

Inventory - PSExec

Inventories via PSExec – Analysis and Bug Fixes



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1. Introduction

PSExec is used for the following scans:

- Exchange
- SharePoint
- GPO
- Windows Fallback scan

By default, PSExec is located in one of the following directories:

- Docusnap Server and Client
 - o %ProgramFiles%\Docusnap 11\bin\psexec.exe
- Optional: Discovery Service
 - %ProgramData%\Docusnap\Discovery\discovery\plugins\AUFZÄHLENDER-ORDNER\Bin\psexec.exe
 - o %ProgramFiles%\Docusnap Discovery\bin\psexec.exe

If Docusnap was installed in a different directory, this path may be different.

PSExec establishes a connection to the inventory system and copies the inventory file to the system. After the scan, the result file is copied back to the Docusnap server and imported there. Therefore, it is necessary to be able to establish a PSExec connection to the inventory system. This HowTo describes the analysis of a failing PSExec connection, as well as troubleshooting.

- In chapter 2 the error message *File could not be found* is discussed
- Chapter 3 describes a solution approach for the message Mount of remote share failed



2. File could not be found

If no PSExec connection is possible, in most cases the error message **File could not be found** is displayed. This error can have different reasons

Inven	tory Status					□ >	×
 ▲ Stat 	us]
	▲ Name	Туре	Discovery Service	Status	Information	St	ta
⊿ Com	pleted	·					
¢6	docusnapsports.com	Exchange	Client-VPC-MZA	Completed	✓ successful	27	7
¢6	DOSPEX01.DOCUSNAPSPOR	ExchangeSRV	Client-VPC-MZA	Completed	⊗File could not be found. \\DOS	27	7
•						Þ]
					Cancel Minin	nize	

Figure 1 - File could not be found



2.1 Connection test

If this error is displayed, a manual PSExec connection test to the target system should be performed first.

It is important that the test is performed with the same user that is used for the scan.

To do this, first run CMD or PowerShell in the appropriate user context.

PSExec is located in the installation directory of Docusnap in the Bin folder - e.g. C:\Program Files\Docusnap 11\Bin.

File Home Share View Image: Control of the state sta	📙 🛃 📑 🖛 Bin						-	- 🗆 ×
← → ~ ↑ → This PC → Local Disk (C:) → Program Files → Docusnap 11 → Bin ✓ Č Search Bin ✓ ✓ Quick access ^ Date modified Type Size Image: Construction of the	File Home Sha	are View						~ 🕐
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Image: Control of the control of th	- Ouiskasses	Name	Date modified	Туре	Size			
Image: OneDrive Image: ObcusnapGPO.exe 04.07.2021 20:30 Application 268 KB Image: DocusnapGPO13.exe 04.07.2021 20:30 Application 269 KB Image: DocusnapGPO1.exe 04.07.2021 20:30 Application 908 KB Image: DocusnapSPO7.exe 04.07.2021 20:30 Application 931 KB Image: DocusnapSP10.exe 04.07.2021 20:30 Application 970 KB Image: DocusnapSP13.exe 04.07.2021 20:30 Application 970 KB Image: DocusnapSPVersionCheck.exe 04.07.2021 20:31 Application 970 KB Image: DocusnapSPVersionCheck.exe 04.07.2021 20:31 Application 257 KB Image: DocusnapSInfo.exe 04.07.2021 20:31 Application 482 KB Image: DocusnapSInfo.exe 04.07.2021 20:12 Application 482 KB Image: DocusnapSInfo.exe 04.07.2021 20:11 File 126 KB Image: DocusnapSInfo.exe 04.07.2021 20:01 File 2 KB Image: DocusnapSInfo.exe 04.07.2021 20:01 File 2 KB Image: DocusnapSInfo.exe 04.07.2021 20:01 File 2 KB Image: DocusnapSInfo.exe 04.07.	M QUICK access	dnscmd.exe	28.02.2020 16:59	Application	143 KB			
Image: This PC	len OneDrive	🐣 DocusnapGPO.exe	04.07.2021 20:30	Application	268 KB			
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Image: Spring	💣 Network	🚳 DocusnapSP10.exe	04.07.2021 20:30	Application	931 KB			
Image: DocusnapSPVersionCheck.exe 04.07.2021 20:31 Application 860 KB Image: DocusnapTsInfo.exe 04.07.2021 20:31 Application 257 KB Image: DocusnapTsInfo.exe 04.07.2021 20:12 Application 482 KB Image: DocusnapTsInfo.exe 02.06.2021 11:46 File 126 KB Image: DocusnapTsInfo.exe 04.07.2021 20:01 File 2 KB Image: DocusnapTsInfo.exe 04.07.2021 20:01 File 2 KB Image: DocusnapTsInfo.exe 04.07.2021 20:01 File 2 KB Image: DocusnapTsInfo.exe 28.02.2020 16:59 Application 373 KB Image: DocusnapTsInfo.exe 28.02.2020 16:59 PEM File 2 KB Image: DocusnapTsInfo.exe 28.02.2020 16:59 Application 171 KB		🚳 DocusnapSP13.exe	04.07.2021 20:30	Application	970 KB			
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Dublickey.pem 28.02.2020 16:59 PEM File 2 KB Im schtasks_win2003.exe 28.02.2020 16:59 Application 171 KB		🔳 psexec.exe	28.02.2020 16:59	Application	373 KB			
IE schtasks_win2003.exe 28.02.2020 16:59 Application 171 KB		publickey.pem	28.02.2020 16:59	PEM File	2 KB			
		schtasks_win2003.exe	28.02.2020 16:59	Application	171 KB			

15 items

:::

Figure 2 - PSExec Path



The connection test is performed via the following command:



Figure 3 - PSExec Connection Test

There is no feedback during the password entry.

If the connection is successful, the **hostname** command can also be executed. As a result, the host name of the remote system should be displayed.



Figure 4 - PSExec Hostname



2.1.1 Connection test successful

If the connection test is successful, problems on the part of PSExec can be excluded.

In this case, the Docusnap server configuration should be checked. In the first step of the server configuration, it is possible to define a user.

Server Cor	figuration					- 🗆
1		2	(3	4	5
Server Start	Settings	Server Database	Server N	lail Settings	Server API	Server Settings
Configure Do	cusnap Server:					
Startup Type:	Automatic			- Language:	English	•
User:	.\admin			Password:	****	
Execute Inverse Execute Inv	entory in Own Proc art the inventory ir id user. For further	ress n an own process, the loc r information, refer to the	al security polici help manual (F	es 'Replace a pr 1).	ocess level token' and 'Log c	on as a service' are required
Execute Inve Remark: To st for the specifie Debugging Enable Debu	art the inventory in art the inventory in d user. For further g Mode	ress n an own process, the loc r information, refer to the	al security polici help manual (F	es 'Replace a pr 1).	ocess level token' and 'Log o	on as a service' are required
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Figure 5 - Docusnap Server Configuration



If a user is set here, it should be checked whether this user is set in the required local security policies Log on as a service and Replace a process level token.

- 1. Open Local Security Policies via Windows search with secpol.msc
- 2. Local Policies
- 3. User Rights Assignment
- 4. Open Log on as service and check if the server service user is set
- 5. Open Replace a process level token and check if the server service user is set

🚡 Local Security Policy	🚡 Local Security Policy - 🗆 🗙										
<u>F</u> ile <u>A</u> ction <u>V</u> iew <u>H</u> elp											
 Security Settings Account Policies Local Policies Audit Policy User Rights Assignment Security Options Windows Defender Firewall with Adva Network List Manager Policies Public Key Policies Software Restriction Policies Software Restriction Policies IP Security Policies on Local Compute Advanced Audit Policy Configuration 	Policy Force shutdown from a remote system Generate security audits Force shutdown from a remote system Force shutdown from a remote system Force shutdown from a remote system Force security audits Force shutdown from a remote system Force security audits Force shutdown from a remote system Force security audits Force shutdown from a remote system For file single process For file single process For file single process For Force shutdown from a remote system For file single process For Force shutdown from a remote system For Force shutdown from system For Force shutdo	Security Setting Administrators LOCAL SERVICE, NETWO LOCAL SERVICE, NETWO Users Administrators, Window Administrators Administrators Administrators Administrators Administrators Administrators Administrators Administrators Administrators Administrators	^								
	Remove computer from docking station	Administrators									
	Restore files and directories	Administrators Backup									
	Shut down the system	Administrators, Backup									
	Synchronize directory service data	Administrators, backup									
Take ownership of files or other objects											
< >	and and ownership of thes of other objects	Auministrators	~								

Figure 6 - Local Security Policies

If all security policies are already set, you can check in the Docusnap Server configuration if the option **Execute Inventory in Own Process** is enabled. This should be set.

Startup Type:	Automatic 🔹	Language:	English
User:	.\admin	Password:	****
✓ Execute Inver	tory in Own Process		

Remark: To start the inventory in an own process, the local security policies 'Replace a process level token' and 'Log on as a service' are required for the specified user. For further information, refer to the help manual (F1).

Figure 7 - Execute Inventory in Own Process



2.1.2 Connection test failed

If the connection test fails, the following steps should be checked.

Permissions

A user who is a local administrator on the target system must be used for the connection.

Antivirus

Often the connection fails because PSExec is blocked by the installed antivirus solution. Usually, a warning message appears in the antivirus console on the system that the execution of PSExec has been blocked.

Sometimes it can also happen that the PSExec.exe is deleted on the Docusnap system. In this case, PSExec will no longer be in the corresponding path at all.

To prevent this error in the future, an exception for PSExec must be set up in the antivirus solution.

Services

If a workstation is scanned, the workstation service must be executed.

🌼 Services						_	×
<u>File Action View</u>	<u>H</u> elp						
I I I I I I I I I I I I I I I I I I I	🗼 📝 📷 🛛 🔺 🔳 🖬 🕪						
🔍 Services (Local)	O. Services (Local)						
	Select an item to view its description.	Name	Description	Status	Startup Type	Log On As	^
		Windows Mobile Hotspot S	Provides th		Manual (Trig	Local Service	
		Windows Modules Installer	Enables inst	Running	Manual	Local System	
		Windows Perception Service	Enables spa		Manual (Trig	Local Service	
		Windows Push Notification	This service	Running	Automatic	Local System	
		Windows Push Notification	This service	Running	Automatic	Local System	
		Windows PushToInstall Serv	Provides inf	2	Manual (Trig	Local System	
		Windows Remediation Servi	Remediates	Running	Automatic (D	Local System	
		🤹 Windows Remote Manage	Windows R	-	Manual	Network Service	
		Windows Search	Provides co	Running	Automatic (D	Local System	
		🍓 Windows Time	Maintains d	Running	Manual (Trig	Local Service	
		🤹 Windows Update	Enables the	-	Manual (Trig	Local System	
		Windows Update Medic Ser	Enables rem		Manual	Local System	
		WinHTTP Web Proxy Auto	WinHTTP i	Running	Manual	Local Service	
		🥘 Wired AutoConfig	The Wired		Manual	Local System	
		WLAN AutoConfig	The WLANS		Manual	Local System	
		🥘 WMI Performance Adapter	Provides pe		Manual	Local System	
		Work Folders	This service		Manual	Local Service	
		🧠 Workstation	Creates and	Running	Automatic	Network Service	
		🎑 WWAN AutoConfig	This service		Manual	Local Service	
		🖏 Xbox Accessory Manageme	This service		Manual (Trig	Local System	
		🎑 Xbox Game Monitoring	This service		Manual (Trig	Local System	
		🏟 Xbox Live Auth Manager	Provides au		Manual	Local System	
		🎑 Xbox Live Game Save	This service		Manual (Trig	Local System	
		🖏 Xbox Live Networking Service	This service		Manual	Local System	
	Extended Standard						*
	(Excined / Standard /						

Figure 8 - Workstation Service



On a server, this is the server service

Q,		Services	;			_ □)	۲.
<u>File Action V</u> iew	<u>H</u> elp						
	🗟 🗟 🔽 📷 🕨 🔳 💵 🕪						
🔍 Services (Local)	Services (Local)						
	Windows Encryption Provider Host	Name 🔺	Description	Status	Startup Type	Log On As	^
Service		🌼 Remote Procedure Call (RPC)	The RPCSS service is the Servic	Running	Automatic	Network Service	
		🌼 Remote Procedure Call (RPC) Locator	In Windows 2003 and earlier ve		Manual	Network Service	
	Start the service	🔍 Remote Registry	Enables remote users to modif	Running	Automatic (Trigger	Local Service	
		🔍 Resultant Set of Policy Provider	Provides a network service that		Manual	Local System	
	Description:	🧠 Routing and Remote Access	Offers routing services to busin		Disabled	Local System	
	Windows Encryption Provider Host	🍓 RPC Endpoint Mapper	Resolves RPC interfaces identifi	Running	Automatic	Network Service	
	Service brokers encryption related	RPC/HTTP Load Balancing Service	Coordinates and routes the net		Manual	Network Service	
	Encryption Providers to processes	🔍 Secondary Logon	Enables starting processes und		Manual	Local System	
	that need to evaluate and apply EAS	🔍 Secure Socket Tunneling Protocol Serv	Provides support for the Secur		Manual	Local Service	
	policies. Stopping this will	🔍 Security Accounts Manager	The startup of this service sign	Running	Automatic	Local System	
	that have been established by the	🔍 Server	Supports file, print, and named	Running	Automatic	Local System	
	connected Mail Accounts	Shell Hardware Detection	Provides notifications for Auto	Running	Automatic	Local System	
		🔍 Smart Card	Manages access to smart cards		Disabled	Local Service	
		Smart Card Device Enumeration Service	Creates software device nodes	Running	Manual (Trigger Sta	Local System	≡
		Smart Card Removal Policy	Allows the system to be config		Manual	Local System	
		SNMP Trap	Receives trap messages genera		Manual	Local Service	
		Software Protection	Enables the download, installat		Automatic (Delayed	Network Service	
		Special Administration Console Helper	Allows administrators to remot		Manual	Local System	
		🔍 Spot Verifier	Verifies potential file system co		Manual (Trigger Sta	Local System	
		SSDP Discovery	Discovers networked devices a		Disabled	Local Service	
		Still Image Acquisition Events	Launches applications associat		Manual	Local System	\mathbf{r}
	Etended (Stradard (<	III			>	
	Extended Standard						

Figure 9 - Server Service

Share

The ADMIN\$ share must be available on the target system.

This can be tested via Windows Explorer.

🖵 📝 📙 🖛 ADMINS	5					_	o x
File Home Shar	re View						~ 🕐
← → ∽ ↑ 🖵 \\D9	SEX01.dsra.local\ADMINS				~	Search ADMINS	م
4 Quick accord	Name	Date modified	Туре	Size			^
	ADAM	07.12.2020 15:23	File folder				
lene One Drive	ADFS	22.08.2013 17:39	File folder				
This PC	AppCompat	22.08.2013 17:39	File folder				
- msrc	apppatch	22.11.2019 10:42	File folder				
💣 Network	AppReadiness	12.03.2019 11:38	File folder				
	assembly	22.11.2019 13:49	File folder				
	Boot	22.08.2013 17:39	File folder				
		22.08.2013 17:39	File folder				
		07.12.2020 15:24	File folder				
	Cluster	10.01.2019 17:34	File folder				
	- CSC	12.01.2015 19:54	File folder				
	Cursors	22.08.2013 17:39	File folder				
	debug	12.01.2015 17:34	File folder				
	DesktopTileResources	22.08.2013 17:39	File folder				
	diagnostics	22.08.2013 17:39	File folder				
		22.08.2013 17:46	File folder				
	📙 Downloaded Program Files	22.08.2013 17:39	File folder				
	drivers	22.08.2013 17:39	File folder				
	en-US	12.01.2015 19:54	File folder				
	A Fonts	05.06.2019 08:02	File folder				
	Globalization	22.08.2013 17:39	File folder				
		02.01.2019 09:43	File folder				
	📙 idmu	07.12.2020 15:23	File folder				~
99 items							

Figure 10 - Windows Explorer



The share can also be checked directly on the target system via the Computer Management.

🛃 Computer Management	🚡 Computer Management – 🗆 X									
<u>File Action View H</u> elp										
Ecomputer Management (Local	Share Name	Folder Path	Туре	# Client Connections	Description	Actions				
V 👔 System Tools	👸 ADMIN\$	C:\WINDOWS	Windows	0	Remote Admin	Shares				
 Task scheduler Task scheduler Task scheduler Stared Folders Sessions Sessions Open Files Merformance Device Manager Storage Tokk Management Services and Applications 	23 क्यू 2391 हिं	C:\	Windows Windows	0 0	Default share Remote IPC	More Ac	ions	,		
< >>										

Figure 11 - Computer Management

Windows Network

File and printer sharing must be enabled on the target system.

This can be checked on the target system via the Network and Sharing Center. To do this, open the Control Panel and select the Network and Sharing Center.

Network and Sharing Center	r				_	\times					
← → × ↑ 💆 > Contr	rol Panel > Network and Internet > Netw	vork and Sharing Center	v ē	,		Q					
Control Panel Home	View your basic network	nformation and set up connections									
	View your active networks										
Change adapter settings Change advanced sharing	Ethernet0 Status	Access type:Internet									
settings	General	Connections: 🔋 Ethernet0				× ٩					
See also Internet Options	Connection IPv4 Connectivity: IPv6 Connectivity: Media State: Duration: Speed: Details Activity Sent — Bytes: 197.168.702 Properties Disable Dia	Ethernet0 Properties Vetworking Connect using: Intel(R) 82574L Gigabit Network Connection Configure This cgnnection uses the following items: Image: Client for Microsoft Networks Image: Client for Microsoft Network Adapter Multiplexor Protocol Image: Client for Microsoft LLDP Protocol Driver Image: Client for Microsoft Network, Adapter Multiplexor Protocol Image: Microsoft LLDP Protocol Driver Image: Client for Microsoft Network, Adapter Multiplexor Protocol Image: Microsoft LLDP Protocol Driver Image: Microsoft LLDP Protocol Driver Image: Microsoft LLDP Protocol Driver Image: Microsoft Network Dandwidth,									
Windows Defender Firewall		OK Cancel									

Figure 12 - File and Printer Sharing



Process is already running

Only one PSExec process can be executed per system simultaneously.

On the target system, it should be checked whether the *PSExecSVC.exe* process or a Docusnap process is running - for example, the Exchange scan runs the *DocusnapEX13.exe* process.

If one of the two processes is still active, it should be terminated manually and the connection test repeated.

🔁 🗖 Task Manager 📃 🗖 🗙								
<u>F</u> ile <u>O</u> ptions <u>V</u> iew								
Processes Performance	Users	Details Services						
Name 📩	PID	Status	User name	CPU	Memory (private w ^			
MSExchangeTranspo	6400	Running	NETWORK SERVICE	00	29			
MSExchangeTranspo	5828	Running	SYSTEM	00	35			
MSOIDSVC.EXE	1920	Running	SYSTEM	00	3			
MSOIDSVCM.EXE	1376	Running	SYSTEM	00				
📧 noderunner.exe	2588	Running	SYSTEM	00	91			
💷 noderunner.exe	3232	Running	SYSTEM	00	457			
💷 noderunner.exe	3248	Running	SYSTEM	00	= 28			
💷 noderunner.exe	3364	Running	SYSTEM	00	125			
PSEXESVC.EXE	18112	Running	SYSTEM	00				
💷 rdpclip.exe	15364	Running	administrator	00	1			
📧 rdpinput.exe	15284	Running	administrator	00				
RedGate.Client.Servi	1512	Running	SYSTEM	00	33			
rundll32.exe	1892	Running	SYSTEM	00	20			
scanningprocess.exe	4468	Running	LOCAL SERVICE	00	24			
scanningprocess.exe	4608	Running	LOCAL SERVICE	00	24			
💷 scanningprocess.exe	4668	Running	LOCAL SERVICE	00	24 🗸			
<		Ш			>			
Fewer <u>d</u> etails								



Windows Updates

If all steps have been checked successfully and the inventory still fails, you should check whether Windows updates are still pending on the target system.



3. Mount of remote share failed

In some cases, the message Mount of remote share failed is displayed.

On the system that performs the inventory, it should be checked whether the *Computer Browser* service is active.

🌼 Services						_	×
<u>F</u> ile <u>A</u> ction <u>V</u> iew	<u>H</u> elp						
🔶 🔿 🛅 🔂) 📑 🛛 📷 🕨 🔲 II 🕪						
🔍 Services (Local)	O Services (Local)	-					
	Windows Time	Name	Description	Status	Startup Type	Log On As	^
	Stop the service Restart the service Description: Maintains date and time synchronization on all clients and servers in the network. If this service is stopped, date and time synchronization will be unavailable. If this service is disabled, any services that explicitly depend on it will fail to start.	 Bluetooth Support Service Bluetooth User Support Ser BranchCache Capability Access Manager CaptureService_17d58385 Certificate Propagation Client License Service (ClipS COM+ Event System COM+ Event System COM+ System Application COM+ System Application Connected Devices Platfor Connected Devices Platfor Connected Devices Platfor Connected User Experience Contact Data_17d58385 CoreMessaging Credential Manager Cryptographic Services Data Usage DCOM Server Process Laun 	The Bluetoo The Bluetoo This service Provides fac OneCore Ca Copies user Provides inf The CNG ke Supports Sy Manages th Maintains a This service This user se The Connec Indexes con Manages co Provides se Provides thr Provides da Network da The DCOM	Running Running Running Running Running Running Running Running Running Running Running Running Running	Manual (Trig Manual (Trig Manual Manual Manual (Trig Manual (Trig Manual (Trig Automatic Manual (Trig Automatic Manual (Trig Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual Automatic Manual (Trig	Local Service Local System Network Service Local System Local System Network Service Local System Local System Local System Network Service Local System	
		Device Association Service	Performs co Enables pair Enables a c	Running	Automatic (D Automatic (T Manual (Trig	Network Service Local System Local System	J
	Extended Standard	Device Management Enroll	Porforms D		Manual	Local System	•

Figure 14 - Computer Browser Service



4. Access Denied

The Access Denied error may occur if files are still open in the path \\Server\Admin\$\Temp\Docusnap\scan on the target system.

This can be checked via Computer Management on the target system.

Somputer Management					_		×		
File Action View Help									
🗢 🄿 🙍 📆 🖉									
Computer Management (Local	Open File	Accessed By	Туре	# Locks	Open Mode		Actions		
V 🛛 System Tools		These					Open Files		
> (Task Scheduler		Inere	e are no items to s	snow in this v	/iew.		Mars Action	-	•
> 🛃 Event Viewer							WOTE ACTION	5	
✓ Shared Folders									
8 Shares									
2 Sessions									
in Open Files									
> See Local Users and Groups									
Device Manager									
Storage									
Windows Server Backur									1
Disk Management									1
Services and Applications									1
									1
									1
									1
									1
									1
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									1
					_				1

Figure 15 - Computer Management - Open Files

If files are still open here, they should be closed and the inventory repeated.



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Version history

Date	Description
08/27/2021	Document created
07/12/2022	Version 1.1 - Deleted DNS and DHCP Inventory

