How to Configure WMI on the Windows Server

Introduction

This article will present the 6 steps on how to configure WMI on the Windows Server to be able to communicate with the NMIS9 application to be monitored as a node.

STEP 1 - Enabled these services to start automatically on services.msc (server, remote registry, and Windows Management Instrumentation).

Right-click on the Windows symbol then click on the run option.

Programs and Features
Power Options
Event Viewer
System
Device Manager
Network Connections
Disk Management
Computer Management
Command Prompt
Command Prompt (Admin)
Task Manager
Control Panel
File Explorer
Search
Run
Shut down or sign out
Desktop

The run window will pop-up then type **service.msc**.

Recycle Bir	1			
_		X		
	Run	*		
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.			
Open:	services.msc 🗸 🗸		Windows Server 2012 R2	
	😗 This task will be created with administrative privileges.			
			Windows Converting 2012 D2 Cherdend Eve	Justice
	OK Cancel Browse		Windows Server 2012 K2 Standard Eva Windows License valid for	94 da <u>ys</u>
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Check if the Server service is status running and the startup type is automatic.

Services							
File Action View	Help						
← → □ □ 0	à 📑 🛛 🖬 🔹 🖬 🕨						
Services (Local)	Services (Local)						
	Server	Name	Description	Status	Startup Type	Log On As	^
		🔍 Remote Registry	Enables rem		Automatic (Trigger Start)	Local Service	
	Stop the service	Resultant Set of Policy Provider	Provides a n		Manual	Local Syste	
	Restart the service	Routing and Remote Access	Offers routi		Disabled	Local Syste	
		🔍 RPC Endpoint Mapper	Resolves RP	Running	Automatic	Network S	
	Description:	Secondary Logon	Enables star	-	Manual	Local Syste	
	Supports file, print, and named-pipe	Secure Socket Tunneling Protocol Service	Provides su		Manual	Local Service	
	sharing over the network for this	Security Accounts Manager	The startup	Running	Automatic	Local Syste	
	these functions will be unavailable. If	🛃 Server	Supports fil	Running	Automatic	Local Syste	
	this service is disabled, any services	Shell Hardware Detection	Provides no	Running	Automatic	Local Syste	•
	that explicitly depend on it will fail to	🔍 Smart Card	Manages ac		Disabled	Local Service	
	start.	🌼 Smart Card Device Enumeration Service	Creates soft		Manual (Trigger Start)	Local Syste	
		🌼 Smart Card Removal Policy	Allows the s		Manual	Local Syste	
		🔍 SNMP Trap	Receives tra		Manual	Local Service	
		🔍 Software Protection	Enables the		Automatic (Delayed Start, Trig	Network S	
		🌼 Special Administration Console Helper	Allows adm		Manual	Local Syste	
5		🔍 Spot Verifier	Verifies pot		Manual (Trigger Start)	Local Syste	
		🔍 SSDP Discovery	Discovers n		Disabled	Local Service	
		🔍 Storage Tiers Management	Optimizes t		Manual	Local Syste	
		🔍 Superfetch	Maintains a		Manual	Local Syste	
		System Event Notification Service	Monitors sy	Running	Automatic	Local Syste	
		🔍 System Events Broker	Coordinates	Running	Automatic (Trigger Start)	Local Syste	≡
		🔍 Task Scheduler	Enables a us	Running	Automatic	Local Syste	
		TCP/IP NetBIOS Helper	Provides su	Running	Automatic (Trigger Start)	Local Service	
		🔍 Telephony	Provides Tel		Manual	Network S	
		🔍 Themes	Provides us	Running	Automatic	Local Syste	
		🍓 Thread Ordering Server	Provides or		Manual	Local Service	
		🔍 UPnP Device Host	Allows UPn		Disabled	Local Service	
		🍓 User Access Logging Service	This service	Running	Automatic (Delayed Start)	Local Syste	
		🔍 User Profile Service	This service	Running	Automatic	Local Syste	
	Į	🕮 Virtual Disk	Provides m	Running	Manual	Local Syste	~
	\Extended \Standard /						
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Check if the Remote Registry service is status running and the startup type is automatic.

Services							
File Action View Help							
	Q 🛃 🚺 📷 🕨 🔲 II IV						
Services (Local)	Services (Local)	-					
	Remote Registry	Name	Description	Status	Startup Type	Log On As	^
		Remote Desktop Services	Allows user		Manual	Network S	
	Start the service	Remote Desktop Services UserMode Port	Allows the r		Manual	Local Syste	
		🔍 Remote Procedure Call (RPC)	The RPCSS	Running	Automatic	Network S	
	Description:	🧟 Remote Procedure Call (RPC) Locator	In Windows	-	Manual	Network S	
	Enables remote users to modify	😳 Remote Registry	Enables rem		Automatic (Trigger Start)	Local Service	
	registry settings on this computer. If	Resultant Set of Policy Provider	Provides a n		Manual	Local Syste	4
	this service is stopped, the registry	🍓 Routing and Remote Access	Offers routi		Disabled	Local Syste	
	computer. If this service is disabled,	🍓 RPC Endpoint Mapper	Resolves RP	Running	Automatic	Network S	
	any services that explicitly depend on	🏩 Secondary Logon	Enables star		Manual	Local Syste	
	it will fail to start.	🔍 Secure Socket Tunneling Protocol Service	Provides su		Manual	Local Service	
		🍓 Security Accounts Manager	The startup	Running	Automatic	Local Syste	
		🔍 Server	Supports fil	Running	Automatic	Local Syste	
		🎑 Shell Hardware Detection	Provides no	Running	Automatic	Local Syste	
		🔍 Smart Card	Manages ac		Disabled	Local Service	
k l		🔍 Smart Card Device Enumeration Service	Creates soft		Manual (Trigger Start)	Local Syste	
15		🎑 Smart Card Removal Policy	Allows the s		Manual	Local Syste	
		🔍 SNMP Trap	Receives tra		Manual	Local Service	
		🔍 Software Protection	Enables the		Automatic (Delayed Start, Trig	Network S	
		🔍 Special Administration Console Helper	Allows adm		Manual	Local Syste	
		🔍 Spot Verifier	Verifies pot		Manual (Trigger Start)	Local Syste	=
		🔍 SSDP Discovery	Discovers n		Disabled	Local Service	
		🌼 Storage Tiers Management	Optimizes t		Manual	Local Syste	
		🔍 Superfetch	Maintains a		Manual	Local Syste	
		System Event Notification Service	Monitors sy	Running	Automatic	Local Syste	
		🔍 System Events Broker	Coordinates	Running	Automatic (Trigger Start)	Local Syste	
		🔍 Task Scheduler	Enables a us	Running	Automatic	Local Syste	
		CP/IP NetBIOS Helper	Provides su	Running	Automatic (Trigger Start)	Local Service	
		🔍 Telephony	Provides Tel		Manual	Network S	
		C Themes	Provides us	Running	Automatic	Local Syste	-
	Estended (Standard (C. Thread Ordering Server	Provides or		Manual	Local Service	
						6:07 PM	1
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Check if the Windows Management Instrumentation service is status running and the startup type is automatic.

Services							
File Action View	Help						
	i 🗟 🔽 🖬 🕨 🔳 🕪						
🔍 Services (Local)	Services (Local)						
	Windows Management	Name 🔺	Description	Status	Startup Type	Log On As	^
	Instrumentation	🔍 UPnP Device Host	Allows UPn		Disabled	Local Service	
		🎑 User Access Logging Service	This service	Running	Automatic (Delayed Start)	Local Syste	
	Stop the service	🔍 User Profile Service	This service	Running	Automatic	Local Syste	
	Restart the service	🔍 Virtual Disk	Provides m	Running	Manual	Local Syste	
		🎑 Volume Shadow Copy	Manages an		Manual	Local Syste	
	Description	🍓 Windows Audio	Manages au		Manual	Local Service	
	Provides a common interface and	🍓 Windows Audio Endpoint Builder	Manages au		Manual	Local Syste	
	object model to access management	🤐 Windows Color System	The WcsPlu		Manual	Local Service	
	information about operating system,	🔍 Windows Connection Manager	Makes auto	Running	Automatic (Trigger Start)	Local Service	
	devices, applications and services. If	🔍 Windows Driver Foundation - User-mod	Creates and		Manual (Trigger Start)	Local Syste	
	Windows-based software will not	Windows Encryption Provider Host Service	Windows E		Manual (Trigger Start)	Local Service	
	function properly. If this service is	🔍 Windows Error Reporting Service	Allows error		Manual (Trigger Start)	Local Syste	
	disabled, any services that explicitly	Windows Event Collector	This service		Manual	Network S	
	depend on it will fail to start.	🔍 Windows Event Log	This service	Running	Automatic	Local Service	
		🔍 Windows Firewall	Windows Fi	Running	Automatic	Local Service	
		🔍 Windows Font Cache Service	Optimizes p	Running	Automatic	Local Service	
		🔍 Windows Installer	Adds, modi		Manual	Local Syste	
~		😳 Windows Licensing Monitoring Service	This service	Running	Automatic	Local Syste	.
		Solution Contract Con	Provides a c	Running	Automatic	Local Syste	
		Windows Modules Installer	Enables inst		Manual	Local Syste	
		Windows Presentation Foundation Font	Optimizes p		Manual	Local Service	
		强 Windows Remote Management (WS-Ma	Windows R	Running	Automatic	Network S	
		Windows Store Service (WSService)	Provides inf		Manual (Trigger Start)	Local Syste	
		🥋 Windows Time	Maintains d	Running	Manual (Trigger Start)	Local Service	
		😪 Windows Update	Enables the		Manual (Trigger Start)	Local Syste	
		WinHTTP Web Proxy Auto-Discovery Ser	WinHTTP i	Running	Manual	Local Service	≡
		Wired AutoConfig	The Wired		Manual	Local Syste	
		WMI Performance Adapter	Provides pe		Manual	Local Syste	
		Same Workstation	Creates and	Running	Automatic	Network S	~
	Extended Standard						
	Extended / Standard /						
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OBSERVATION: If these services are not running. You need to right-click on the service and then click on Start.

😘 Windows Management Instrumentation	Provides a c		Automatic	Local Syste
🥋 Windows Modules Installer	Enables inst		Manual	Start
🔍 Windows Presentation Foundation Font	Optimizes p		Manual	Stop
🔍 Windows Remote Management (WS-Ma	Windows R	Running	Automatic	Pause
🔍 Windows Store Service (WSService)	Provides inf		Manual (Trigger Start)	Resume
鵒 Windows Time	Maintains d		Manual (Trigger Start)	Portart
鵒 Windows Update	Enables the		Manual (Trigger Start)	Restart
🔍 WinHTTP Web Proxy Auto-Discovery Ser	WinHTTP i	Running	Manual	All Tasks 🕨 🕨
鵒 Wired AutoConfig	The Wired		Manual	Refresh
鵒 WMI Performance Adapter	Provides pe		Manual	D
🔍 Workstation	Creates and	Running	Automatic	Properties
				Help

After you click Start it will Load the service.

vices (Local) Services (Local)							
Service Control	x	▲	Description	Status	Startup Type	Log On A	٩s
Service control		ce Host	Allows UPn		Disabled	Local Ser	rvice
Windows is attempting to start the following service on Local (Computer	s Logging Service	This service		Automatic (Delayed Start)	Local Sys	ste
Windows Management Instrumentation		e Service	This service	Running	Automatic	Local Sys	ste
		c	Provides m	Running	Manual	Local Sys	ste
		adow Copy	Manages an		Manual	Local Sys	ste
		Audio	Manages au		Manual	Local Ser	rvice
		Audio Endpoint Builder	Manages au		Manual	Local Sys	ste
Close		Color System	The WcsPlu		Manual	Local Ser	rvic
	117	connection Manager	Makes auto	Running	Automatic (Trigger Start)	Local Ser	rvic
Windows-based software will not	🎑 Windows	Driver Foundation - User-mod	Creates and		Manual (Trigger Start)	Local Sys	ste.
disabled any services that explicitly	🎑 Windows	Encryption Provider Host Service	Windows E		Manual (Trigger Start)	Local Ser	rvic
depend on it will fail to start.	🎑 Windows	Error Reporting Service	Allows error		Manual (Trigger Start)	Local Sys	ste.
	🎑 Windows	Event Collector	This service		Manual	Network	S
	🎑 Windows	Event Log	This service	Running	Automatic	Local Ser	rvic
	🎑 Windows	Firewall	Windows Fi	Running	Automatic	Local Ser	rvic
	🔍 Windows	Font Cache Service	Optimizes p	Running	Automatic	Local Ser	rvic
	🔍 Windows	nstaller	Adds, modi		Manual	Local Sys	ste.
	🎑 Windows	Licensing Monitoring Service	This service	Running	Automatic	Local Sys	ste.
	🔍 Windows I	Management Instrumentation	Provides a c		Automatic	Local Sys	ste.
	🍳 Windows	Modules Installer	Enables inst		Manual	Local Sys	ste.
	🎑 Windows	Presentation Foundation Font	Optimizes p		Manual	Local Ser	rvic
	🔍 Windows	Remote Management (WS-Ma	Windows R	Running	Automatic	Network	S.,
	🔍 Windows	Store Service (WSService)	Provides inf		Manual (Trigger Start)	Local Sys	ste.
	🔍 Windows	Time	Maintains d		Manual (Trigger Start)	Local Ser	rvic
	🔍 Windows	Update	Enables the		Manual (Trigger Start)	Local Sys	ste.
	🔍 WinHTTP	Web Proxy Auto-Discovery Ser	WinHTTP i	Running	Manual	Local Ser	rvic
	🔍 Wired Aut	oConfig	The Wired		Manual	Local Sys	ste.
	🔍 WMI Perfo	ormance Adapter	Provides pe		Manual	Local Sys	ste.
	🎑 Workstatio	on	Creates and	Running	Automatic	Network	S
Extended Standard							
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If the Startup type is not selected Automatic you can right-click and then Properties.

端 Windows Licensing Monitoring Service	This service	Running	Automatic		Local Syste
🤹 Windows Management Instrumentation 👘	Provides a c	Running	Autor	Ch-sh	Local Syste
🍓 Windows Modules Installer	Enables inst		Manu	Start	Local Syste
🔍 Windows Presentation Foundation Font	Optimizes p		Manu	Stop	Local Service
🔍 Windows Remote Management (WS-Ma	Windows R	Running	Autor	Pause	Network S
🔍 Windows Store Service (WSService)	Provides inf		Manu	Resume	Local Syste
🔍 Windows Time	Maintains d	Running	Manu	Restart	Local Service
🍓 Windows Update	Enables the		Manu	All Tasks	Local Syste
🔅 WinHTTP Web Proxy Auto-Discovery Ser	WinHTTP i	Running	Manu	All Tasks 🕨	Local Service
🍓 Wired AutoConfig	The Wired		Manu	Refresh	Local Syste
🔍 WMI Performance Adapter	Provides pe		Manu	Properties	Local Syste
🔍 Workstation	Creates and	Running	Autor		Network S
				Help	

On the Startup Type, this is a drop-down. Select Automatic.

Windows Mana	gement Instrumentation Properties (Lo				
General Log On	Recovery Dependencies				
Service name:	Winmgmt				
Display name:	Windows Management Instrumentation				
Description:	Description: Provides a common interface and object model to access management information about operating				
Path to executable C:\Windows\syste	Path to executable: C:\Windows\system32\svchost.exe -k netsvcs				
Startup type:	Automatic 🗸				
	Automatic (Delayed Start) Automatic Manual				
Service status:	Kunning				
Start	Stop Pause Resume				
You can specify th from here.	ne start parameters that apply when you start the service				
Start parameters:					
	OK Cancel Apply				

STEP 2 - Enabled Distributed COM - DCOM for Windows Server

Right-click on the Windows symbol then click on the run option. The run window will pop-up then type **dcomcnfg**.

Recycle Bin		
	Run 🗙	
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	
Open:	dcomcnfg V	🕂 Windows Server 2012 R2
	💱 This task will be created with administrative privileges.	
	OK Cancel Browse	Windows Server 2012 R2 Standard Evaluation Windows License valid for 94 days
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Go to My Computer then right-click select Properties.

Recycle Bin		
	Component Services	_ 🗆 X
	le File Action View Window Help	_ & ×
	Console Root Name	Actions
	Component Services Computers Computers Computers	My Computer 🔺
	∠ My Computer Processes	More Actions
	COM C Refresh all components ted Transaction Coordi	
	View View Manufacture from them	
	Distribute	
	Services (Local)	
	Properties	
	neip	
-		
	Opens the properties dialog box for the current selection.	
	willows server	2012 NZ Stalluaru Evaluation
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On My Computer Properties go to the Default Properties tab, Check the box Enable Distributed COM on this computer, on the Default Authentication Level: Connect, and on Default Impersonation Level: Identity. After your selected, all these options, click on the OK button for the changes to take effect.



STEP 3 - Configuring DCOM communication for Windows Server

Sames steps as Step 2, But now you will select the Default Protocols tab. It needs to be listed as Connection-oriented TCP/IP.



If it is not list it. Click on the Add button then selected the Connection-oriented TCP/IP option.

Select DCOM protocol				
Please select the DCOM network protocol sequence that you want to add.				
Protocol Sequence:	Connection-oriented TCP/IP 🗸 🗸			
ОК	Connection-oriented TCP/IP Tunneling TCP/IP Cancel			

STEP 4 - Configuring User Accounts for DCOM on Windows Server

Sames steps as Step 2, But now you will select the COM tab.

On the Access Permission part, select the Edit Default button.



On the user's permission configure the Local Access and Remote Access to Allow.

Recycle Bin	à	Company Consister	
		Component Services	
	🧽 File Action View Window Help	My Computer Properties	_ & ×
	🗢 🔿 📶 🗙 🖾 🐼 🖬 🚺	General Options Default Properties	1
	Console Root	Default Protocols COM Security MSDTC]
	Component Services	Accese Permissione	
	⊿ Computers	Access Permission ? X	
	⊿ Ny Computer	Default Security	re Actions
	COM+ Applications		1
	Becom coming	Group or user names:	
	Distributed Transaction Coordinator	SELF	
	Event Viewer (Local)	Administrator (WIN-MMKMP1PLMLI)Administrator)	
	Services (Local)	& Administrators (WIN-MMKMP1PLMLI\Administrators)	
_			
		Add Remove	
		Permissions for Administrator Allow Deny	
		Remote Access	
7			
_			
-			
		OK Cancel	
		Windows	License valid for 94 days
			Build 9600
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On the Launch and Activation Permissions part, select the Edit Default button.



On the user's permission configure the Local Launch, Remote Launch, Local Activation, and Remote Activation to Allow.

Recycle Bin		
Recycle bin	(a.	Component Services
	le Action View Window Help	My Computer Properties ? X
	← ⇒ 2 □ × □ 0 ≥ 2 □ 1	General Ontions Default Properties
	Console Root	Default Protocols COM Security MSDTC
	Component Services	
	∠ Computers	Launch and Activation Permission
	COM+ Applications	Default Security
	▷ DCOM Config	Group or user names:
	Running Processes Distributed Transaction Coordinator	SYSTEM
	Event Viewer (Local)	Administrator (WIN-MMKMP1PLMLI\Administrator) & Administrators (WIN-MMKMP1PLMLI\Administrators)
	Services (Local)	Reinteractive
		Add Remove
N		
7		
		Remote Launch
		Remote Activation
		OK Cancel
	·	
		Windows Server 2012 R2 Statiudru Evaluation Windows Liconse valid for 04 days
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STEP 5 - Configuring Firewall on Windows Server

Right-click on the Windows symbol then click on the run option. The run window will pop-up then type **wf.msc**.

OBSERVATION: The firewall is located between your NMIS9 application and the Windows Server. So, you need to configure the firewall as an exception to permit DCOM communications.

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Recycle i	2011	
3		
*		
	Run	
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.	t .
Open	: <mark>wf.msc</mark> ✓	✓ Windows Server 2012 R2
	😵 This task will be created with administrative privileges.	
	OK Cancel Browse	Windows Server 2012 R2 Standard Evaluation
		Windows License valid for 94 days Build 9600
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We need to create one Inbound Rule to allow communication between the Windows Server and the NMIS9 application. So, right-click on Inbound Rules and then the New Rule option.

<i> </i>			Windows Fir	ewall with Advanced Secu	urity				_	D X
File Action Vie	w Help									
🗢 🔿 🙍	🗟 🛿 🖬									
Windows Firewall with Advance Inbound Rules Actions										
式 Inbound Rule	es.			Group	Profile	Enabled	Action	~	Inbound Rules	
Connorti	New Rule		rectory Domain Controller - Ec	Active Directory Domain Ser	All	Yes	Allow		New Rule	
	Filter by Profi	le 🕨	rectory Domain Controller - Ec	Active Directory Domain Ser	All	Yes	Allow			
	Filter by State	e 🔸	rectory Domain Controller - LD	Active Directory Domain Ser	All	Yes	Allow	_	Filter by Profile	•
	Filter by Grou	ip 🕨	rectory Domain Controller - LD	Active Directory Domain Ser	All	Yes	Allow	- -	Filter by State	· · ·
	10	· .	rectory Domain Controller - LD	Active Directory Domain Ser	All	Yes	Allow		Filter by Group	• •
	view	,	rectory Domain Controller - Net	Active Directory Domain Ser	All	Yes	Allow		View	
	Refresh		rectory Domain Controller - SA	Active Directory Domain Ser	All	Yes	Allow		VIEW	
	Export List		rectory Domain Controller - SA	Active Directory Domain Ser	All	Yes	Allow		Refresh	
	Help		rectory Domain Controller - Sec	Active Directory Domain Ser	All	Yes	Allow		🔒 Export List	
	Theip		rectory Domain Controller - Sec	Active Directory Domain Ser	All	Yes	Allow		7 Help	
		🕜 Active D	irectory Domain Controller - W3	Active Directory Domain Ser	All	Yes	Allow			
		🕜 Active D	irectory Domain Controller (RPC)	Active Directory Domain Ser	All	Yes	Allow		Active Directory [Dom 🔺
		🕜 Active D	irectory Domain Controller (RPC	Active Directory Domain Ser	All	Yes	Allow		Disable Rule	
		🕜 Active D	irectory Web Services (TCP-In)	Active Directory Web Services	All	Yes	Allow		/ Cut	
3		Branch C	Cache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	No	Allow	Ш,		
		BranchC	Cache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All	No	Allow		🗎 Сору	
		BranchC	Cache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No	Allow		🗶 Delete	
		COM+ N	Network Access (DCOM-In)	COM+ Network Access	All	No	Allow		Properties	
		COM+ F	Remote Administration (DCOM-In)	COM+ Remote Administrati	All	No	Allow			
		🕜 Core Ne	tworking - Destination Unreacha	Core Networking	All	Yes	Allow		🦉 Неір	
		🕜 Core Ne	tworking - Destination Unreacha	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - Dynamic Host Config	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - Dynamic Host Config	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - Internet Group Mana	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - IPHTTPS (TCP-In)	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - IPv6 (IPv6-In)	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - Multicast Listener Do	Core Networking	All	Yes	Allow			
		🕜 Core Ne	tworking - Multicast Listener Qu	Core Networking	All	Yes	Allow			
		🕑 Core Ne	tworking - Multicast Listener Rep	Core Networking	All	Yes	Allow	~		
<	>	<	III				>			
Filter by Profile										
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Select Custom and click the Next button.



Select All programs, and click the Next button.



On the Protocol Type drop-down list, select TCP, and the Next button.

		Window	s Firewall with Advanced Security	– – X
File Action \	View Help			
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Windows Fire	wall with Advance Inbound Rules			Actions
Cuthound R	@	New Int	bound Rule Wizard	Inbound Rules 🔺
Subbuli Su Connectio	Protocol and Ports			🐹 New Rule
👂 🖳 Monitorir	Specify the protocols and ports to whic	h this rule applies.		
	Steps:	To add the order and another	and a describition of a serie 2	🝸 Filter by Group 🕨 🕨
	Rule Type	View 🕨		
	Program			a Refresh
	Protocol and Ports	Protocol type:	TCP v	🚔 Export List
	Scope	Protocol number:	6	? Help
	 Action 			Active Directory Dom
	Profile	Local port:	All Ports	Disable Rule
	Name		5 4 00 440 5000 5010	
		Pemete port:	Example: 80, 443, 5000-5010	A Cut
		Nemole poll.		lei Copy
			Example: 80, 443, 5000-5010	
+		(ICMP) settings:	Customize	Y Help
			< Back Next > Cancel	
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On **Which remote IP Addresses does this rule apply**, select these IP Addresses, and click on Add button. On the IP Address, on the pop-up window select this IP address or subnet. Then, click the OK button and the Next button.

@		Windows Firewall with Advanced Security	_ D X				
File Action	View Help						
🗢 🔿 🗖] 🗟 🔽 📷						
Windows Fire	wall with Advance Inbound	Rules	IP Address X				
Cuthound P	@	New Inbound Rule Wizard					
Connectio	Scope		Specify the IP addresses to match:				
👂 🕾 Monitorin	Specify the local and remote I	IP addresses to which this rule applies.	This IP address or subnet:				
			192.168.0.0/24				
	Steps:		Examples: 192.168.0.12 192.168.1.0/24				
	Rule Type		2002:9d3b:1a31:4:208:74ff.fe39:6c43				
	Program	Which local IP addresses does this rule apply to?	QUU2.3030.1831.4.200.741.1833.0/112				
	Protocol and Ports	 Any IP address 	Ihis IP address range:				
	Scope	O These IP addresses:	From:				
	Action		То:				
	Profile		Predefined set of computers:				
•	Name		Default gateway				
		Customize the interface types to which this rule applies:					
		Which remote IP addresses does this rule apply to?					
		Any IP address	inopenies				
		1 • These IP addresses:	👔 Help				
			2 Add				
			Remove				
		5					
		< Back	Next > Cancel				
< 111							
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Select Allow the connection, and click the Next button.



Select one or more rules that the new rule applied, and click the Next button. If no objection selects all of them.



Now give the rule a name and click on the Finish button.



That will be the result of the WMI_Inbound_rule.

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💣 Windows Firewall with Advance	Inbound Rules					Actions
🔛 Inbound Rules	Name	Group	Profile	Enabled	Action ^	Inbound Rules
Cutbound Rules	WMI Inbound rule		All	Yes	Allow	Mary Pula
Connection Security Rules	Active Directory Domain Controller - Ec	Active Directory Domain Ser	All	Yes	Allow	
Monitoring	Active Directory Domain Controller - Ec	Active Directory Domain Ser	All	Yes	Allow _	Filter by Profile
	Active Directory Domain Controller - LD	Active Directory Domain Ser	All	Yes	Allow	🛛 🍸 Filter by State 🔹 🕨
	Active Directory Domain Controller - LD	Active Directory Domain Ser	All	Yes	Allow	Filter by Group
	Active Directory Domain Controller - LD	Active Directory Domain Ser	All	Yes	Allow	
	O Active Directory Domain Controller - Net	Active Directory Domain Ser	All	Yes	Allow	View F
	Active Directory Domain Controller - SA	Active Directory Domain Ser	All	Yes	Allow	🖸 Refresh
	🖉 Active Directory Domain Controller - SA	Active Directory Domain Ser	All	Yes	Allow	🔜 Export List
	O Active Directory Domain Controller - Sec	Active Directory Domain Ser	All	Yes	Allow	
1	O Active Directory Domain Controller - Sec	Active Directory Domain Ser	All	Yes	Allow	1 Help
	O Active Directory Domain Controller - W3	Active Directory Domain Ser	All	Yes	Allow	WMI_Inbound_rule 🔺
	Active Directory Domain Controller (RPC)	Active Directory Domain Ser	All	Yes	Allow	Disable Rule
	O Active Directory Domain Controller (RPC	Active Directory Domain Ser	All	Yes	Allow	<u> </u>
	Active Directory Web Services (TCP-In)	Active Directory Web Services	All	Yes	Allow	26 Cut
	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	No	Allow	Сору
	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All	No	Allow	🗙 Delete
	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No	Allow	Properties
	COM+ Network Access (DCOM-In)	COM+ Network Access	All	No	Allow	Fibernes
	COM+ Remote Administration (DCOM-In)	COM+ Remote Administrati	All	No	Allow	P Help
	Ore Networking - Destination Unreacha	Core Networking	All	Yes	Allow	
	🖉 Core Networking - Destination Unreacha	Core Networking	All	Yes	Allow	
	Ore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	
	Ore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	
	🕜 Core Networking - Internet Group Mana	Core Networking	All	Yes	Allow	
	🕜 Core Networking - IPHTTPS (TCP-In)	Core Networking	All	Yes	Allow	
	🕜 Core Networking - IPv6 (IPv6-In)	Core Networking	All	Yes	Allow	
	🐼 Core Networking - Multicast Listener Do	Core Networking	All	Yes	Allow	
	🖉 Core Networking - Multicast Listener Qu	Core Networking	All	Yes	Allow ~	
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OBSERVATION: NOT REQUIRED. If you would like to test the WMI from a remote site for instance from the NMIS9 Server using the Windows application **wbemtest**.

(see the article How to test WMI using the wbemtest)

You will need to create one similar Outbound Rule on the Firewall.

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🔗 Windows Firewall with Advance	Outbound Rules						Actions
🗱 Inbound Rules	Name	Group	Profile	Enabled	Action		Outbound Rules
🔀 Outbound Rules	WMI OUT Rules		All	Yes	Allow		
E Connection Security Rules	Active Directory Domain Controller - Ec.,	Active Directory Domain Ser	All	Yes	Allow		New Rule
Monitoring	Active Directory Domain Controller - Ec	Active Directory Domain Ser	All	Yes	Allow		🛛 🍸 Filter by Profile 🛛 🕨
	Active Directory Domain Controller (TCP	Active Directory Domain Ser	All	Yes	Allow		🛛 🐨 Filter by State 🛛 🕨
	Active Directory Domain Controller (UDP	Active Directory Domain Ser	All	Yes	Allow		Filter by Group
	Active Directory Web Services (TCP-Out)	Active Directory Web Services	All	Yes	Allow		
	BranchCache Content Retrieval (HTTP-O	BranchCache - Content Retr	All	No	Allow		View 🕨
	BranchCache Hosted Cache Client (HTT	BranchCache - Hosted Cach	All	No	Allow	≡	🖸 Refresh
•	BranchCache Hosted Cache Server(HTTP	BranchCache - Hosted Cach	All	No	Allow		Export List
	BranchCache Peer Discovery (WSD-Out)	BranchCache - Peer Discove	All	No	Allow		
	Ocore Networking - DNS (UDP-Out)	Core Networking	All	Yes	Allow		I Help
	Ocore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow		WMI OUT Rules
	Ocore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow		Disable Rule
	Ore Networking - Group Policy (LSASS	Core Networking	Domain	Yes	Allow		
	Core Networking - Group Policy (NP-Out)	Core Networking	Domain	Yes	Allow		🦧 Cut
	Ocore Networking - Group Policy (TCP-O	Core Networking	Domain	Yes	Allow		Сору
	Ore Networking - Internet Group Mana	Core Networking	All	Yes	Allow		🗙 Delete
	Ocore Networking - IPHTTPS (TCP-Out)	Core Networking	All	Yes	Allow		
	Core Networking - IPv6 (IPv6-Out)	Core Networking	All	Yes	Allow		
	Ore Networking - Multicast Listener Do	Core Networking	All	Yes	Allow		? Help
	Ore Networking - Multicast Listener Qu	Core Networking	All	Yes	Allow		1
	Ore Networking - Multicast Listener Rep	Core Networking	All	Yes	Allow		1
	Ore Networking - Multicast Listener Rep	Core Networking	All	Yes	Allow		1
	Ore Networking - Neighbor Discovery A	Core Networking	All	Yes	Allow		1
	Ore Networking - Neighbor Discovery S	Core Networking	All	Yes	Allow		1
	Ore Networking - Packet Too Big (ICMP	Core Networking	All	Yes	Allow		1
	Ore Networking - Parameter Problem (I	Core Networking	All	Yes	Allow		1
	Ore Networking - Router Advertisement	Core Networking	All	Yes	Allow		1
	Ore Networking - Router Solicitation (IC	Core Networking	All	Yes	Allow	\sim	1
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STEP 6 - Configuring WMI User Access for Windows Server

Right-click on the Windows symbol then click on the run option. The run window will pop-up then type **wmimgmt.msc**.

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	Run	×							
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.			-				12 52	
Open:	Winingmt.msc				VVINC	iows Se	rver 20	12 R2	
	OK Cancel Browse]			Wi	ndows Serve Wir	er 2012 R2 ndows Licer	Standard nse valid f	Evaluation or 94 days Build 9600
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Right-click on WMI Control(Local) then the Properties option.



On the WMI Control (Local) Properties select the Security tab, click on the CIMV2 folder then click the Security button.



Select the User that will give access to (Administrator) then Execute Methods, Provider Write, Enable Account, and Remote Enable to Allow.

5	-						wmimgmt - [Console Root\WMI Control (Local)]		x
- 2	ᡖ File	Action	View	Favorites	Window	Help		_ <i>E</i>	r ×
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	Con:	sole Root					Act	ions	
	i ∎i V	VMI Contr	ol (Loca	al)	(j)	Windo	vs Management Instrumentation (WMI) WI	MI Control (Local)	•
					Configu	_	WMI Control (Local) Properties ? X	More Actions	•
					coningu	Ger	eral Backup/Restore Security Advanced		
						N	Security for ROOT\CIMV2		
							Security		
							Group or user names:		
							& Authenticated Users		
							& LOCAL SERVICE		
							Administrators (WIN-MMKMP1PLMLIV-Administrators)		
							Add Remove		
							Permissions for Administrator Allow Denv		
							Execute Methods		
							Full Write		
						4	Partial Write		
							Provider Write		
7									
							For special permissions or advanced settings, Advanced		
							OK Cancel Apply		
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NMIS9 WMI Basic Configuration

Microsoft Release about Windows DCOM issues