

# Dell EMC VxBlock™ Central

## Getting Started Guide

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# Revision history

Date	Document revision	Description of changes
July 2019	1.1	Updated with links to VxBlock Central 2.0 documents.
July 2019	1.0	Initial release.

# Introduction

This document provides an overview of how to install and upgrade VxBlock Central, including Base, Workflow Automation, and Advanced Analytics, and provides information on the available workflows.

See the [Glossary](#) for terms, definitions, and acronyms.

# VxBlock Central overview

The Dell EMC Converged System Architecture Overviews include an overview of VxBlock Central. See the following list for the link to the Architecture Overview for your Converged System:

- [Dell EMC VxBlock™ System 1000 Architecture Overview](#)
- [Dell EMC VxBlock™ and Vblock™ System 740 Architecture Overview](#)
- [Dell EMC VxBlock™ and Vblock™ System 540 Architecture Overview](#)
- [Dell EMC VxBlock™ and Vblock™ System 350 Architecture Overview](#)
- [Dell EMC VxBlock™ and Vblock™ System 340 Architecture Overview](#)
- [Dell EMC VxBlock™ and Vblock™ System 240 Architecture Overview](#)

# Installation

The *VxBlock Central Installation Guide* guides you through the installation.

## Installation tasks

The following tables describe high-level tasks to install VxBlock Central and the estimated time required to complete the task.

### Install VxBlock Central Base

Task	Estimated time
<b>Pre-installation tasks</b>	
Verify system requirements	5 minutes
Download OVA files for Core VM, MSM VM, and MSP VM	10 to 12 minutes for each OVA (sized around 2-3 GB)
<b>Installation tasks</b>	
Install and configure Core VM	10 to 15 minutes
Install and configure MSM VM	10 to 15 minutes
Install and configure MSP VM for RCM content prepositioning feature (optional)	10 to 15 minutes
<b>Post-installation tasks</b>	
Accept the end user license agreement	5 to 10 minutes
Configure Isilon and cabinet components (optional)	5 minutes
Configure components to send traps	5 minutes for each component
Access VxBlock Central dashboard	5 minutes
Add and configure system and components in VxBlock Central	40 to 50 minutes
Configure Secure Remote Services in VxBlock Central	10 to 15 minutes
Upload and install the latest compliance content	5 to 10 minutes
Tailor a RCM profile (optional)	5 minutes

### Install VxBlock Central Workflow Automation (if licensed)

Follow the plug-in download and installation process to install the latest workflow package.

 **Note:** Workflow Automation is available on the VxBlock 1000, VxBlock 740, VxBlock 540, and VxBlock 350.

Task	Estimated time
<b>Pre-installation tasks</b>	
Download VxBlock Central Orchestration Services plug-in and OVA	5 minutes
<b>Installation tasks</b>	
Install and deploy VMware vRealize Orchestration (vRO)	5 to 10 minutes
Install VxBlock Central Orchestration Services Plug-in	5 to 10 minutes



Task	Estimated time
Install VxBlock Central Orchestration Services XtremIO Plug-in (for XtremIO only)	5 to 10 minutes
Deploy VxBlock Central Orchestration Services OVA	5 to 10 minutes
Set up VxBlock Central Orchestration Services	5 to 10 minutes
<b>Post-installation tasks</b>	
Launch VxBlock Central Workflow Automation	5 minutes
Configure VxBlock Central Orchestration Services interfaces	5 minutes
Configure VMware vRO workflows	10 minutes
Configure credentials for VMware vRO workflows	10 minutes

### Install VxBlock Central Advanced Analytics (if licensed)

**Note:** Advanced Analytics is installed at a customer site (if licensed). It is not installed during the logical build of the Converged System. You must complete the pre-installation and installation tasks to install and configure VMware vRealize Operations, which is required to access Advanced Analytics.

Task	Estimated time
<b>Pre-installation tasks</b>	
Download VMware vRealize Operations adapter	1 minute (approximately)
<b>Installation tasks</b>	
Install VMware vRealize Operations adapter	5 to 10 minutes
<b>Post-installation tasks</b>	
Launch VxBlock Central Advanced Analytics	1 minute
Configure the VMware vRealize Operations adapter	5 minutes
Configure MSM VM with VMware vRealize Operations	5 minutes
Add online help for VMware vRealize Operations Manager	3 minutes

### Installation Guide

See the [Dell EMC VxBlock™ Central 2.0 Installation Guide](#) for detailed information.

# Available workflows

The following tables describe the workflows in VMware vRealize Orchestrator (vRO) that help you configure and provision VxBlock System 350, VxBlock 540, VxBlock 740, and VxBlock 1000 components.


## Configuration workflows

To run workflow automation, you need to establish a connection between VMware vRO and VxBlock Central Orchestration services using the configuration workflows.

Workflow	Task
Add VxBlock Central Orchestration Services API gateway	To add an API gateway that VMware vRO uses to access credentials and endpoints in VxBlock Central Orchestration Services.
Update VxBlock Central Orchestration Services API gateway	To update an API gateway that VMware vRO uses to access credentials and endpoints in VxBlock Central to the correct API gateway URL.
Add a VMware vCenter server instance	To add a VMware vCenter instance, credentials, and domain name for VMware vRO workflows to function.

## Service workflows

Service workflows help you provision Cisco UCS B-Series blades and add them to a host cluster. After you run a service workflow, a corresponding fulfillment workflow is created using the same service profile, which you can run to provision up to five blades at a time.

Workflow	Task
Provision Host (Bare Metal)	These workflows help you create a service profile from a service profile template and associate the profile with one to five Cisco UCS B-Series blade server in your Bare Metal VxBlock 740 and VxBlock 1000 system.
Provision Host (Bare Metal) - VMAX3/PowerMax Boot	
Provision Host (ESXi) & Add Host to Cluster - VMAX3/PowerMax Boot	These workflows help you create a service profile from a service profile template and associate the profile with one to five Cisco UCS B-Series blade server in your VxBlock System with virtualization. These workflows also help you do the following: <ul style="list-style-type: none"> <li>Determine unprovisioned hosts</li> <li>Identify available resources</li> <li>Select the corresponding zoning and masking</li> <li>Install ESXi</li> <li>Add servers to an existing ESXi cluster</li> </ul>
Provision Host (ESXi) & Add Host to Cluster - SD Card  <b>Note:</b> Currently this workflow works with VxBlock Systems with VMAX and PowerMax storage arrays.	
Provision Host (ESXi) & Add Host to Cluster - Unity Boot	
Provision Host (ESXi) & Add Host to Cluster - XtremIO Boot	
Add a host to a cluster	This workflow helps you add a provisioned Cisco UCS B-series blade server to a VMware vCenter cluster, enabling you to use the server in the production network in your VxBlock System.

## Fulfillment workflows

A fulfillment workflow is created after you run a service workflow, which allows you to provision multiple Cisco UCS B-Series blade servers using the same service profile created when you run the corresponding service workflow. You can run multiple fulfillment workflows concurrently. A list of the fulfillment workflows:

- Provision Bare Metal Server - UCS
- Provision Bare Metal Server using VMAX Boot LUN
- Provision Host (ESXi) using VMAX Boot LUN
- Provision host (ESXi) using SD Card Boot
- Provision Host (ESXi) using Unity Boot LUN
- Provision Host (ESXi) using XtremIO Boot LUN

# Upgrade

The *VxBlock Central Upgrade Guide* describes upgrading from Dell EMC Vision 3.6.2 and from previous versions of VxBlock Central to the most recent version of VxBlock Central.

See the [Dell EMC VxBlock™ Central 2.0 Upgrade Guide](#) for detailed information.

Task		Estimated time
Verify system requirements		5 minutes
Upgrade verification tasks		10 minutes
Prepare to upgrade VxBlock Central		5 minutes
VxBlock Central simplified upgrade		20 to 25 minutes
Upgrade a VxBlock Central deployment	Upgrade a single MSM VM	20 to 25 minutes
	Upgrade a single site cluster containing multiple MSM VMs	30 to 40 minutes
	Upgrade a multi site cluster	60 to 70 minutes
Upgrade a Core VM		5 to 10 minutes
Upgrade an MSM VM		10 to 15 minutes
Upgrade the MSP VM		5 to 10 minutes
Upgrade a single MSM VM using the simplified upgrade		20 to 30 minutes
Upgrade VxBlock Central Orchestration Services		15 to 20 minutes
Upgrade the VxBlock Central Operations Management Pack		10 to 15 minutes

# VxBlock Central administration

See the administration guide for your Converged System for information about using VxBlock Central to manage your Converged System:

- [Dell EMC VxBlock™ System 1000 Administration Guide](#)
- [Dell EMC VxBlock™ or Vblock™ System 740 Administration Guide](#)
- [Dell EMC VxBlock™ or Vblock™ System 540 Administration Guide](#)
- [Dell EMC VxBlock™ or Vblock™ System 350 Administration Guide](#)
- [Dell EMC VxBlock™ or Vblock™ System 340 Administration Guide](#)
- [Dell EMC VxBlock™ or Vblock™ System 240 Administration Guide](#)