

LAB: DATA DEDUPLICATION

Server Manager

anager ▸ Dashboard

WELCOME TO SERVER MANAGER

QUICK START

WHAT'S NEW

- 1 Configure this local server
- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group

Select installation type

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running machine, or on an offline virtual hard disk (VHD).

- ☒ **Role-based or feature-based installation**
Configure a single server by adding roles, role services, and features.
- ☐ **Remote Desktop Services installation**
Install required role services for Virtual Desktop Infrastructure (VDI) or session-based desktop deployment.

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server from the server pool

Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
BUR-SRV2.Datahouse.io...	192.168.1.3	Microsoft Windows Server 2012 R2 Datacenter

Select server roles

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select one or more roles to install on the selected server.

Roles

- ☐ DNS Server
- ☐ Fax Server
- ☒ File and Storage Services (3 of 12 installed)
 - ☒ File and iSCSI Services (2 of 11 installed)
 - ☒ File Server (Installed)
 - ☐ BranchCache for Network Files
 - ☒ Data Deduplication
 - ☐ DFS Namespaces
 - ☐ DFS Replication
 - ☐ File Server Resource Manager
 - ☐ File Server VSS Agent Service
 - ☒ iSCSI Target Server (Installed)
 - ☐ iSCSI Target Storage Provider (VDS and VSS)
 - ☐ Server for NFS

Select features

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select one or more features to install on the selected server.

Features

- ☐ .NET Framework 3.5 Features
- ☒ .NET Framework 4.5 Features (2 of 7 installed)
- ☐ Background Intelligent Transfer Service (BITS)
- ☐ BitLocker Drive Encryption
- ☐ BitLocker Network Unlock
- ☐ BranchCache
- ☐ Client for NFS
- ☐ Data Center Bridging
- ☐ Direct Play
- ☐ Enhanced Storage
- ☐ Failover Clustering
- ☐ Group Policy Management
- ☐ IIS Hostable Web Core
- ☐ Ink and Handwriting Services

Descri

.NET F
power F
APIs v
buildin
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secure
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busine

< Previous

Next >

Confirm installation selections

DESTIN
BUR-SRV21

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

To install the following roles, role services, or features on selected server, click Install.

☐ Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Pre to uncheck their check boxes.

File and Storage Services
File and iSCSI Services
Data Deduplication

Export configuration settings
Specify an alternate source path

< Previous

Next >

Install

Installation progress

DESTINATION SERVER
BUR-SRV21.Datahouse.local

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

View installation progress

1 Feature installation

Installation succeeded on BUR-SRV21.Datahouse.local.

File and Storage Services
File and iSCSI Services
Data Deduplication

You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

Export configuration settings

< Previous

Next >

Close

Cancel



Server Manager ▸ Dashboard

Dashboard

Local Server

All Servers

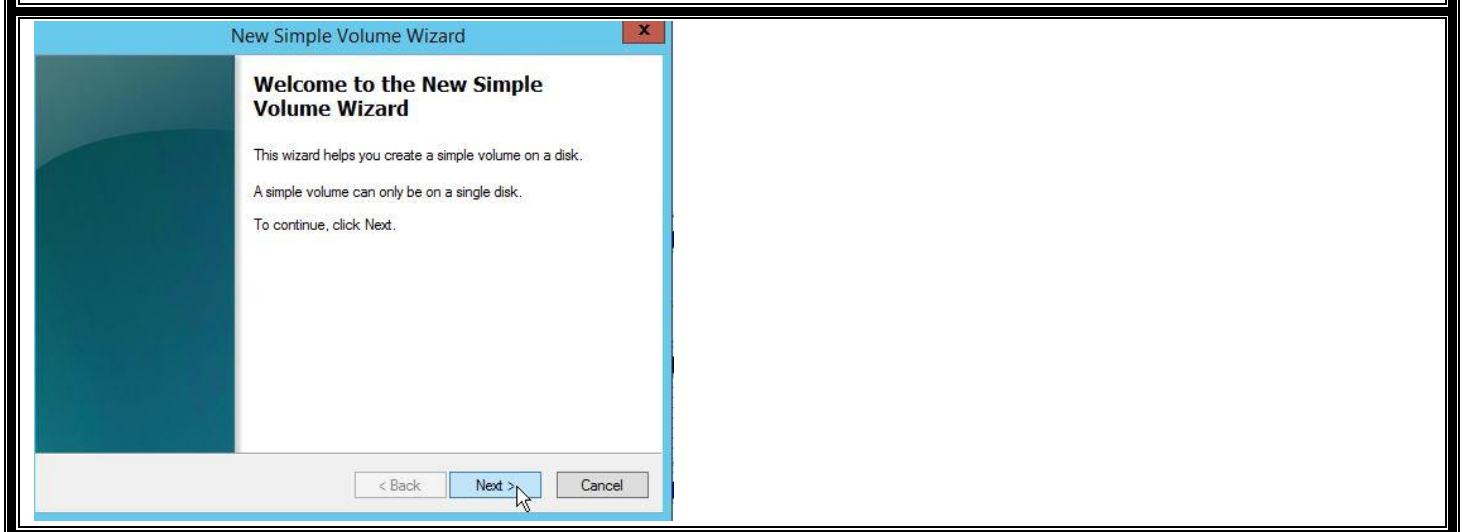
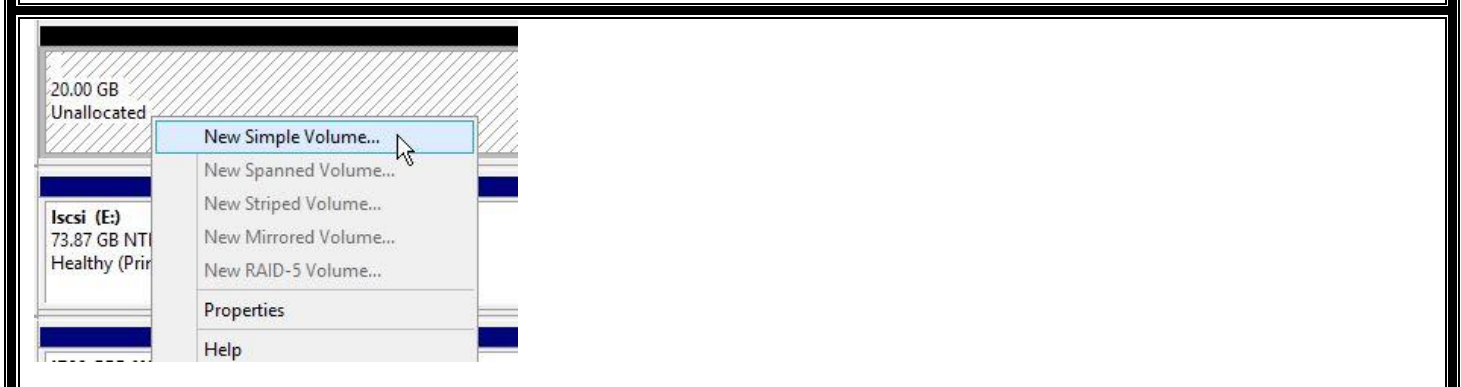
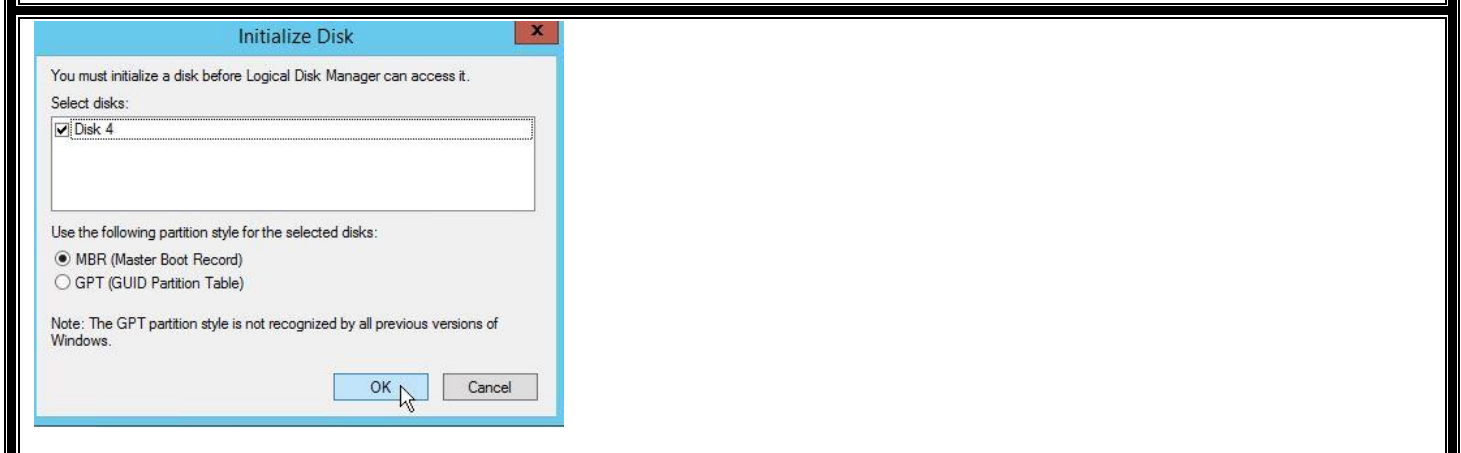
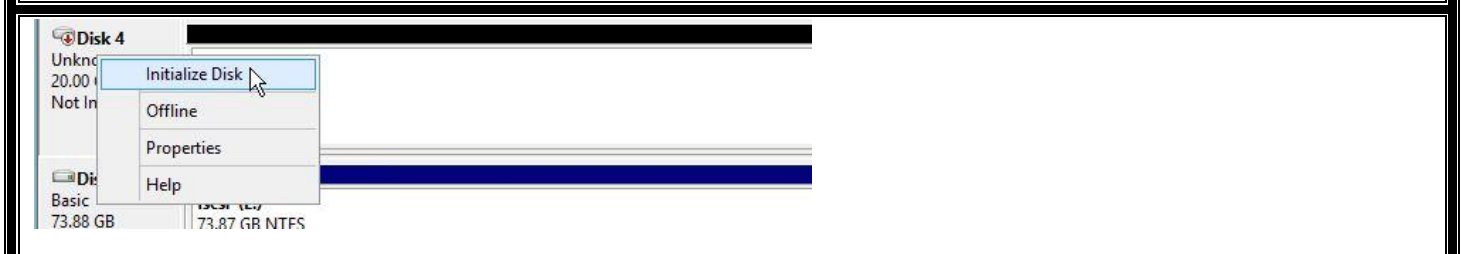
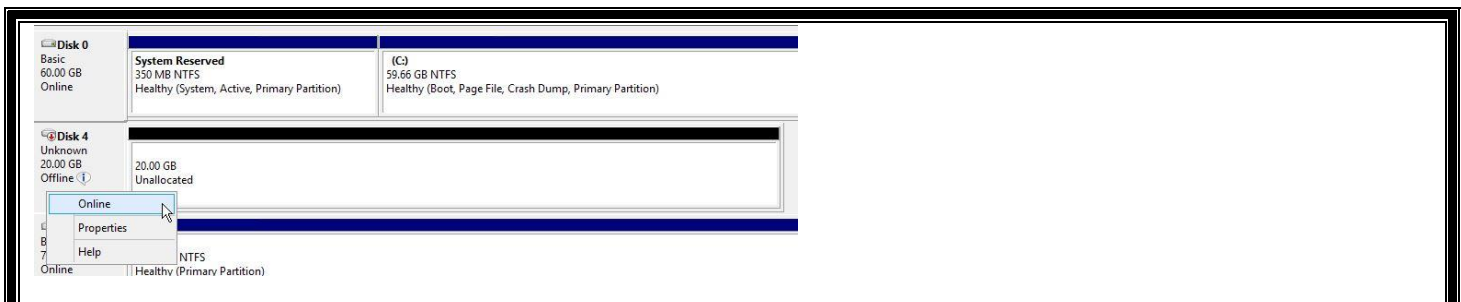
File and Storage Services ▸

WELCOME TO SERVER MANAGER



1 Con

2 A



New Simple Volume Wizard

Specify Volume Size
Choose a volume size that is between the maximum and minimum sizes.

Maximum disk space in MB: 20477

Minimum disk space in MB: 8

Simple volume size in MB:

< Back Next > Cancel

New Simple Volume Wizard

Assign Drive Letter or Path
For easier access, you can assign a drive letter or drive path to your partition.

☒ Assign the following drive letter:

☐ Mount in the following empty NTFS folder:
 Browse...

☐ Do not assign a drive letter or drive path

< Back Next > Cancel

New Simple Volume Wizard

Format Partition
To store data on this partition, you must format it first.

Choose whether you want to format this volume, and if so, what settings you want to use.

☐ Do not format this volume

☒ Format this volume with the following settings:

File system:

Allocation unit size:

Volume label:

☒ Perform a quick format

☐ Enable file and folder compression

< Back Next > Cancel

New Simple Volume Wizard

Completing the New Simple Volume Wizard

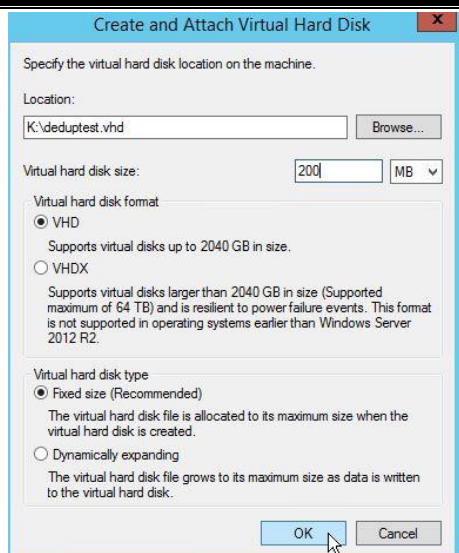
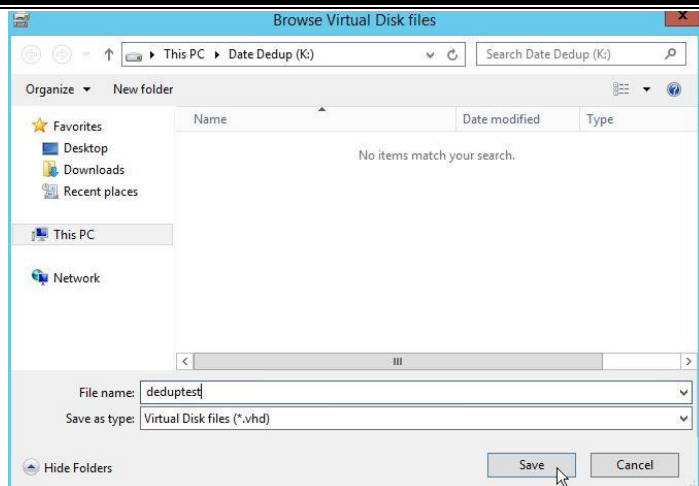
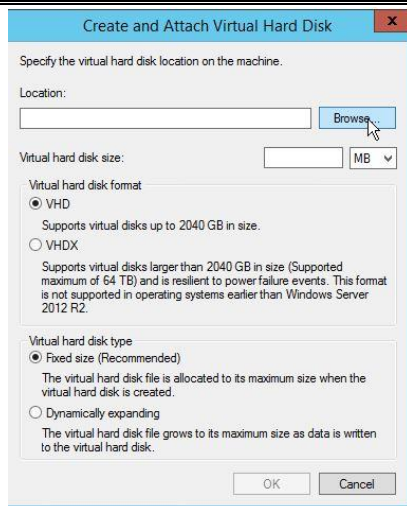
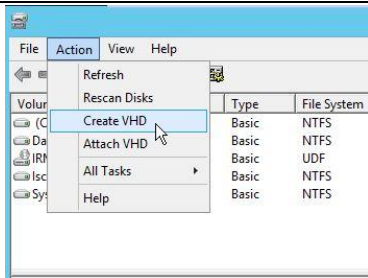
You have successfully completed the New Simple Volume Wizard.

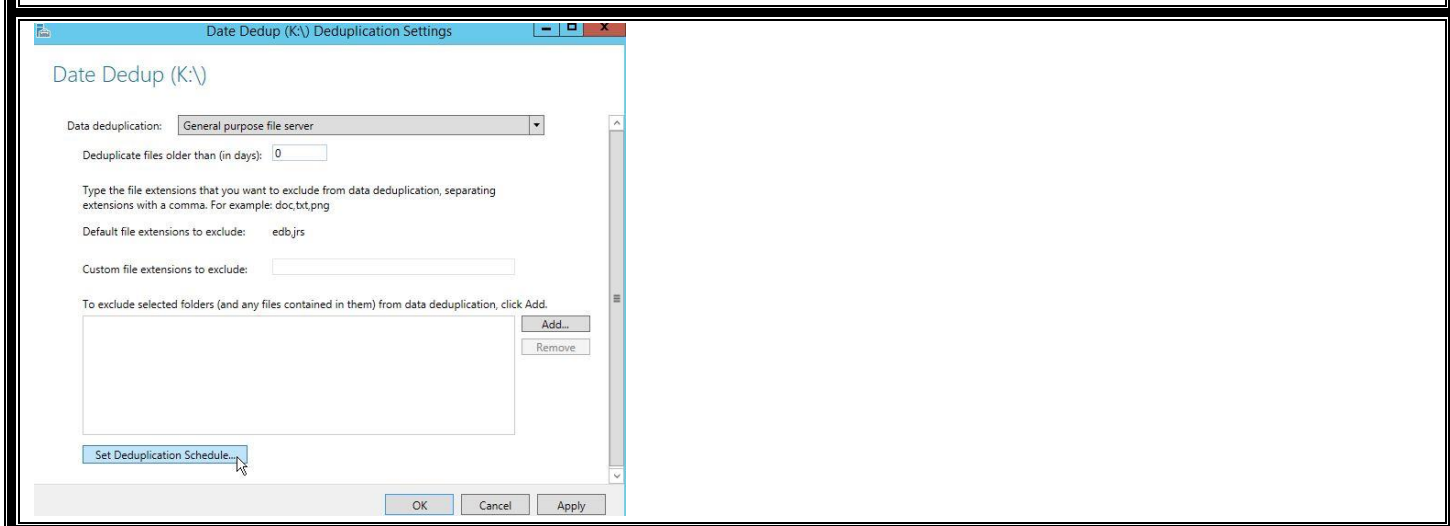
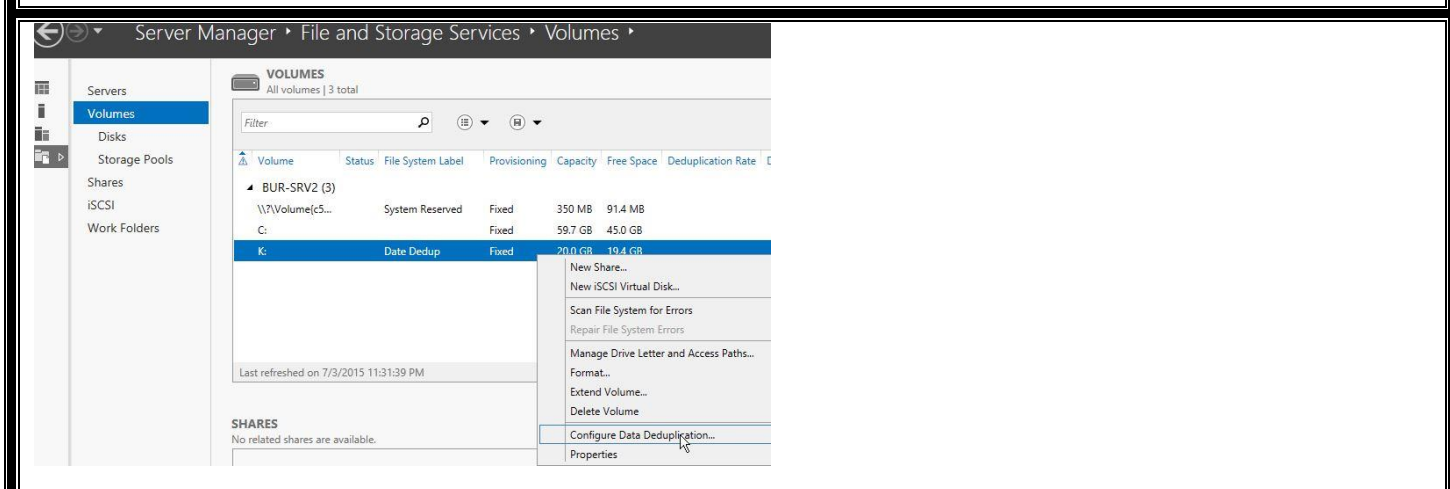
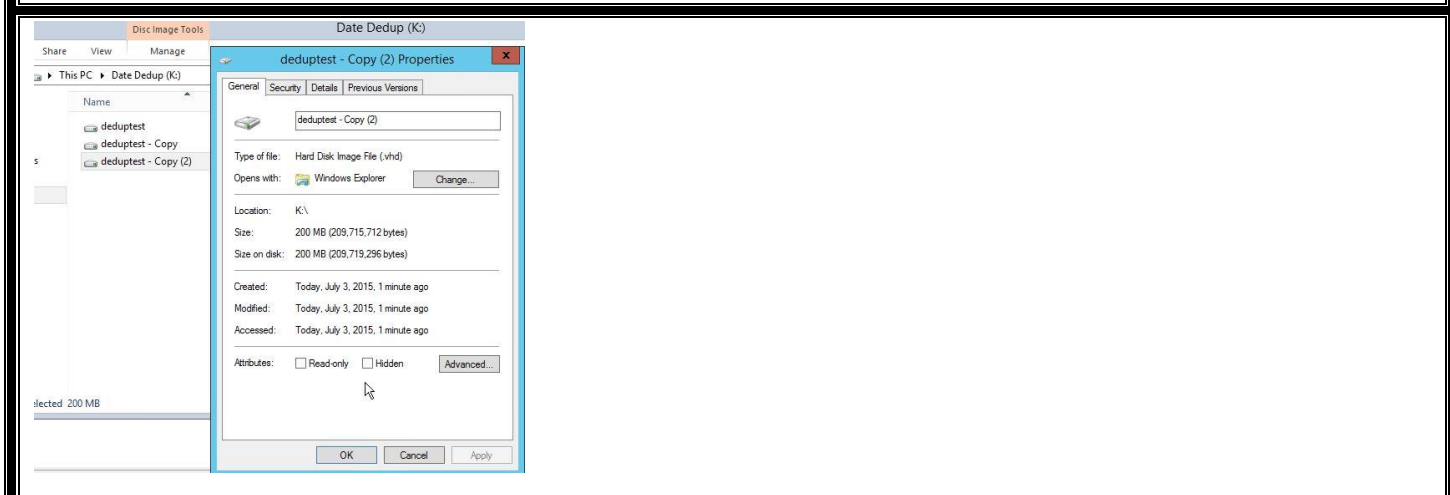
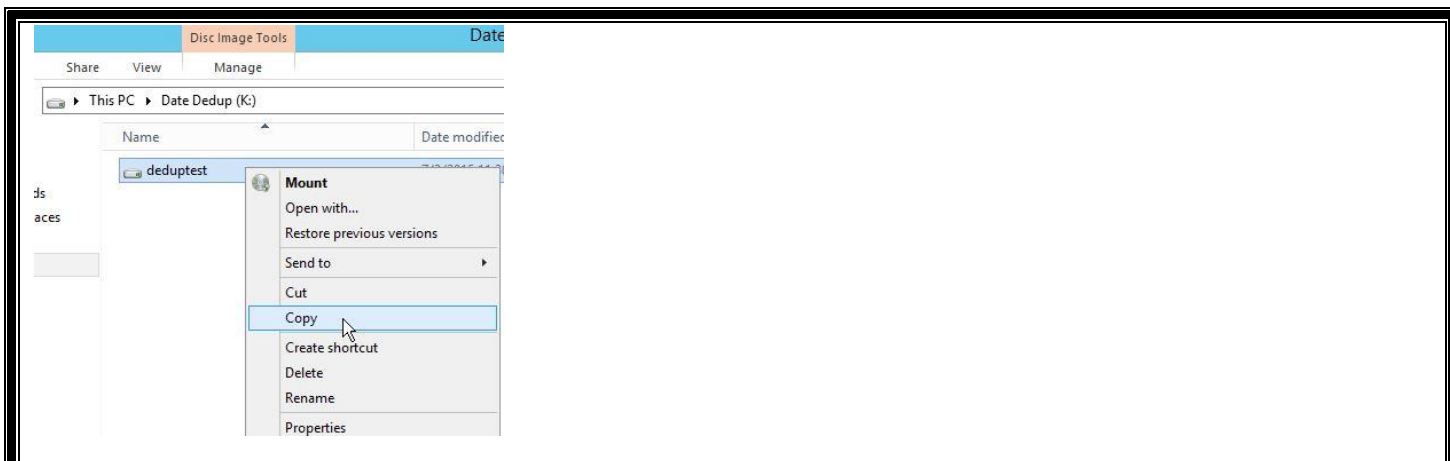
You selected the following settings:

Volume type: Simple Volume
Disk selected: Disk 4
Volume size: 20477 MB
Drive letter or path: K:
File system: NTFS
Allocation unit size: Default
Volume label: Date Dedup
Quick format: Yes

To close this wizard, click Finish.

< Back Finish > Cancel





BUR-SRV2 Deduplication Schedule

BUR-SRV2.Datahouse.local

☒ Enable background optimization

Regularly run data deduplication at low priority and pause data deduplication when the system is busy to minimize the impact on system performance.

☒ Enable throughput optimization

During the specified hours, run data deduplication at normal priority and consume the resources required to maximize performance.

Days of the week: ☒ Sunday ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday

Start time: 1:45 AM

Duration (in hours): 6

☒ Create a second schedule for throughput optimization

During the specified hours, run data deduplication at normal priority and consume the resources required to maximize performance.

Days of the week: ☒ Sunday ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday

Start time: 2:00 PM

Duration (in hours): 8

OK

Cancel

Apply

Date Dedup (K:\) Deduplication Settings

Date Dedup (K:\)

Data deduplication: General purpose file server

Deduplicate files older than (in days): 0

Type the file extensions that you want to exclude from data deduplication, separating extensions with a comma. For example: doc.txt,png

Default file extensions to exclude: edb.js

Custom file extensions to exclude:

To exclude selected folders (and any files contained in them) from data deduplication, click Add.

Add...

Remove

Set Deduplication Schedule...

OK

Cancel

Apply

Select Administrator, Windows PowerShell

Windows PowerShell
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PS C:\Users\Administrator.DATAHOUSE> Start-DedupJob -Type Optimization -volume k:

Type	ScheduleType	StartTime	Progress	State	Volume
Optimization	Manual		0 %	Queued	k:

PS C:\Users\Administrator.DATAHOUSE> Get-DedupJob

PS C:\Users\Administrator.DATAHOUSE> Get-DedupVolume

Enabled	UsageType	SavedSpace	SavingsRate	Volume
True	Default	400 MB	50 %	K:

