Data Deduplication Lab

Data deduplication

- identifies and removes duplications within data without compromising the integrity of the data.
- You can schedule when Data deduplication should run, specify the resources to deduplicate

Data Duplication Lab steps

- Add the Data Dupication Role
- Enable Data Deduplication
- Test Data deduplication

Adding the Data Deduplication role



Click on file and storage services



	nager 🕨 File a	and S	storage	e Serv	vices • \
Servers	All volumes 5 t	otal			
Volumes	Filter		Q	(iii) •	• • •
Disks	1 4007		~		
Storage Pools	A Volume	Status	File System	Label	Provisioning
Shares	 Server2012r2 (5)			
iSCSI	\\?30		Recovery		Fixed
Work Folders	C:		Acer		Fixed
	F:		Extravolum	e	Fixed
	E:		2012r2		Fixed
	\\?78		Push Butto	n Reset	Fixed
	Last refreshed on 6/19	9/2016 9	:47:50 AM		
	SHARES				
	No volume is selected.				
		Sele	ect a volume	to display	the related sha
		UCIU		2 and prody	

Right click your drive and click Configure data Deduplication



Disabled by default

🚡 Extra	olume (F:\) Deduplic	ation Settings		-		x
Extravolume (F:\)						
Data deduplication: Disabled				•		^
Deduplicate files older than (in o	ays): 3					
Type the file extensions that you extensions with a comma. For ex Default file extensions to exclud	want to exclude from data ample: doc,txt,png : edb,jrs	deduplication, separati	ng			
Custom file extensions to exclud	51					
To exclude selected folders (and	any files contained in then	n) from data deduplicati	on, click Ad	dd.		≡
				Add. Remo	ve	
	_					
Set Deduplication Schedule						~
		ОК	Cancel	A	pply	

Extravolume (F:\)

Data deduplication:	Disabled	▼	2
Dedunlicate files old	Disabled		
Deduplicate files of	General purpose	file server	
Type the file extensi	Virtual Desktop Ir	frastructure (VDI) server	
extensions with a co	omma. For example	: doc,txt,png	
Default file extensio	ns to exclude:	edb.jrs	
Custom file esternic	and the second se		
Custom file extensio	ons to exclude:		
To exclude selected	folders (and any fi	les contained in them) from data deduplication, click Add.	Ξ
		Add	
		Remove	
Sat Daduplication	Schodula		
Set Deduplication	i Schedule		
		OK Cancel Apply	

Extravolume (F:\)

Data deduplication:	General purpose file server	^
Deduplicate files of	older than (in days): 3 4	
Type the file extens extensions with a c	sions that you want to exclude from data deduplication, separating comma. For example: doc,txt,png	
Default file extension	ions to exclude: edb.jrs	
Custom file extensi	ions to exclude:	
To exclude selected	d folders (and any files contained in them) from data deduplication, click Add.	≡
	Add Remove	
Set Deduplicatio	on Schedule	~
	OK Cancel Apply	

Server2012r2.Servermain.com

Enable background optimization

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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 I resources required to	hours, run data de maximize perforr	duplication at no mance.	ormal priority and	consume the
Days of the week:	 Sunday Thursday 	✓ Monday ✓ Friday	 ✓ Tuesday ✓ Saturday 	✓ Wednesday
Start time:	1:45 AM 🔻			
Duration (in hours):	6			

✓ Create a second schedule for throughput optimization

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Days of the week:	 Sunday Thursday 	✓ Monday ✓ Friday	✓ Tuesday ✓ Saturday	✓ Wednesday
Start time:	9:00 AM 🔻			
Duration (in hours):	8			

Test Data Deduplication

On your server, copy **a file** file from the root folder of the f: drive to the **folder of the f: drive**.

In Windows PowerShell, on the server, type the following cmdlet to start the deduplication job in optimization mode:

Start-DedupJob –Type Optimization –Volume F:

When the job completes, verify the size of thefile on the root folder in drive f:.

In the **Properties** dialog box of the file, note the values for **Size** and **Size on Disk**. The size on the disk should be much smaller than it was previously.