Quick Start Guide

For

Ipswitch Failover v9.0.1

IPSWITCH

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Contents

Quick Start Guide

This guide is intended to provide you with the minimum steps necessary to deploy Ipswitch Failover components within your environment for High Availability purposes. Detailed information about the complete deployment process, configuration, and use of Ipswitch Failover for Disaster Recovery can be found in the Ipswitch Failover Installation Guide and Administrator's Guide.

Introduction

Ipswitch Failover provides a flexible solution that can be adapted to meet most business requirements for deployment and management of critical business systems. Capitalizing on VMware vCenter Server's ability to manage virtual infrastructure assets combined with Ipswitch's application-aware continuous availability technology, Ipswitch Failover brings a best in class solution for protecting critical business systems.

Ipswitch Failover consists of the Ipswitch Failover Management Service that is used to deploy and manage the Ipswitch Failover nodes of the Ipswitch Failover cluster. Ipswitch Failover provides for application aware continuous availability used for protecting critical business systems. The Ipswitch Failover Management Service can be installed on the same system as vCenter Server or another Windows server with access to a remote instance of vCenter Server and is accessible via common web browsers.

Using the Ipswitch Failover Management Service User Interface, users can deploy and manage Ipswitch Failover with the ability to view Ipswitch Failover component status and perform most routine Ipswitch Failover operations from a single pane of glass.

Environmental Prerequisites

Ipswitch Failover supports the following environments listed below.

Supported Environments

- Ipswitch Failover is supported on the following versions of Windows Server
  - Windows Server 2008 R2 x64 Standard/Enterprise//Datacenter
  - Windows Server 2012 x64 Standard/Enterprise/Datacenter
  - Windows Server 2012 R2 x64 Standard/Enterprise/Datacenter

Unsupported Environments

- Ipswitch Failover is not supported across the following:
  - A server where Ipswitch Failover Management Service is already running
  - On a server deployed as a Domain Controller
  - On a server deployed as a Global Catalog
  - On a server deployed as a Domain Name Service (DNS)
  - On an IA-64 Itanium Platform

Pre-Install Requirements

Prior to installing Ipswitch Failover, the following requirements must be met and are in addition to those required for installed applications.

Note: *Microsoft™ .Net Framework 4 must be installed prior to the Failover Management Service installation. If .Net Framework 4 is not installed, EMS Installation will not proceed and you will be prevented from installing Failover Management Service.*

For Ipswitch Failover Management Service:

- vCenter Server 5.1 or later running on Windows Server 2008 R2 or later

Note: *Ipswitch recommends that you open a command window with elevated permissions and launch the* `Ipswitch-Failover-[n]-[n]-[nnnnn]-x64.msi` *file from within the command window.*

For Ipswitch Failover on the Primary node:

Note: *When deploying the Primary server, use a built-in local administrator account to successfully deploy the Primary server.*

- Verify no other critical business applications are installed on the server.
- Verify that there is a minimum of 2GB of available RAM in addition to any other memory requirements for the Operating System or installed applications.
- Verify that a minimum 2GB of free disk space is available on the installation drive for Ipswitch Failover.
- At a minimum, the File Server role must be enabled.
- Verify that all services to be protected are running or set to *Automatic* prior to installation.
- *Register this connection's address in DNS* must be disabled on all NICs on the target server.
- VMware Tools must be installed on the Primary node prior to deployment when the Secondary node is virtual.
- File and Printer Sharing must be enabled on the Primary target server prior to deployment and allowed to communicate through any firewalls.

Firewall Configuration Requirements

When using Windows Firewalls, Ipswitch Failover service can automatically configure Windows firewall rules to open ports required for successful Ipswitch Failover communications. In the event that a firewall other than Windows Firewall is being used, see the Ipswitch Failover Installation Guide for information on configuring Firewalls.

Note: *Ensure that File and Print Server communications are allowed through any configured firewalls.*

Installing Ipswitch Failover

This section provides the installation procedure used to install Ipswitch Failover Management Service and deploy Ipswitch Failover in a virtual-to-virtual (V2V) configuration for High Availability on Windows Server 2008 R2 or Windows Server 2012/R2.

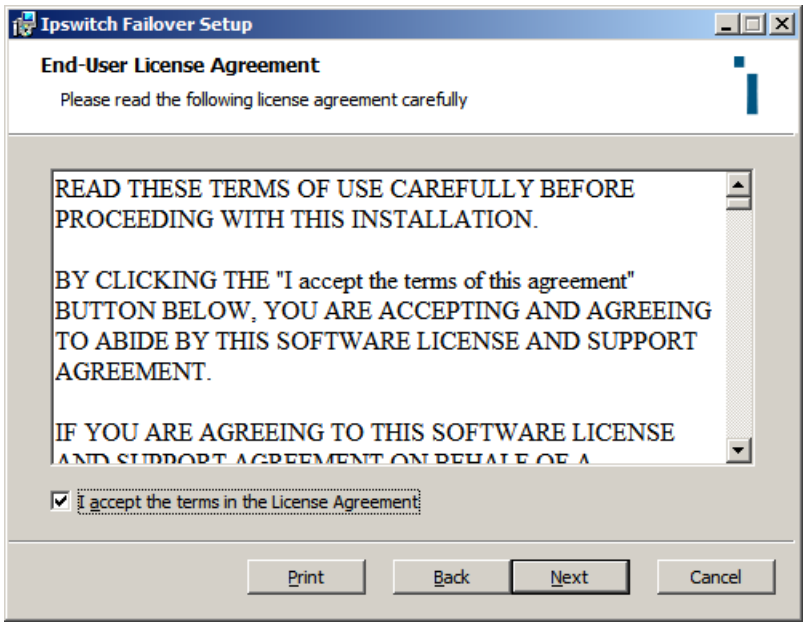
Install Ipswitch Failover Management Service

1. Having verified all of the environmental prerequisites are met, download the Ipswitch Failover Management Service `.msi` file to an appropriate location.

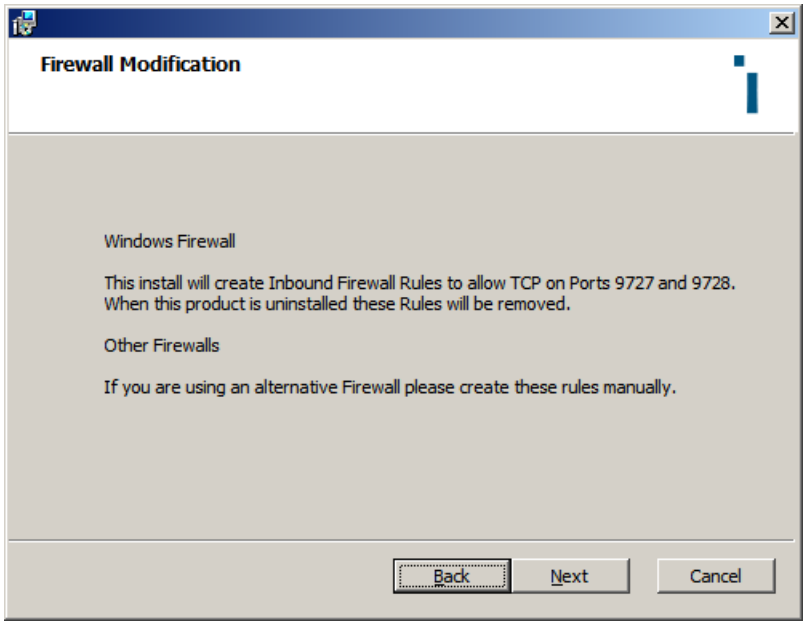
   Note: *The Ipswitch Failover Management Service allows you to install on any server running Windows Server 2008 R2 (64-bit) or later with local or remote connectivity to a vCenter Server.*

2. While logged in as the Local built-in Administrator or Domain built-in Administrator, double-click the `Ipswitch-Failover-[n]-[n]-[nnnnn]-x64.msi` file to initiate installation of the Failover Management Service. The *Welcome* screen is displayed, click **Next**.

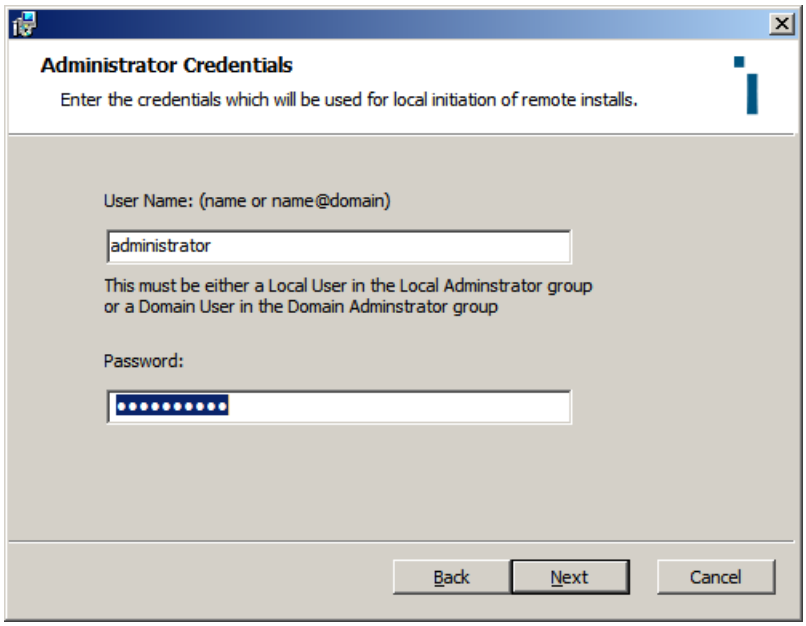
3. Review the *End User License Agreement* and select *I accept the terms in the License Agreement*. Click **Next**.



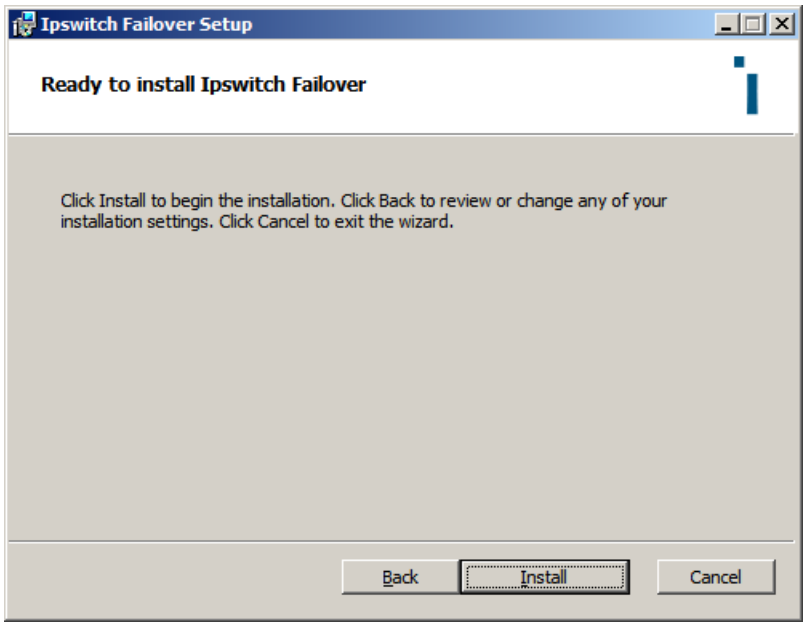
4. The *Firewall Modification* screen is displayed. If using Windows Firewall, the *Inbound Firewall Rules* are created automatically and no actions are necessary. Click **Next**.



5. The *Administrator Credentials* screen is displayed. Enter a Username and Password with Administrator permissions for the server that Failover Management Service is being installed on. Click **Next**.



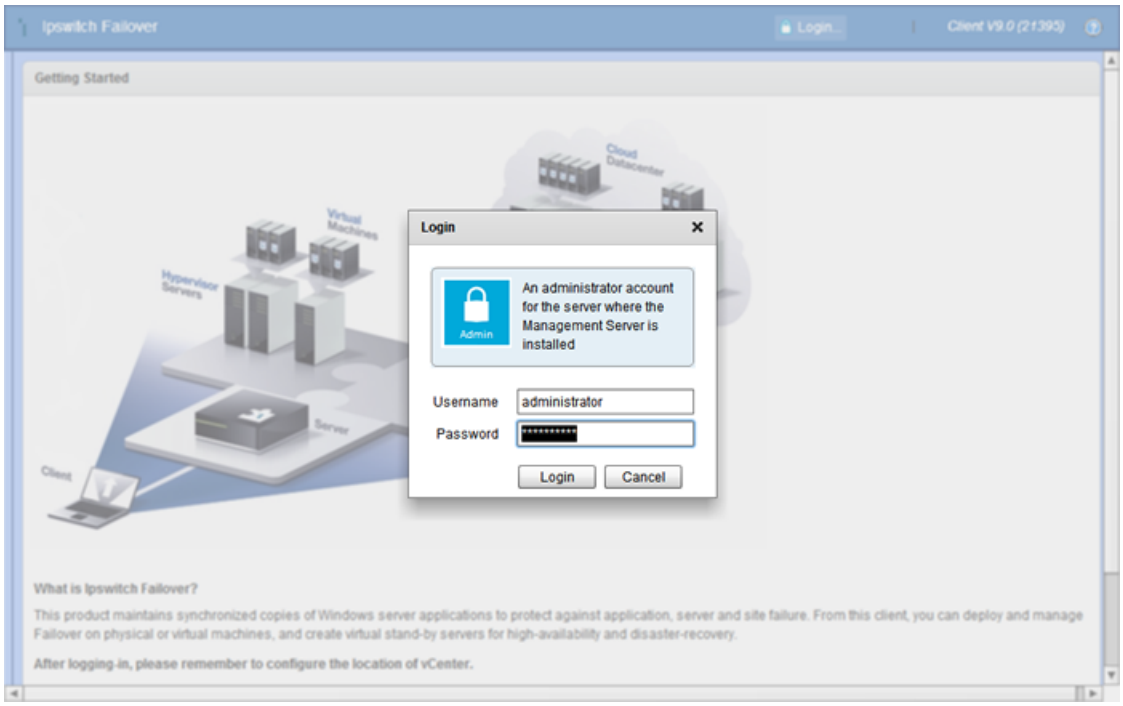
6. The *Ready to install Ipswitch Failover* screen is displayed. Click **Install**.



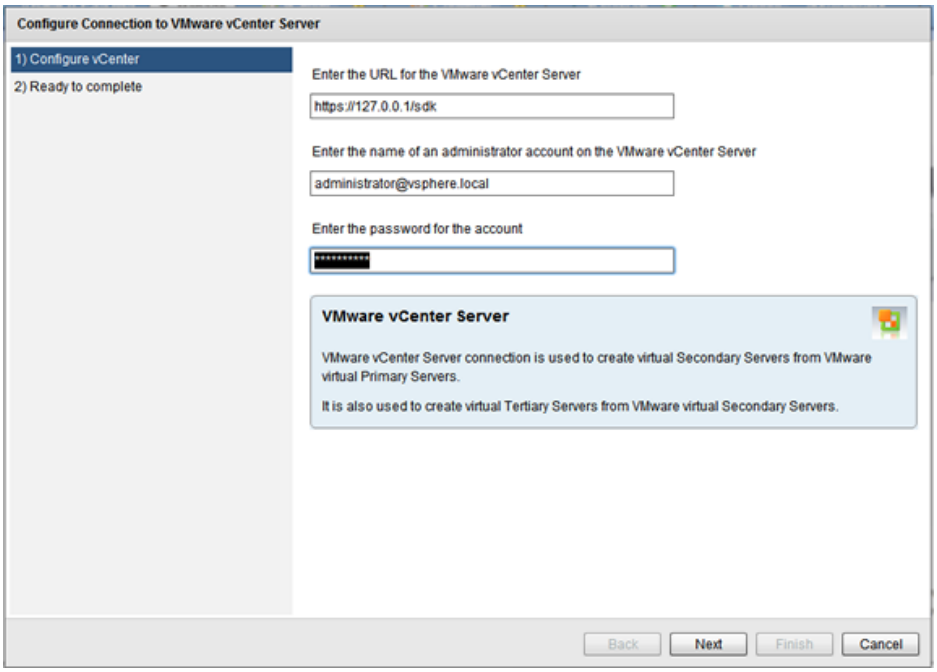
7. The *Installing Ipswitch Failover* screen is displayed. When the installation has finished installing the appropriate components, the *Completed the Ipswitch FailoverSetup Wizard* screen is displayed. Click **Finish**.

Deploy Ipswitch Failover service

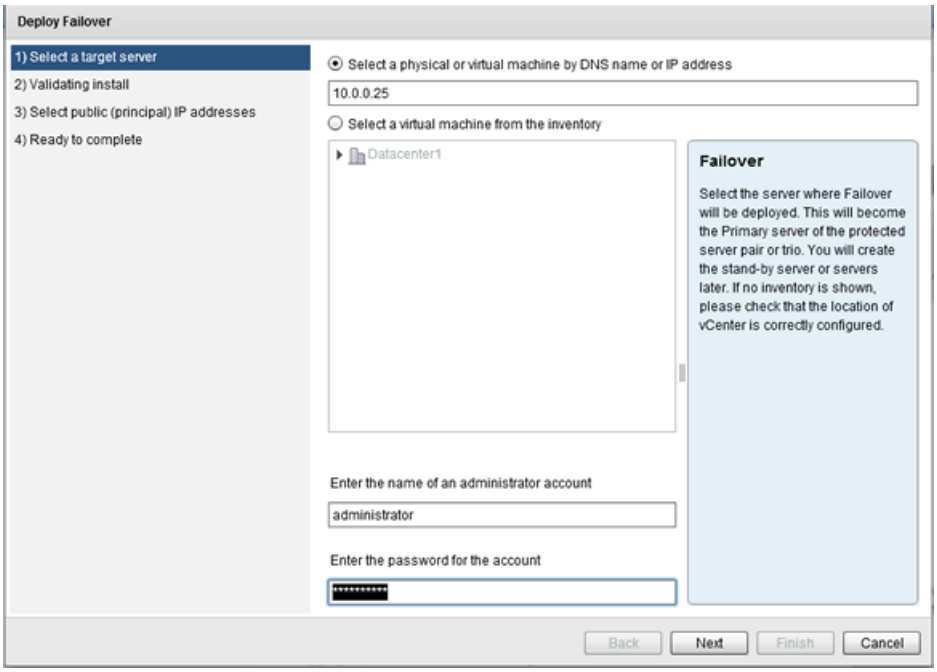
1. Launch the Ipswitch Failover Management Service User Interface. Click on the **Login** button and using an account with Administrator permissions, login to the Failover Management Service.



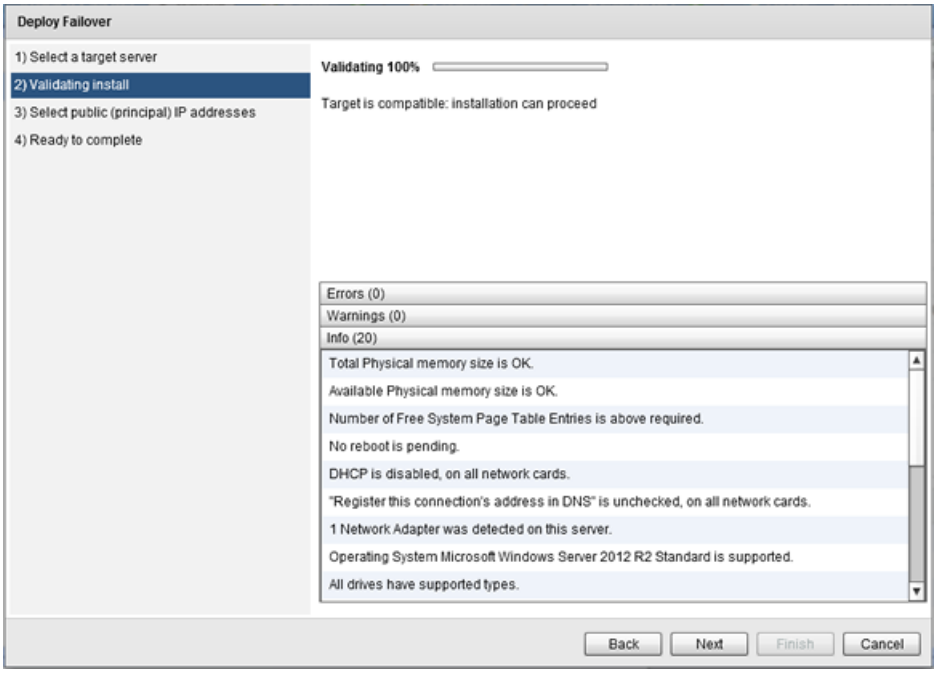
2. Click on the **vCenter** icon. The *Configure Connection to VMware vCenter Server* dialog is displayed.
3. Enter the URL and the credentials of an administrator account for VMware vCenter Server. Click **Next**.



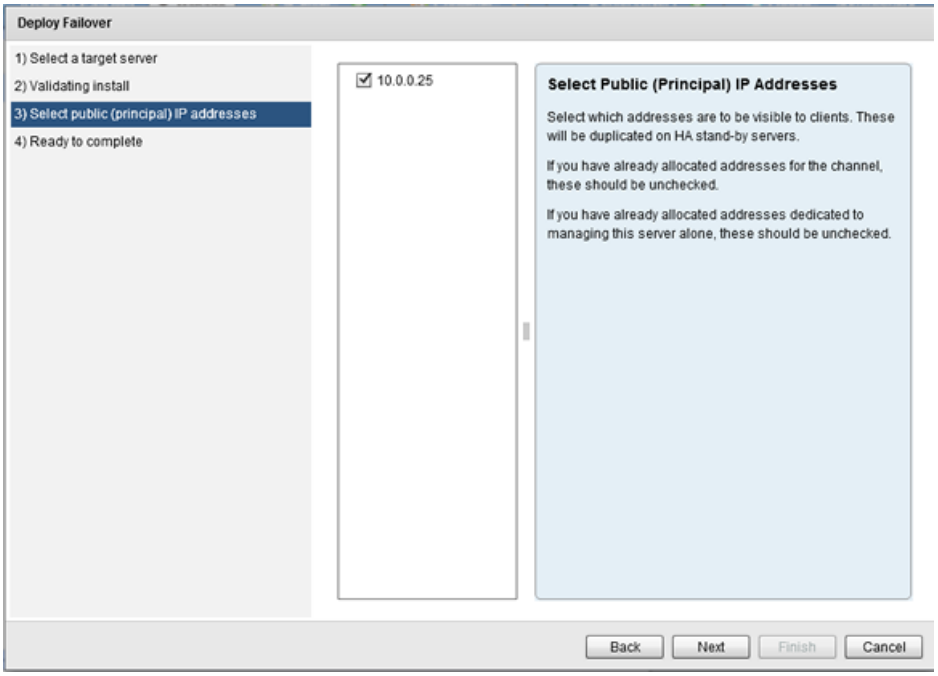
4. The *Ready to Complete* dialog is displayed. Verify the information and click **Finish**.
5. Click on the **Manage** drop-down and select ***Deploy*** > ***Deploy to a Primary server*** to initiate the Primary server deployment wizard. The *Deploy Failover* page is displayed. Either enter the DNS name or IP address of the Primary server, or select a virtual server from the inventory.



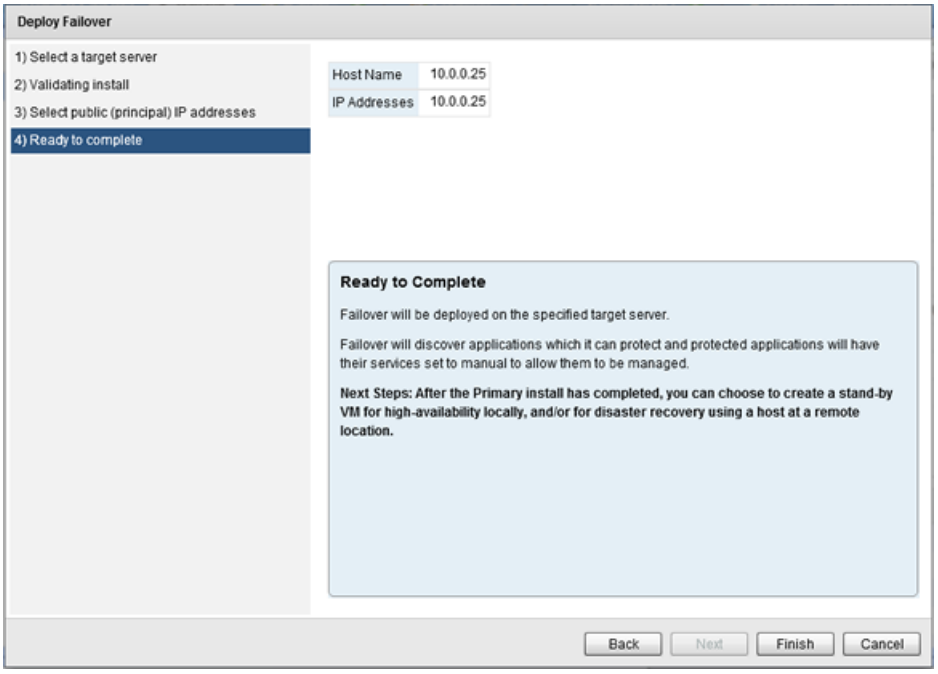
6. Enter credentials for a user that is a member of the local Administrator group on the target server and click **Next**. The *Validating Install* page is displayed. The Failover Management Service automatically configures Windows firewalls allowing installation to continue.



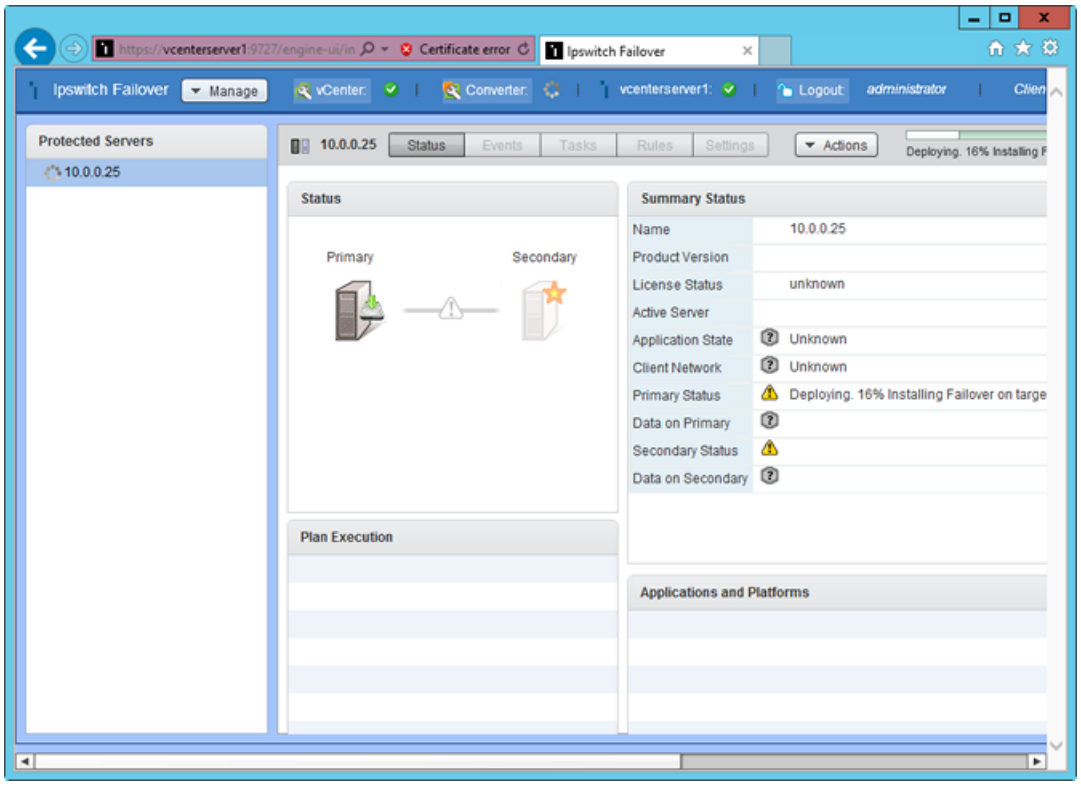
7. Once the *Validating Install* page completes and displays that the server is a valid target, click **Next.** The *Select Public (Principal) IP Address* page is displayed.



8. Validate the Public (Principal) IP address displayed and ensure the check box is selected. Click **Next**. The *Ready to Complete* page is displayed.



9. Review the information and click **Finish**. The installation of the Primary server proceeds.
10. Once installation of the Primary server is complete, in the *Protected Servers* pane, select the Primary server. The *Summary Status* page is displayed.

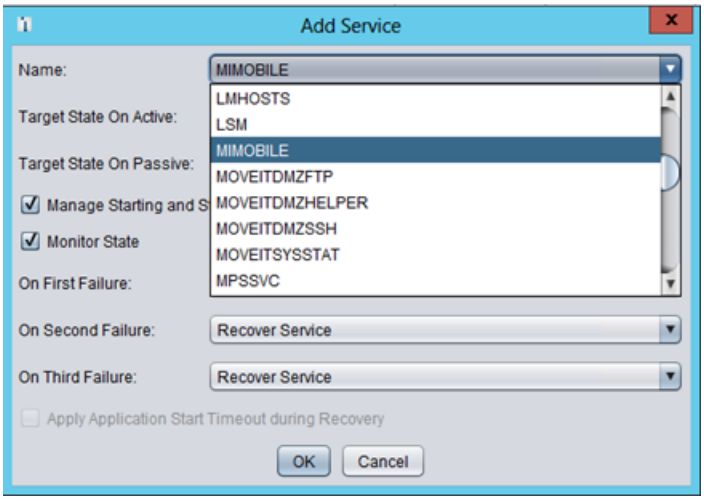


Optional

Important: *For installations that include Ipswitch MOVEit Mobile or Ipswitch Analytics agent, peform the following additional steps.*

1. Add Ipswitch MOVEit Mobile service or Ipswitch Analytics agent service to the protected services.
   a. Start the Ipswitch Failover Manager.
   b. Right-click the *Default Group* and select Add Connection.
   c. Enter `127.0.0.1` or *localhost*.
   d. Enter domain credentials to provide local machine access.
   e. Navigate to *Applications: Services*.
   f. Click **Add** and select:
      - **MIMOBILE** service for Ipswitch Mobile application.

        or
      - **IPSWITCHANALYTICSAGENT** service for Ipswitch Analytics application.

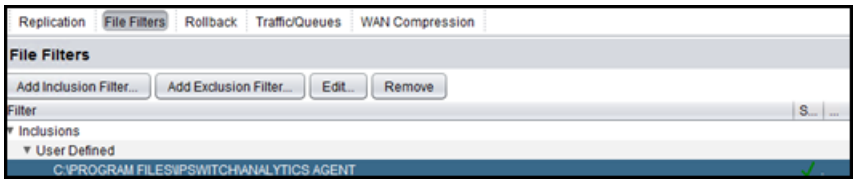


The Ipswitch MOVEit Mobile service or the IPSWITCHANALYTICSAGENT Service is added under the *User Defined* section.

2. Add an Inclusion file filter for the data directories for Ipswitch Mobile or Ipswitch Analytics.
   a. Navigate to *Data: File Filters*.
   b. Click **Add Inclusion Filter**.
   c. Depending on the installation location, enter:
      - C:\PROGRAM FILES (x86)\IPSWITCH\MOVEIT MOBILE**

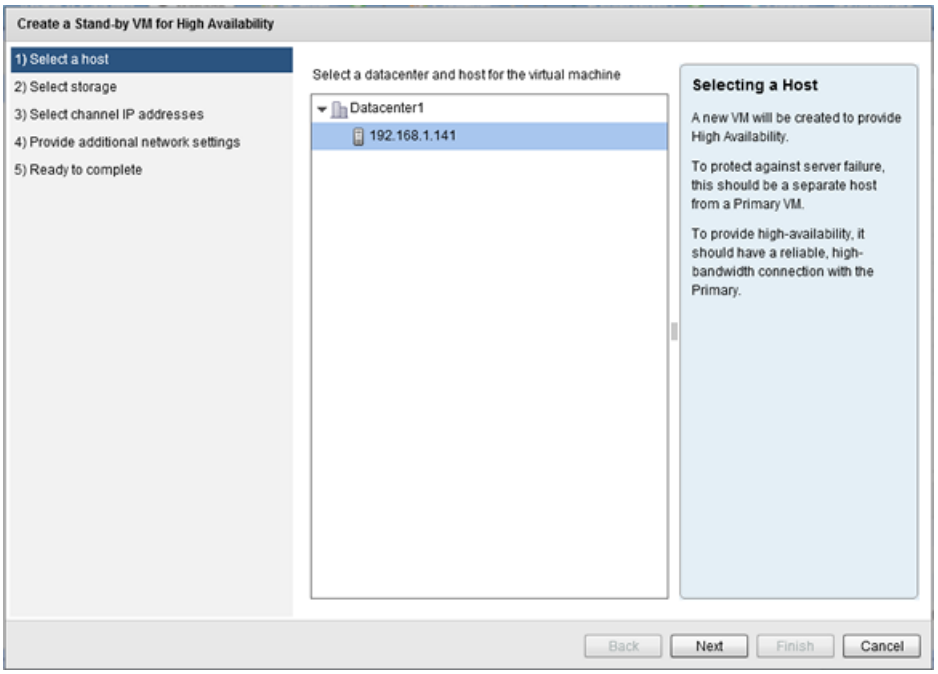
        or
      - C:\Program Files (x86)\Ipswitch \ANALYTICS AGENT**
   d. Click **OK**.

      The installation directory is added under the Inclusion User Defined file filters. For example:

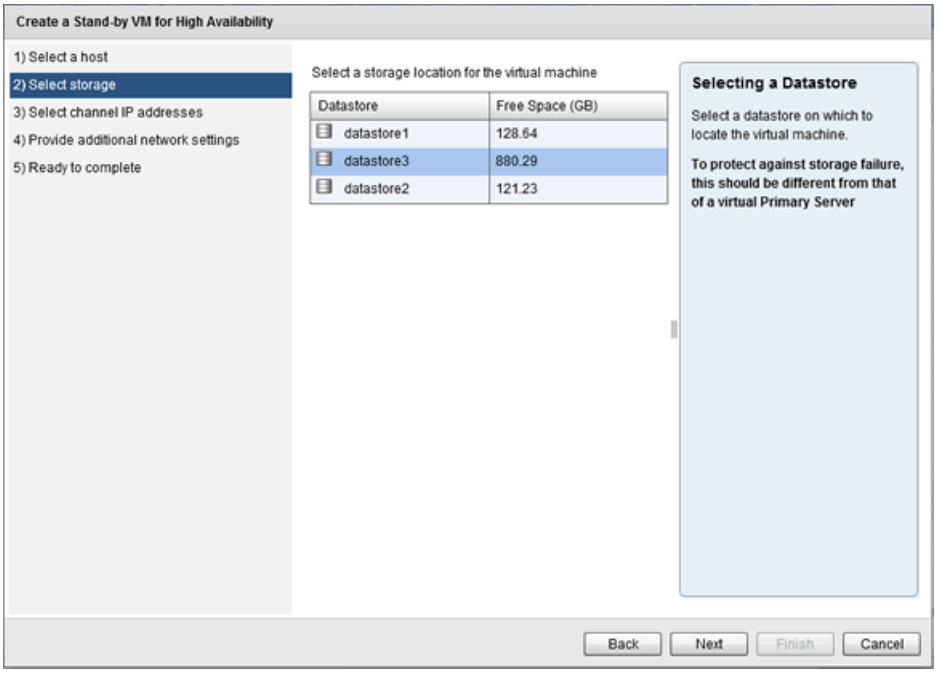


Create a Stand-by VM for High Availability

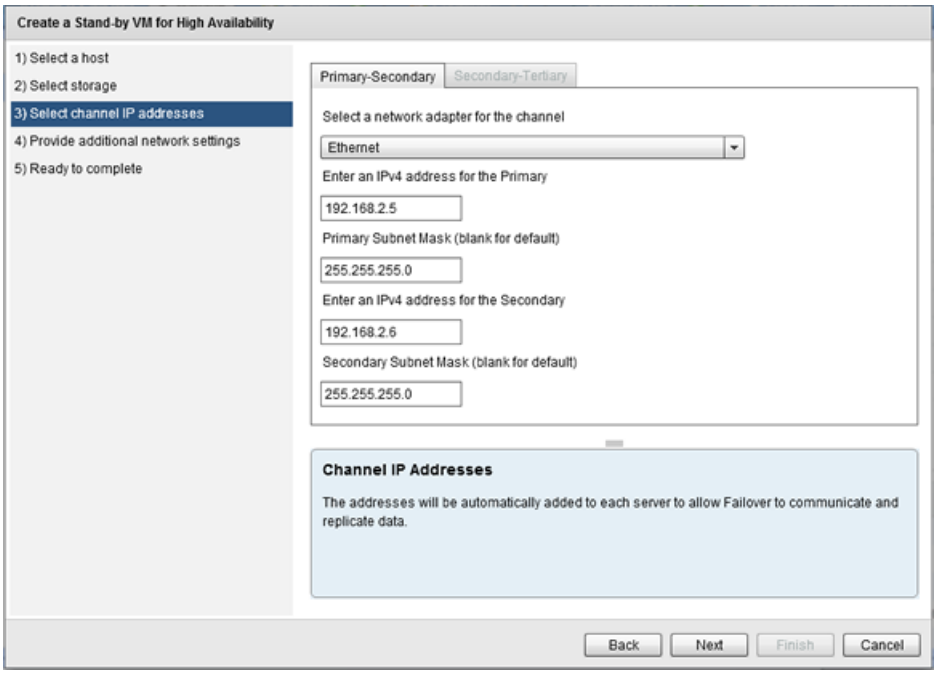
1. Click on the **Manage** drop-down and select **Deploy** > **Create a Stand-by VM for High Availability**. The *Create a Stand-by VM for High Availability* dialog is displayed.



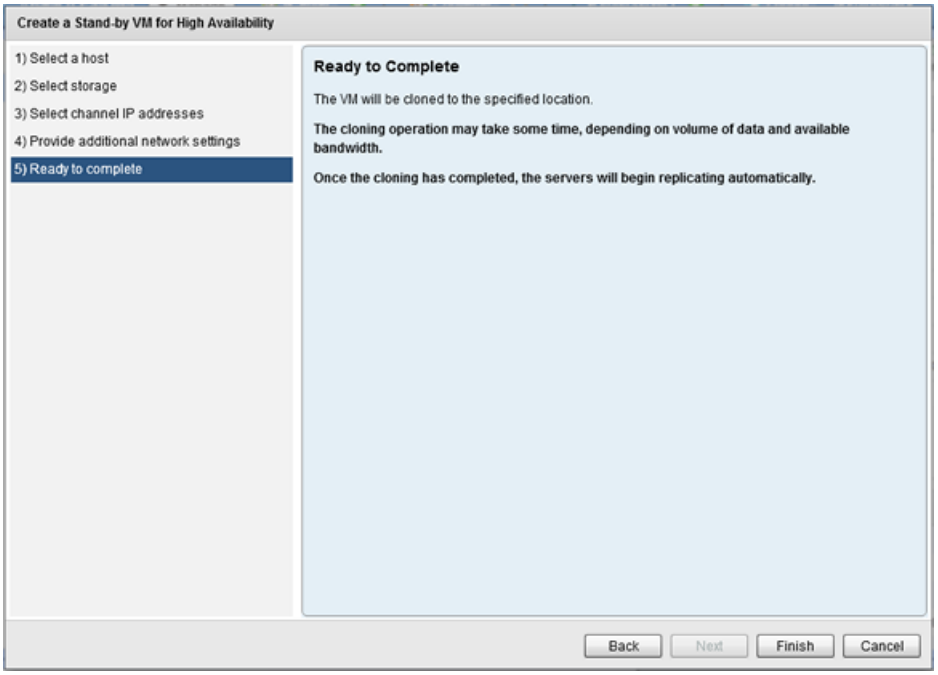
2. Select the *Datacenter* and *Host* where the Secondary server will be created and click **Next.** The *Select Storage* page is displayed.



3. Select a storage location for the virtual machine and click **Next**.The *Select Channel IP Addresses* page is displayed.

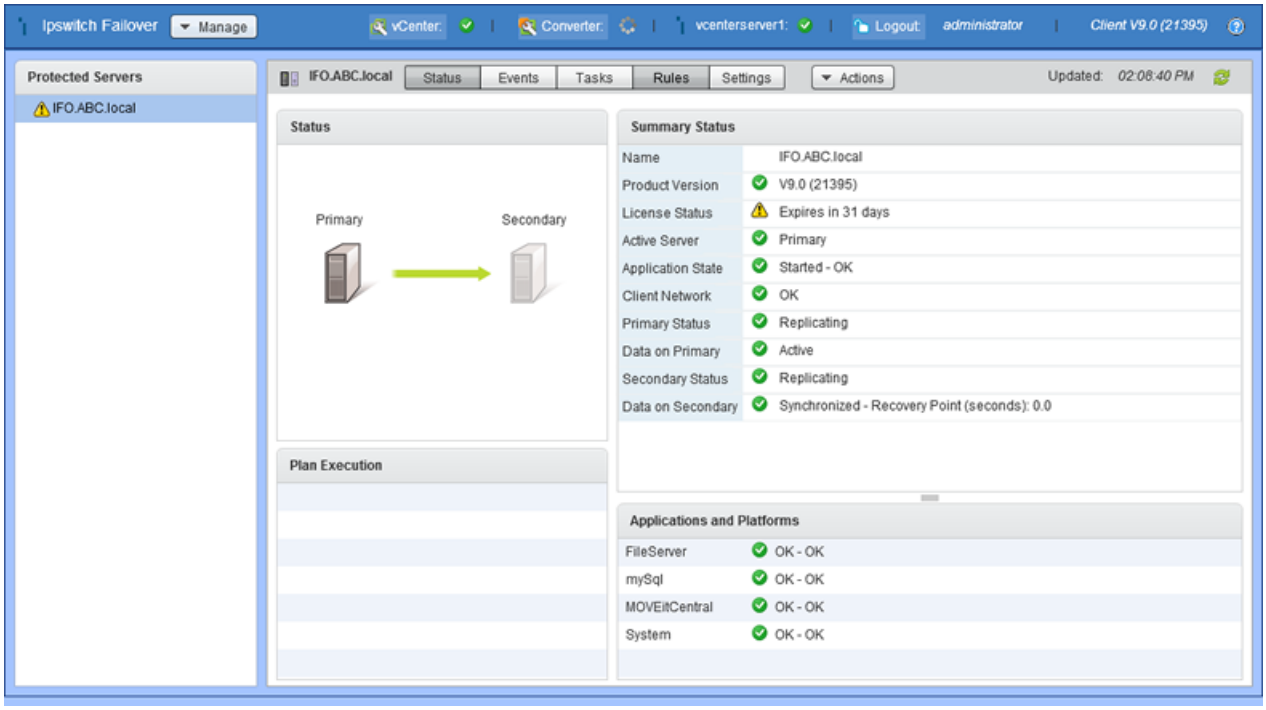


4. Enter the Channel IP addresses used to replicate data for the Primary and Secondary servers. The Channel IP addresses will be automatically added to the NICs by the Failover Management Service as a result of the installation process. Click **Next**. The *Ready to Complete* dialog is displayed.



5. Click **Finish** to initiate the cloning process for creation of a Secondary server.

   Once cloning process is complete, automatic reconfiguration of the Secondary server will take place requiring only a few minutes to finish. Once complete, perform *Post Installation Configuration* tasks as listed in the Ipswitch Failover Installation Guide.


Ipswitch Failover
Manage
vCenter:
Converter:
vcenterserver1:
Logout:
administrator
Client V9.0 (21395)
Protected Servers
IFO.ABC.local
IFO.ABC.local
Status
Events
Tasks
Rules
Settings
Actions
Updated: 02:08:40 PM
Status
Primary
Secondary
Plan Execution
Summary Status
Name IFO.ABC.local
Product Version V9.0 (21395)
License Status Expires in 31 days
Active Server Primary
Application State Started - OK
Client Network OK
Primary Status Replicating
Data on Primary Active
Secondary Status Replicating
Data on Secondary Synchronized - Recovery Point (seconds): 0.0
Applications and Platforms
FileServer OK - OK
mySql OK - OK
MOVEitCentral OK - OK
System OK - OK