Configure Failover Fileserver settings

Server 2012



Expand the cluster.

Right click on roles and select Configure Role from the drop down menu

-	High Availability Wizard	8
Before Yo	ou Begin	
Before You Begin Select Role	This wizard configures high availability for a role. After you successfully complete this wizard, if a clustered server fails while running the role, another clustered server automatically begins running the role (a process known as failover). If the role itself fails, it can be automatically restarted, either on the same server or on another server in the cluster, depending on options that you specify. If you want to cluster a complex application such as a mail server or database application, see that application's documentation for information about the correct way to install it. More about roles that you can configure for high availability Do not show this page again	
	Next > Cancel	

Click on Next on the Before you Begin Screen

-	High Availability Wizard			8
Select Ro	ble			
Before You Begin Select Role	Select the role that you want to configure for high availab	lity:		
File Server Type Client Access Point Select Storage Confimation Configure High Availability Summary	DFS Namespace Server DHCP Server Distributed Transaction Coordinator (DTC) File Server Generic Application Generic Script Generic Service Hyper-V Replica Broker SCSI Target Server	^	Description: A File Server provides a central location on your network where files are shared for use by users or by applications. For more information, see <u>File Server Options for Failover Clusters</u> . vious Next >	

Select the File Server Role then click Next

3 2	High Availability Wizard
File Serve	ег Туре
Before You Begin Select Role File Server Type	 Select an option for a clustered file server: File Server for general use Use this option to provide a central location on your network for users to share files or for server
Client Access Point Select Storage Confirmation	applications that open and close files frequently. This option supports both the Server Message Block (SMB) and Network File System (NFS) protocols. It also supports Data Deduplication, File Server Resource Manager, DFS Replication, and other File Services role services.
Configure High Availability Summary	Scale-Out File Server for application data Use this option to provide storage for server applications or virtual machines that leave files open for extended periods of time. Scale-Out File Server client connections are distributed across nodes in the cluster for better throughput. This option supports the SMB protocol. It does not support the NFS protocol, Data Deduplication, DFS Replication, or File Server Resource Manager.
	< Previous Next > Cancel

Select the first option "file server for general use" know the difference between the two options for your 70412 Exam

Failover Clustering in Windows Server 2012 includes two options for file servers:

Clustered file server for general use: This option existed in failover clusters before Windows Server 2012. You can use it to increase the availability of files that are shared for use by users or by applications that open and close files frequently.

File server for scale-out application data: This option is also called a Scale-Out File Server, and it is new in Windows Server 2012. You can use it to increase the availability of storage for applications or virtual machines that leave files open for extended periods of time.

The following table compares a clustered file server for general use with a Scale-Out File Server.

Clustered file server for general use

Helps increase the availability of files that are shared for use by users or by applications that open and close files frequently.

Runs on one node of the cluster at a time.

Cannot use Clustered Shared Volumes.

Uses an active-passive model, where one node runs the file server at a time. Other nodes can run the file server if needed. Scale-Out File Server

Helps increase the availability of storage for applications or virtual machines that leave files open for extended periods of time.

Runs on multiple cluster nodes at a time. Server Message Block (SMB) client connections are distributed across nodes for better throughput. This is accomplished through the Failover Clustering feature in Windows Server 2012 called Distributed Network Name. This feature allows multiple cluster nodes with multiple IP addresses to respond to the same network name by using DNS round robin.

Must use Clustered Shared Volumes.

Uses an active-active model, where multiple nodes run the file server in a coordinated way.

The following table compares the File Services technologies that are supported in a clustered file server for general use with those that are supported in a Scale-Out File Server.

Technology	Clustered file server for general use	Scale-Out File Server
SMB	Supported	Supported
Network File System (NFS)	Supported	Not supported
BranchCache	Supported	Not supported
Data deduplication	Supported	Not supported
DFS Namespaces – namespace server	Supported	Not supported
DFS Namespaces – folder target	Supported	Supported
DFS Replication	Supported	Not supported
File Server Resource Manager quotas, screening, and reporting	Supported	Not supported
File Classification Infrastructure	Supported	Not supported
File Server Volume Shadow Copy Service (VSS) agent	Supported	Supported
Folder Redirection	Supported	Supported
Offline Files	Supported	Supported

3 0		High Availability Wizard	I	83
Client Act	cess Point			
Before You Begin Select Role File Server Type Client Access Point Select Storage	Type the name that of Name: The NetBIOS name automatically. Al	clients will use when accessing this of FileServer ne is limited to 15 characters. One Il networks were configured automa	clustered role: or more IPv6 addresses were configured atically.	
Confirmation Configure High Availability Summary		Networks Image: Networks Image:	Address 192.168.254.132	

Enter the name the clients will use when accessing this clustered role. Enter the Ip Address

8a	High Availability Wizard	×
Select S	Storage	
Before You Begin Select Role File Server Type Client Access Point Select Storage Confirmation Configure High Availability Summary	Select only the storage volumes that you want to assign to this clustered role. You can assign additional storage to this clustered role after you complete this wizard. Name Status Image: Boost in the storage to the	
	< Previous Next > Canc	cel

Clicking Next displays the Confirmation screen. At this point you can either confirm your selections or go back through the High Availability Wizard dialog boxes and make changes.

If everything is OK, clicking Next on the Confirmation screen displays the Configure High Availability dialog box, which shows the progress of the CAFS configuration process. When it's complete, a Summary screen is displayed. Clicking Finish on the Summary screen closes the High Availability Wizard and returns you to the Failover Cluster Manager.

Configure properties of specific roles

Search						ρ	Queries 🔻 🖡	
Name		Status		Туре	Owr	ner Node	Priority	Inform
	Fileserver		G S	itart Role Stop Role		hk	Medium	
			B R	Replication Settings				
			1	Nove	•			
			و ا	Change Startup Priority	÷			
			in State	nformation Details Show Critical Events				
			- 1 1 1 1 1 1 1 1 1 1	Add Storage Add Resource	•			
			N	More Actions	×			
			× R	Remove				
<			E P	Properties				

Right click on Fileserver and click on Properties

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cluser1 Properties		×
General Failover		
cluser1		
Name:		_
Fileserver		
Select the <u>preferred owners</u> for this clustered role. Use to list them in order from most preferred at the top to lead at the bottom.	the buttons ast preferred	
etechk	Up	
	Down	
Priority: Medium V High		
Status: F		
Node: e No Auto Start		
OK Cancel	Apply	

Click on the General type to select preferrred owner. Select the Priority

cluser1 Pro	operties	×
General Failover		
Failover		_
Specify the number of times the Cluster fail over the clustered role in the speci	er service will attempt to restart or ified period.	
If the clustered role fails more than the it will be left in the failed state.	e maximum in the specified period,	
Maximum failures in the specified period:	Þ	
Period (hours):	6	
Failback Specify whether the clustered role will most preferred owner (which is set on	automatically fail back to the the General tab).	-
Prevent failback		
 Allow failback 		
 Immediately 		
Failback between:	0 🜲 and	
	0 🔶 hours	
More about failover and failback		
ОК	Cancel Apply	

Select the Failover tab to configure the setting above