

RingStor Vault Components

Cloud End Point

- manage configuration for RingStor
- must be installed first
- Master community is created after installation
- Only one Cloud End Point shall be installed

Cloud Indexer

- process backup index
- Only one Cloud Indexer shall be installed

DataServer

- one or more to process backup and restore
- At least one must be installed, more can be added if needed

RingStor Vault Components

RingStor Explorer

- A graphic user interface to manage configuration for RingStor
- can be installed by any user

Index Storage

- Storage device for backup index
- Only one Index Storage device is need

MountPath

- Storage device for backup data
- At lease one must be added, more can be added if needed

System Requirements:

Cloud End Point

- Windows operating system, server or PC
- .Net framework 3.5
- Microsoft SQL or SQL Express 2008 or newer, local or remote
- minimum 2GB memory available for Cloud End Point
- hard drive free space is at least 10% of total space with minimum 10GB
- Windows service account with Log On As Service permission

Cloud Indexer

- Windows operating system, server or PC
- . Net framework 3.5
- minimum 2GB memory available for Cloud End Point
- hard drive free space is at least 10% of total space with minimum 10GB
- Windows service account with Log On As Service permission

DataServer

- Windows operating system, server or PC
- . Net framework 3.5
- minimum 4GB memory available for Cloud End Point
- hard drive free space is at least 10% of total space with minimum 20GB
- Windows service account with Log On As Service permission

System Requirements:

RingStor Explorer

- Windows operating system, server or PC
- .Net framework 3.5
- minimum 1GB memory available

Index Storage

- An UNC path
- free space required depends on RingStor Vault clients and backups
- Service account from Cloud End Point, Cloud Indexer and DataServer must have full access

MountPath

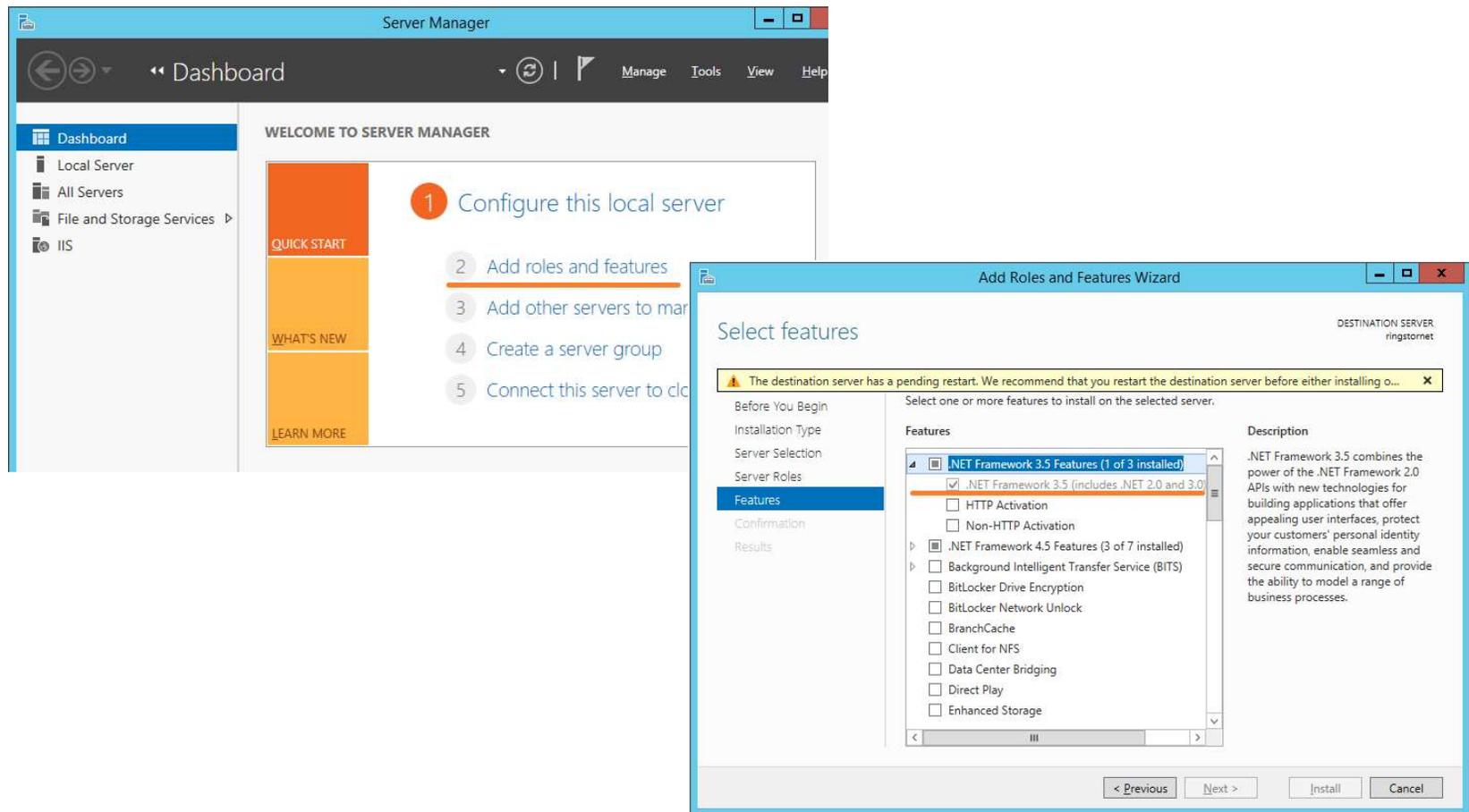
- One or more MountPath can be configured
- MountPath is an UNC path
- free space required depends on RingStor Vault clients and backups
- Service account from Cloud End Point and DataServer must have full access

Installation Steps

1. Install Cloud End Point
2. Install Cloud Indexer
3. Install DataServer to the Vault
4. Install RingStor Explorer to manage RingStor Vault
5. Complete final configuration

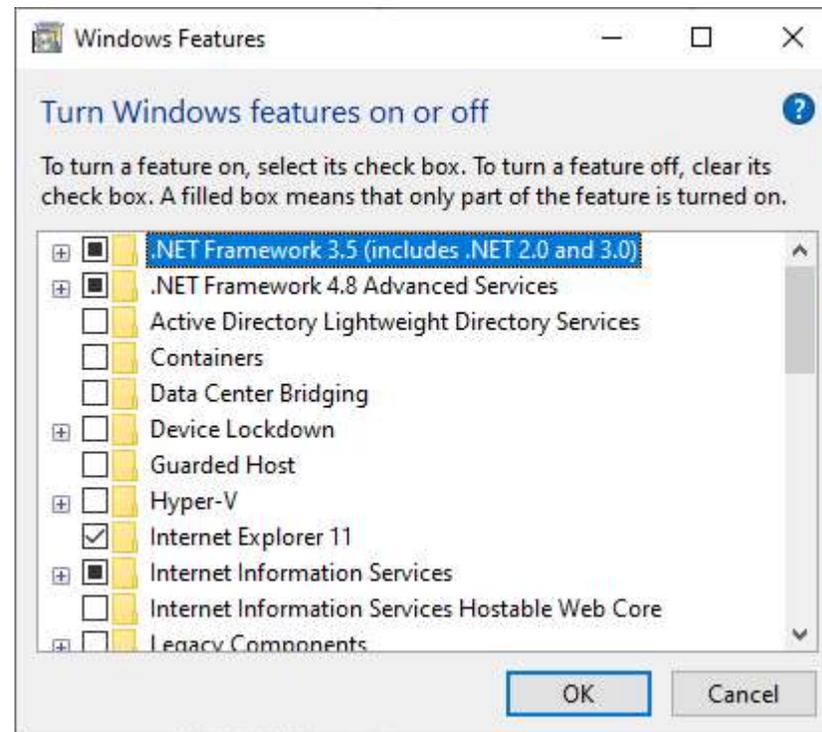
Install .Net Framework 3.5 on Windows Server

From Server Manager, click Add roles and features



Install .Net Framework 3.5 on Windows PC

Open Program and Features, start from Turn Windows features on or off:

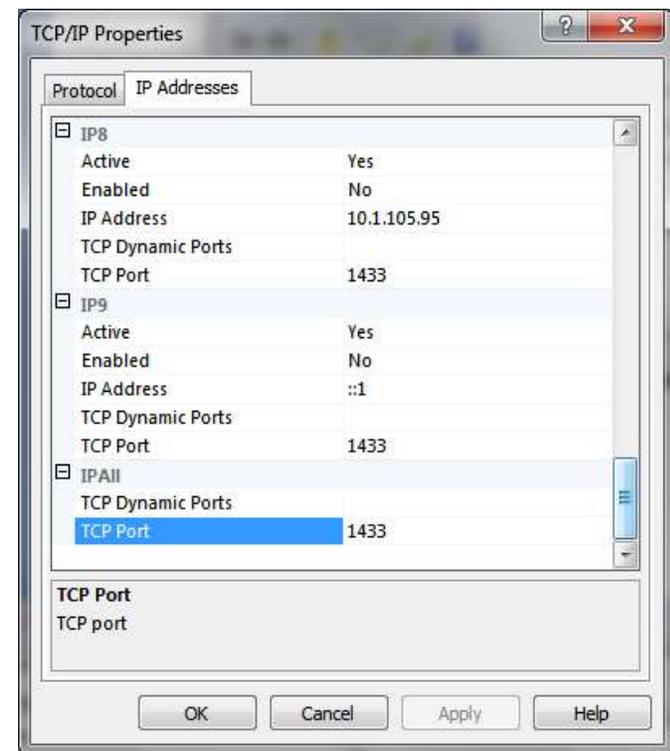
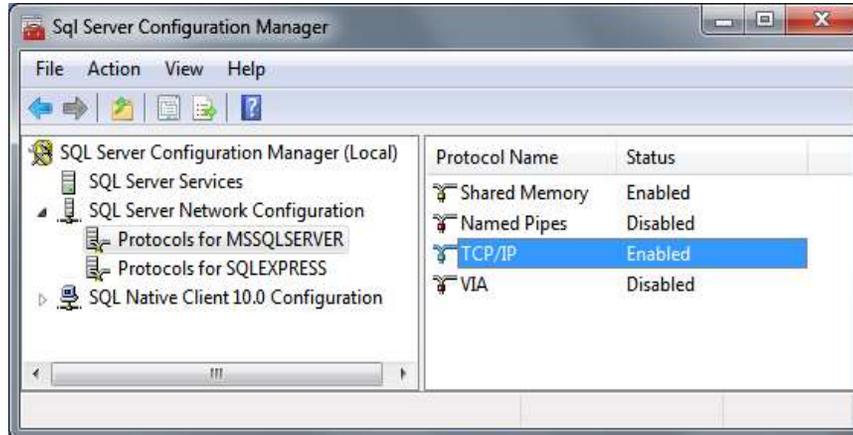


Install Microsoft SQL or SQL Express 2008 or later

SQL Server authentication must be enabled

TCP/IP protocols must be enabled

Make a note of port used in TCP/IP

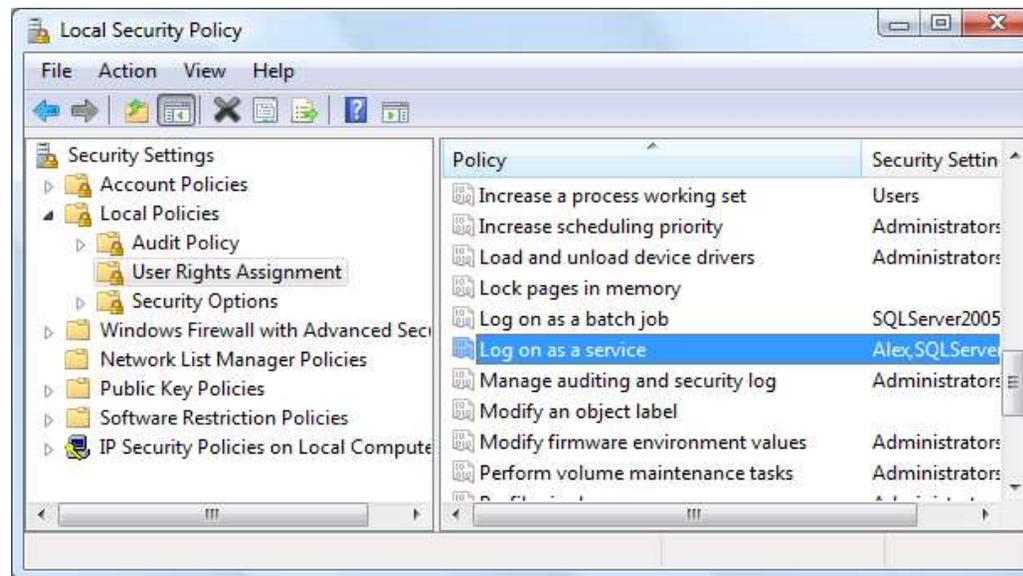


Windows service account with Log On As Service permission

Open Local Security Policies window from Administrative Tools -> Local Security Policies.

Expand Local Policies -> User Rights Assignment, find policy "Log On As Service" in right pane.

Open and verify or add chosen server account user to this policy group.



Install Cloud End Point

Step 1 - Start Installation

Step 2 - License Agreement

Step 3 – Specify Installation Root Folder

Step 4 – Menu and Shortcut

Step 5 - Cloud End Point hostname

and port

The host name will be pre-filled with current computer's hostname or IP. If an IP is provided, the computer must be configured with static IP.

The port is default to 9000, you may change the port.

If the network has a firewall, port must be added to the firewall to allow both incoming and outgoing connection



Install Cloud End Point

Step 6 – Set up Cloud Administrator

This user is administrator for Master community which will be created at end of installation.

Step 7 – Specify Database Repository

SQL Server – host name of the computer where SQL server is running

TCP Port – TCP port for the SQL service (see prerequisites)

SQL Username – SQL server user account, this account must have permission to create database

SQL Password – password for the user account above



Setup - RingStor Cloud End Point 4.5.1

Cloud End Point Configuration
Create cloud administrator account

Provide username and password for cloud administrator account

Administrator Username:

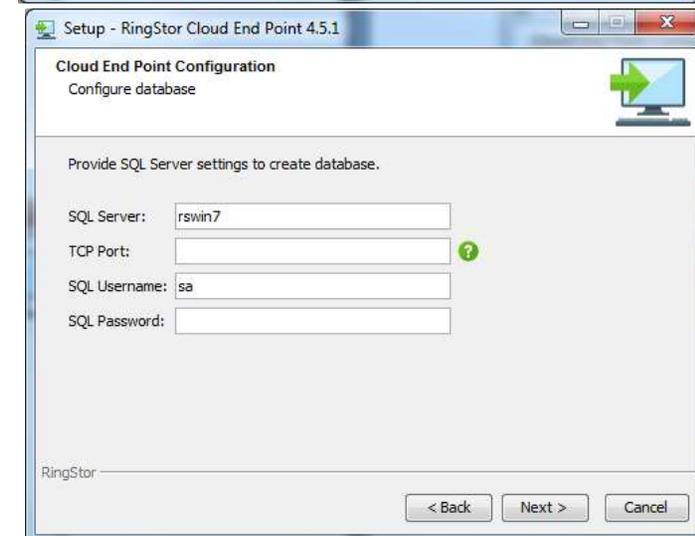
Administrator Password:

Confirm Password:

Note: This cloud administrator account is used to install other components into the cloud, manage all backup agents and schedules in the cloud, etc.

RingStor

Next > Cancel



Setup - RingStor Cloud End Point 4.5.1

Cloud End Point Configuration
Configure database

Provide SQL Server settings to create database.

SQL Server:

TCP Port:

SQL Username:

SQL Password:

RingStor

< Back Next > Cancel

Install Cloud End Point

Step 8 – Setup Cloud End Point Service

The user is Windows service account setup in prerequisites.

This service account must have full access to index storage and all MountPaths that are configured in last step of RingStor Vault installation.



Install Cloud Indexer

Step 1 - Start Installation

Step 2 - License Agreement

Step 3 – Specify Installation Root Folder

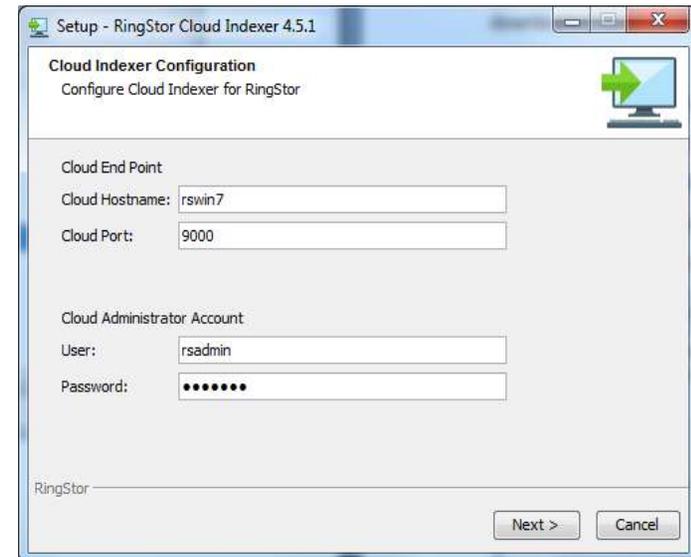
Step 4 – Menu and Shortcut

Step 5 - Provide Cloud info and administrator credentials

Cloud info and administrator are set during Cloud End Point installation.

Step 6 – Setup Cloud Indexer Service

This service account must have full access to index storage.



Install DataServer

Step 1 - Start Installation

Step 2 - License Agreement

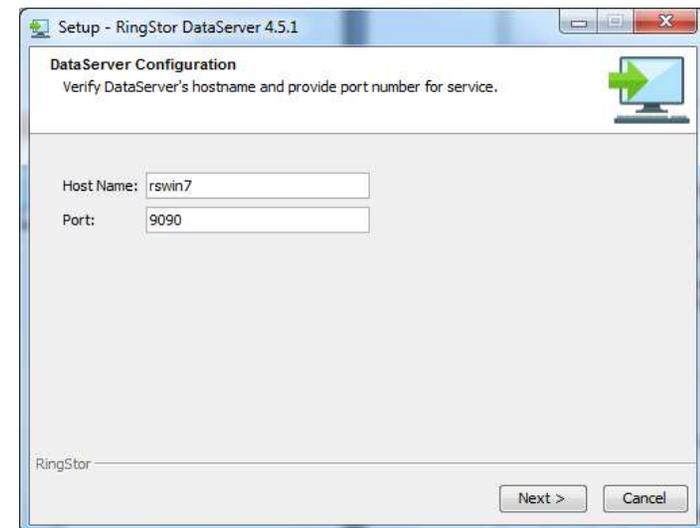
Step 3 – Specify Installation Root Folder

Step 4 – Menu and Shortcut

Step 5 - DataServer hostname and port

The host name will be pre-filled with current computer's hostname or IP. If an IP is provided, the computer must be configured with static IP.

The port is default to 9090, you may change the port



Install DataServer

Step 6 - Provide Cloud End Point info

DataServer must connect to the existing Cloud End Point and register itself to become part of RingStor Vault, make sure Cloud End Point is online and provide Cloud End Point settings in this step.

Step 7 - Provide Cloud End Point info

This service account must have full access to index storage and all MountPaths that are configured in last step of RingStor Vault installation.



Install RingStor Explorer

RingStor Explorer is a graphic user interface to manage RingStor

RingStor Explorer can be used by any RingStor user

RingStor Explorer can be installed on any Windows operating system

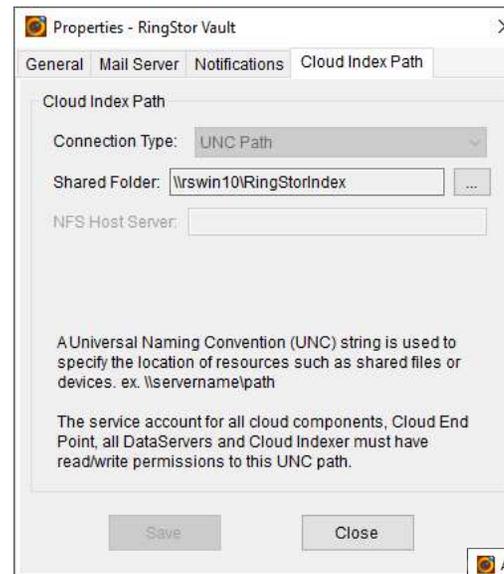
Final Configuration

Configure Cloud Index Path

Log into RingStor Explorer as Cloud administrator

From top menu, open System -> Settings -> Cloud Index Path

Set an UNC path as Cloud Index Path



Add MountPath

Log into RingStor Explorer as Cloud administrator

From top menu, open Storage -> Add New MountPath

Set an UNC path as MountPath

Select Master Community and Primary MountPath Pool for this MountPath

