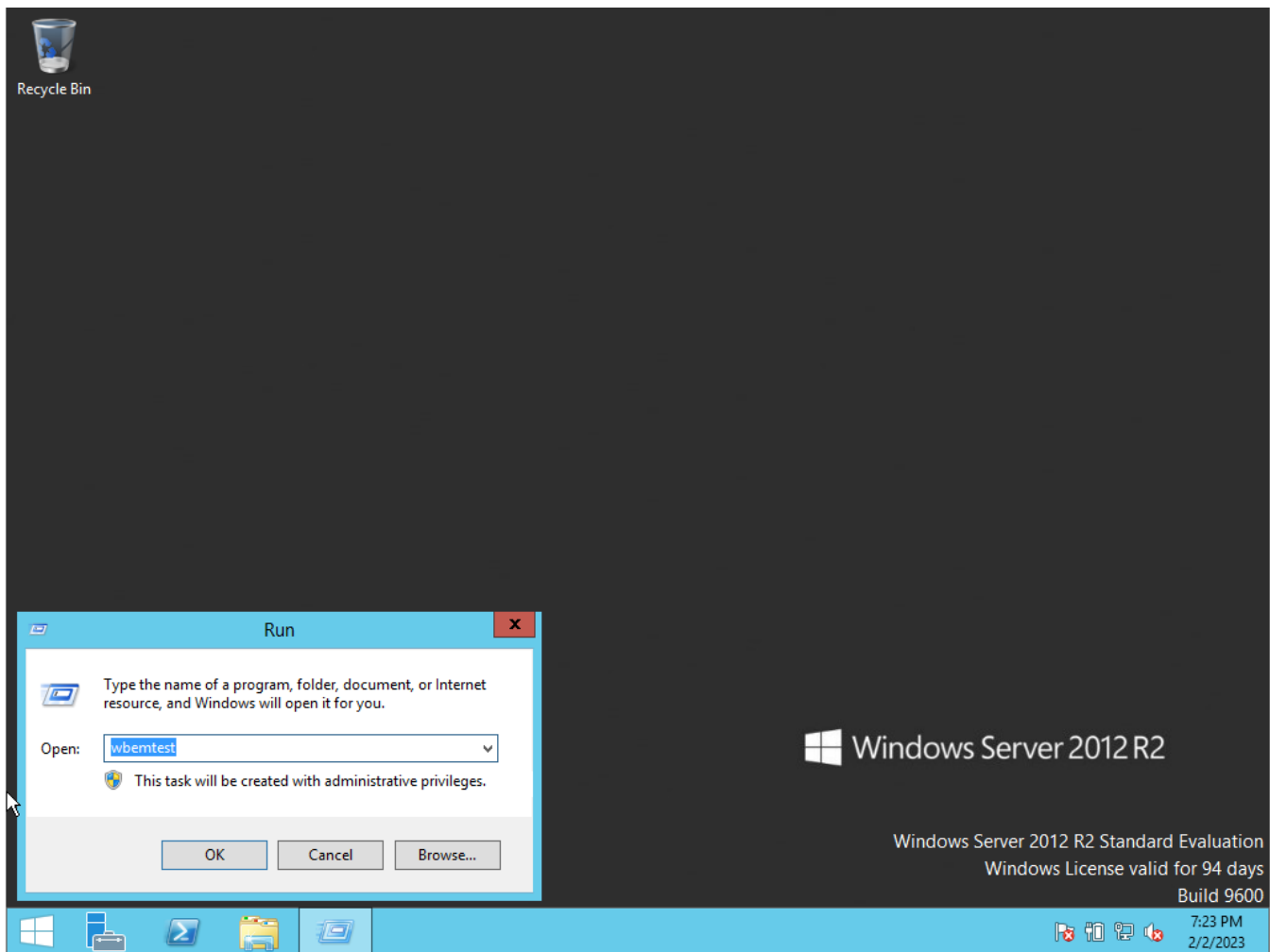


How to test WMI using the wbemtest

Introduction

On the Server

How to test WMI communication on the Windows Server using the wbemtest application.





Recycle Bin

Windows Management Instrumentation Tester

Namespace: Connect...
Exit

WbemServices

Enum Classes...	Enum Instances...	Open Namespace...	Edit Context...
Create Class...	Create Instance...	Query...	Create Refresher...
Open Class...	Open Instance...	Notification Query...	
Delete Class...	Delete Instance...	Execute Method...	

Method Invocation Options

☐ Asynchronous
☐ Synchronous
☒ Semisynchronous

☐ Use NextAsync (enum. only)

☐ Enable All Privileges
☐ Use Amended Qualifiers
☐ Direct Access on Read Operations

Batch Count (enum. only) Timeout (msec., -1 for infinite)

Windows Server 2012 R2

Windows Server 2012 R2 Standard Evaluation
Windows License valid for 94 days
Build 9600



7:24 PM
2/2/2023



Recycle Bin

Connect

Namespace: Connect Cancel

Connection:

Using:

Returning: Completion:

Credentials:

User:

Password:

Authority:

Locale:

How to interpret empty password:

☒ NULL ☐ Blank

Impersonation level:

☐ Identify

☒ Impersonate

☐ Delegate

Authentication level:

☐ None ☒ Packet

☐ Connection ☐ Packet integrity

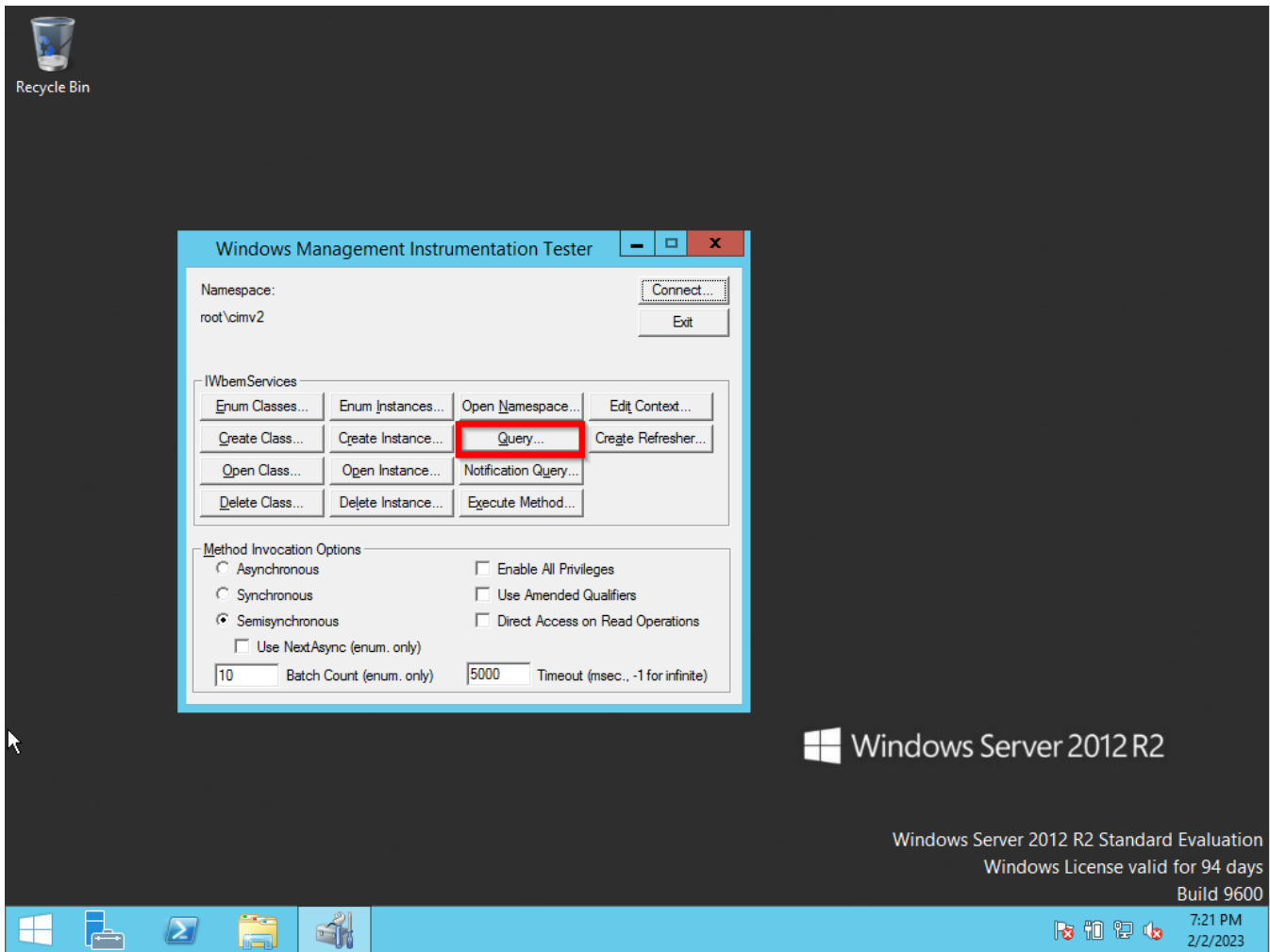
☐ Call ☐ Packet privacy

Windows Server 2012 R2

Windows Server 2012 R2 Standard Evaluation
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Build 9600



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select * from win32_process



Recycle Bin

Windows Management Instrumentation Tester

Namespace: root\cimv2

Connect... Exit

Query

Enter Query

select * from win32_process

Query Type: WQL

Retrieve class prototype: ☐

Apply Cancel

☐ Synchronous ☐ Use Amended Qualifiers

☒ Semisynchronous ☐ Direct Access on Read Operations

☐ Use NextAsync (enum. only)

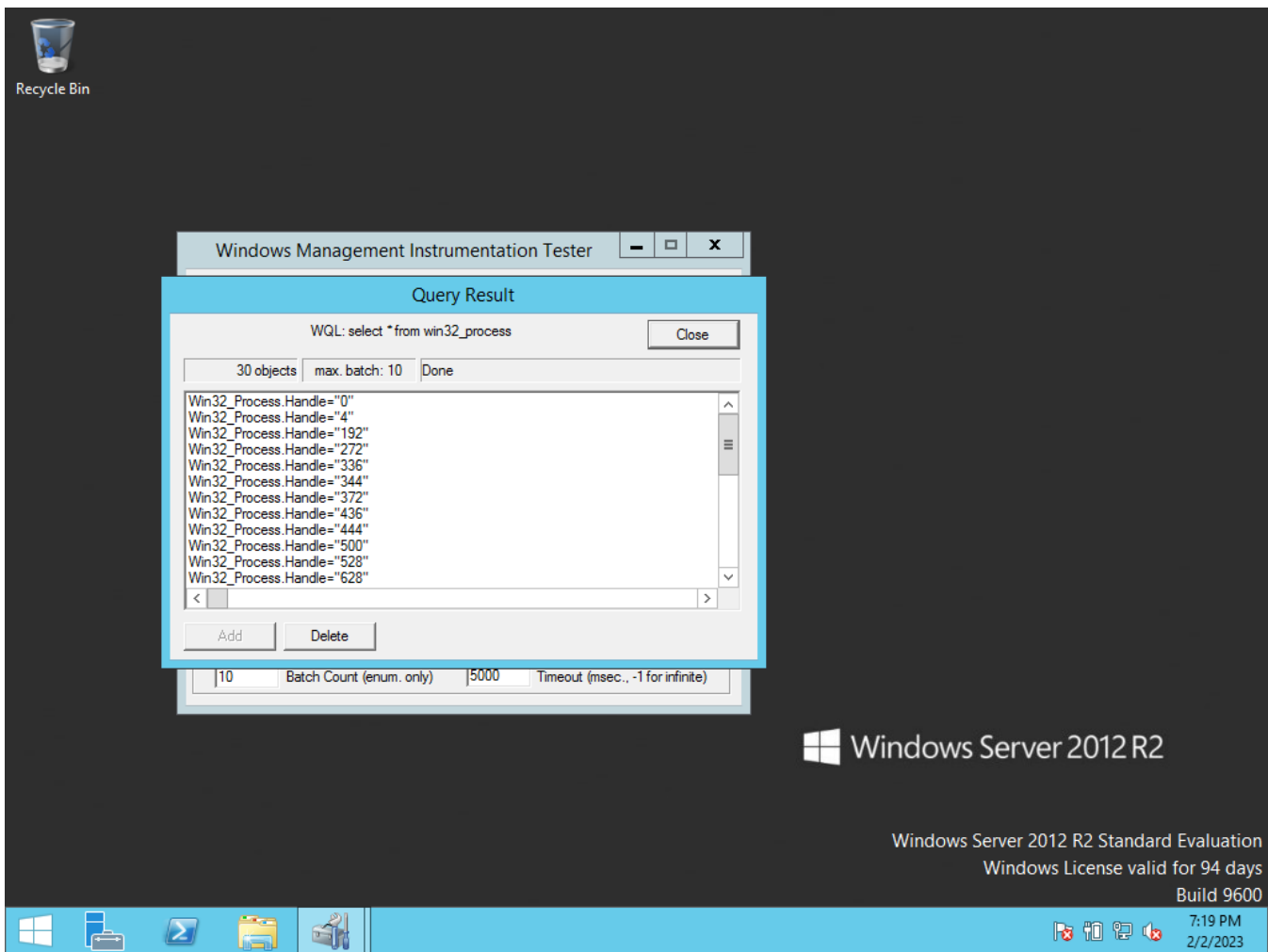
Batch Count (enum. only): 10 Timeout (msec., -1 for infinite): 5000

Windows Server 2012 R2

Windows Server 2012 R2 Standard Evaluation
Windows License valid for 94 days
Build 9600



7:23 PM
2/2/2023



On a Remote Site

How to test WMI communication on the Windows Server from a remote site.

I used the computer name: WIN-MMKMP1PLMLI, but I could use the IP Address from the WMI Windows Server.

IMPORTANT: If you have the Firewall Outbound policy then the remote site can query the Windows Server (see firewall outbound [How to Configure WMI on the Windows Server](#)).

Connect

Namespace

\\WIN-MMKMP1PLMLI\root\cimv2

Connect

Cancel

Connection:

Using: IWbemLocator (Namespaces)

Returning: IWbemServices

Completion: Synchronous

Credentials

User: workgroup\Administrator

Password: [REDACTED]

Authority:

Locale

How to interpret empty password

☒ NULL

☐ Blank

Impersonation level

☐ Identify

☒ Impersonate

☐ Delegate

Authentication level

☐ None

☒ Packet

☐ Connection

☐ Packet integrity

☐ Call

☐ Packet privacy

Windows Management Instrumentation Tester

Namespace:

\\WIN-MMKMP1PLMLI\root\cimv2

Connect...

Exit

IWbemServices

Enum Classes...

Enum Instances...

Open Namespace...

Edit Context...

Create Class...

Create Instance...

Query...

Create Refresher...

Open Class...

Open Instance...

Notification Query...

Delete Class...

Delete Instance...

Execute Method...

Method Invocation Options

☐ Asynchronous

☐ Synchronous

☒ Semisynchronous

☐ Use NextAsync (enum. only)

☐ Enable All Privileges

☐ Use Amended Qualifiers

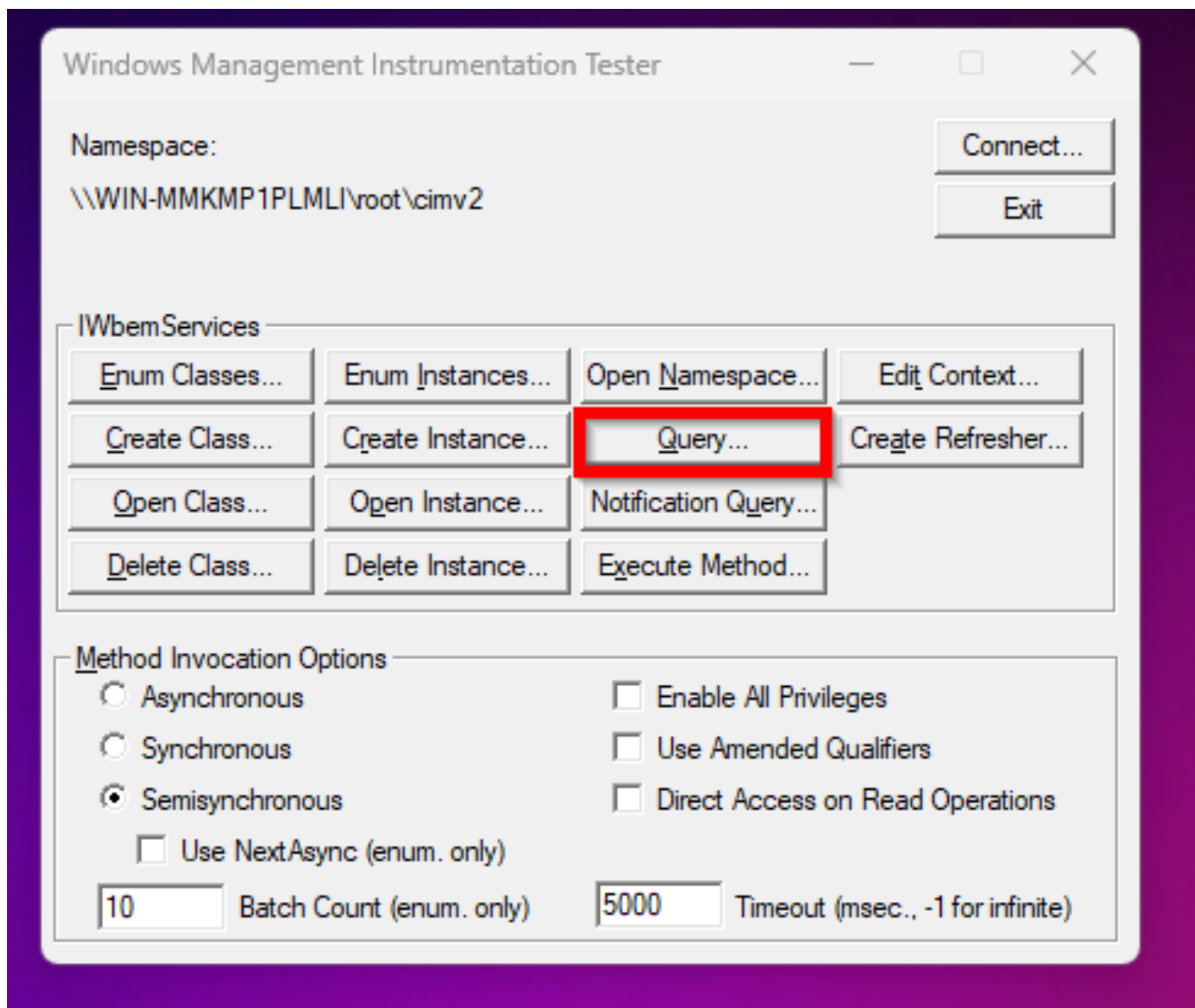
☐ Direct Access on Read Operations

10

Batch Count (enum. only)

5000

Timeout (msec., -1 for infinite)



select * from win32_ComputerSystem

Windows Management Instrumentation Tester

Namespace:

\\WIN-MMKMP1PLMLI\root\cimv2

Connect...

Exit

Query

Enter Query

select * from win32_ComputerSystem

Query Type

WQL

☐ Retrieve class prototype

Apply

Cancel

☐ Synchronous

☒ Semisynchronous

☐ Use NextAsync (enum. only)

☐ Use Amended Qualifiers

☐ Direct Access on Read Operations

10

Batch Count (enum. only)

5000

Timeout (msec., -1 for infinite)

Windows Management Instrumentation Tester

Query Result

WQL: select * from win32_ComputerSystem

Close

1 objects

max. batch: 1

Done

Win32_ComputerSystem.Name="WIN-MMKMP1PLMLI"

Add

Delete

10

Batch Count (enum. only)

5000

Timeout (msec., -1 for infinite)