials.
 - c) Select **eth2** (Gb3 network connection) as the management interface.
 - d) Select **Static**.
 - e) Enter the **IP address**, **netmask**, and **hostname** of the hypervisor.

Step 3: Configuring The vdiManager

After the hypervisor is setup, configure the Citrix VDI-in-a-Box vdiManager, using either of the following conditions:


- Creating A New VDI-in-a-Box Grid.
- Joining An Existing Grid.

 **NOTE:** The IP address of vdiManager is required to access the web interface of Citrix VDI-in-a-Box environment.

Creating A New VDI-in-a-Box Grid

To setup VDI-in-a-Box grid for the first time:

1. Connect XenCenter to the VDI-in-a-Box appliance.
2. Select the Virtual Machine (VM) named **vdiManager_Xen**.

 **NOTE:** If vdiManager is not started, highlight the VM , right click and select **Start**.


3. Select the **Networking** tab to find the IP address of the vdiManager.
4. Open a web browser and enter the following URL to access the console: **http://<IP ADDRESS>/admin**, where *IP ADDRESS* is the address of the vdiManager obtained in Step 3.
5. Login to the web console with the following credentials:

User name: vdiadmin


Password: kaviza

A welcome screen is displayed.

6. Click **Get Started**.
A window is displayed listing the steps and pre-requisites required to generate desktops for user.
7. Select **Set up your Hypervisor and VDI-in-a-Box grid** and click **Continue**.
VDI-in-a-Box Initial Set up window is displayed.
8. In the **Hypervisor** section, enter **IP address**, **User name**, and **password** to configure and connect the XenServer hypervisor in step 5, click **Next**.
9. In the **Datastore** section, select **Local storage** from the **Datastore** drop down menu and select **Network 0** for the **Network Label** field, click **Next**.

 **NOTE:** Network 0 corresponds to Gb1, the name for VDI network.

10. In the **Grid** section, select **Create a new VDI-in-a-Box grid** radio button and click **Next**.
11. In the **Configuration** section, enter the **New Grid name** and select the **User Database**.
12. Select **Active Directory** to integrate VDI-in-a-Box desktops to the Active Directory domain and click **Next**.

 **NOTE:** If **Microsoft Active Directory** is selected, the details such as **IP address**, **Domain**, **User name**, and **Password** must be provided to access the directory server.

After the configuration, a pop-up window is displayed asking if vdiManager has a dedicated IP address.

13. Select **Yes** or **No** according to your requirement and click **Done**.

Joining An Existing Grid


To join an existing grid:

1. Follow steps 1–9 to complete the first time VDI-in-a-Box setup.
2. In the **Grid** section, select **Join a VDI-in-a-Box server on an existing grid** and click **Next**.
3. In the **Configuration** section, enter the **IP address** of the vdiManager in the existing grid.
4. Enter your vdiManager console user name and password in the **User name** and **Password** fields.
5. Click **Next**.

The grid is configured.

For more information on how to begin the import and deployment of desktop images, see support.citrix.com/proddocs/topic/vdi.

Licensing Information

-  **NOTE:** To start or create new virtual guests, you must activate your free XenServer edition within 30 days from first boot. To request and activate your free license, see the *XenServer 5.6 Feature Pack 2 Installation Guide* at citrix.com/mycitrix.

Activating A Free XenServer Product

1. To request an activation key from Citrix using XenCenter:
 - a) On the **Tools** menu, select **License Manager**.
 - b) Select one or more hosts that you want to activate, click **Activate Free XenServer**, and select **Request Activation Key**.


The Citrix XenServer Activation page is displayed on your default web browser.

-  **NOTE:** If you are unable to connect to the activation page, you can save a .txt file locally with the activation request information. You can upload this .txt file to activate.vmd.citrix.com at a later time.

- c) Enter your details in the activation form and click **Submit**.
You will receive the activation key (.xslic file) in an e-mail. It may take up to 30 minutes to receive the license key on e-mail.
 - d) Save the activation key to a location on the computer running XenCenter.
2. To apply the activation key to your XenServer host using XenCenter:
 - a) On the **Tools** menu, select **License Manager**.

-  **NOTE:** To open the XenCenter License Manager, double-click the activation key file (.xslic file).

- b) Select the appropriate host, click **Activate Free XenServer**, and select **Apply Activation Key**.

-  **NOTE:** You can activate only one host at a time.

- c) Browse to the location where you saved the activation key file and select **Open**.

To install an activation key using the xe command line interface (CLI), open a console on the host (or connect to the host via Secure Shell (SSH) protocol) and run the following command:

```
xe host-license-add [license-file=<<path/license_filename>>]
```

Generating A License For VDI-in-a-Box

To get VDI-in-a-Box license from Citrix:

1. Log on to **MyCitrix.com** using the credentials given by Citrix.
2. Navigate to **MyTools** → **Choose a Toolbox** → **Manage Licenses**.
3. Select **Allocate**.
4. Select the Citrix VDI-in-a-Box license pertaining to your order and click **Continue**.
5. In **Quantity**, enter the quantity of licenses to allocate and click **Continue**.
6. Click **Confirm** to complete the license allocation and generate the license.
A message prompts you to download the license file(s).

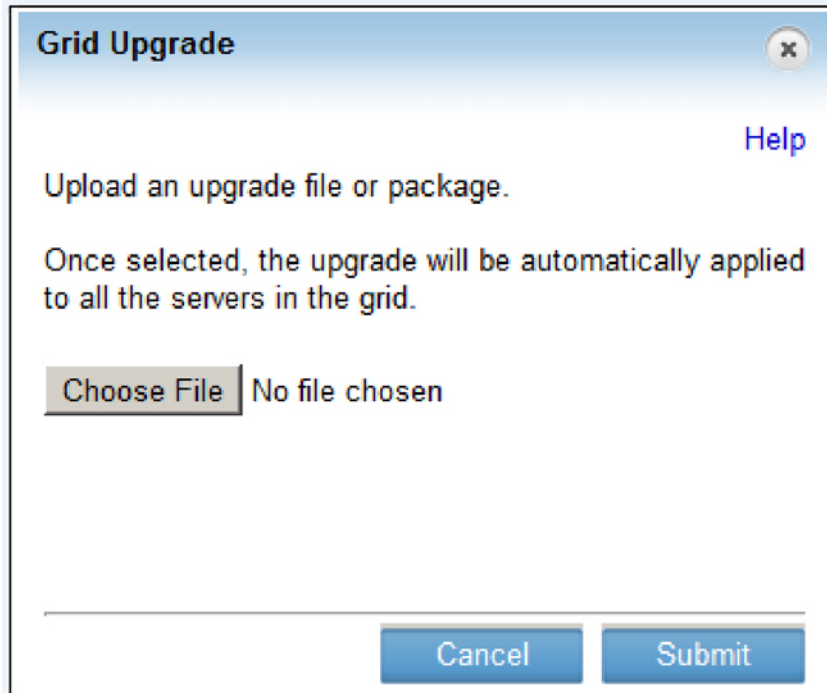
7. Click **OK** and download the license file(s).

Applying A License To VDI-in-a-Box

After receiving the license from Citrix, apply the license to VDI-in-a-Box. Before applying the license, put the grid in maintenance mode.

1. Go to **Admin Tab** → **Click Grid Maintenance** and click **OK**.
2. On **Admin page**, click **Grid Upgrade**.

The **Grid Upgrade** dialog box is displayed.



3. Click **Choose File**, browse to the upgrade or license file, and click **OK**.
4. Click **Submit**.
5. Log on to vdiManager when prompted.
6. Go to **Admin Tab** → **Click Grid Maintenance** and click **OK**.

After applying the license, take the grid out of maintenance mode.

For more information, see support.citrix.com/proddocs.