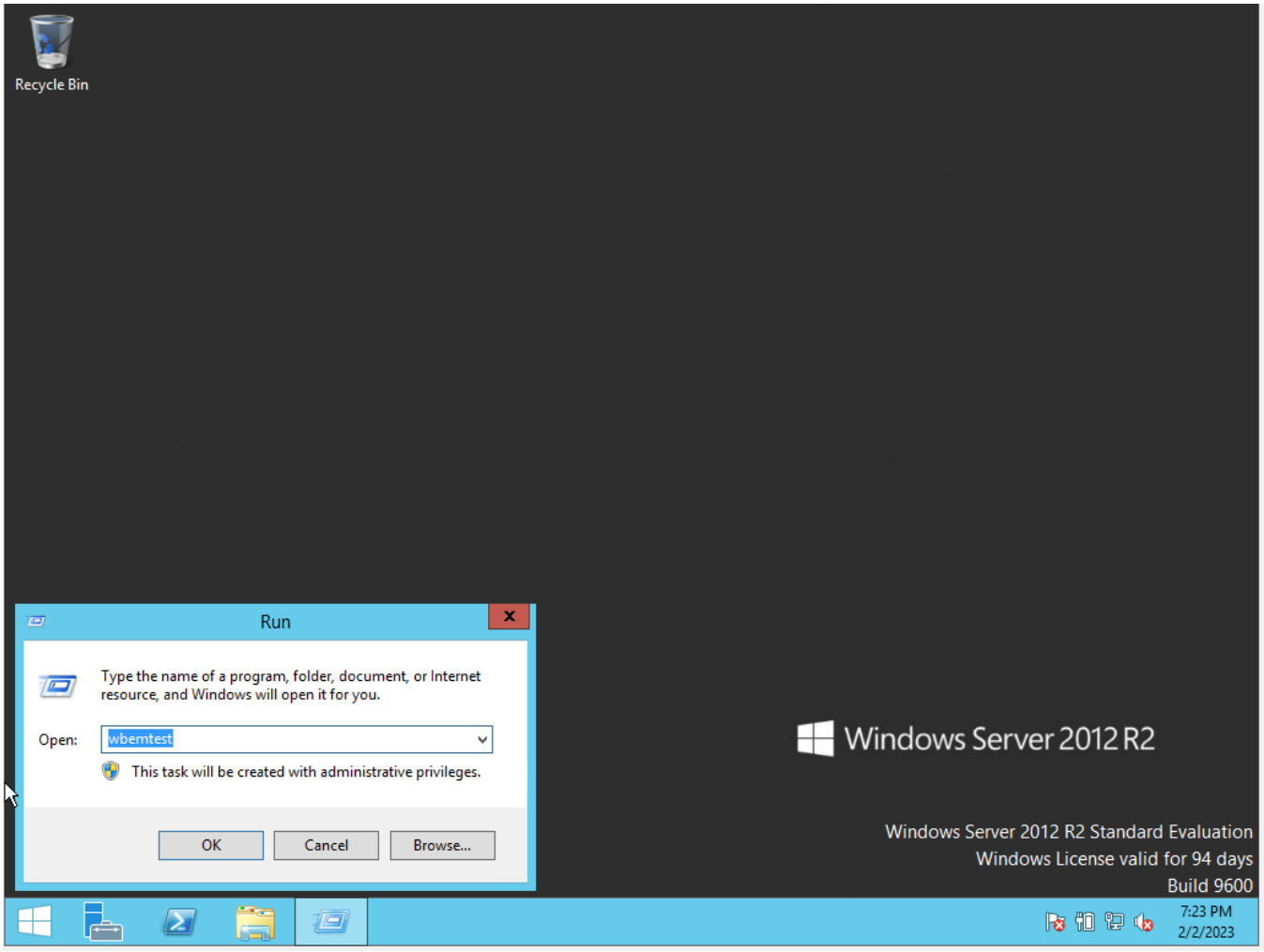
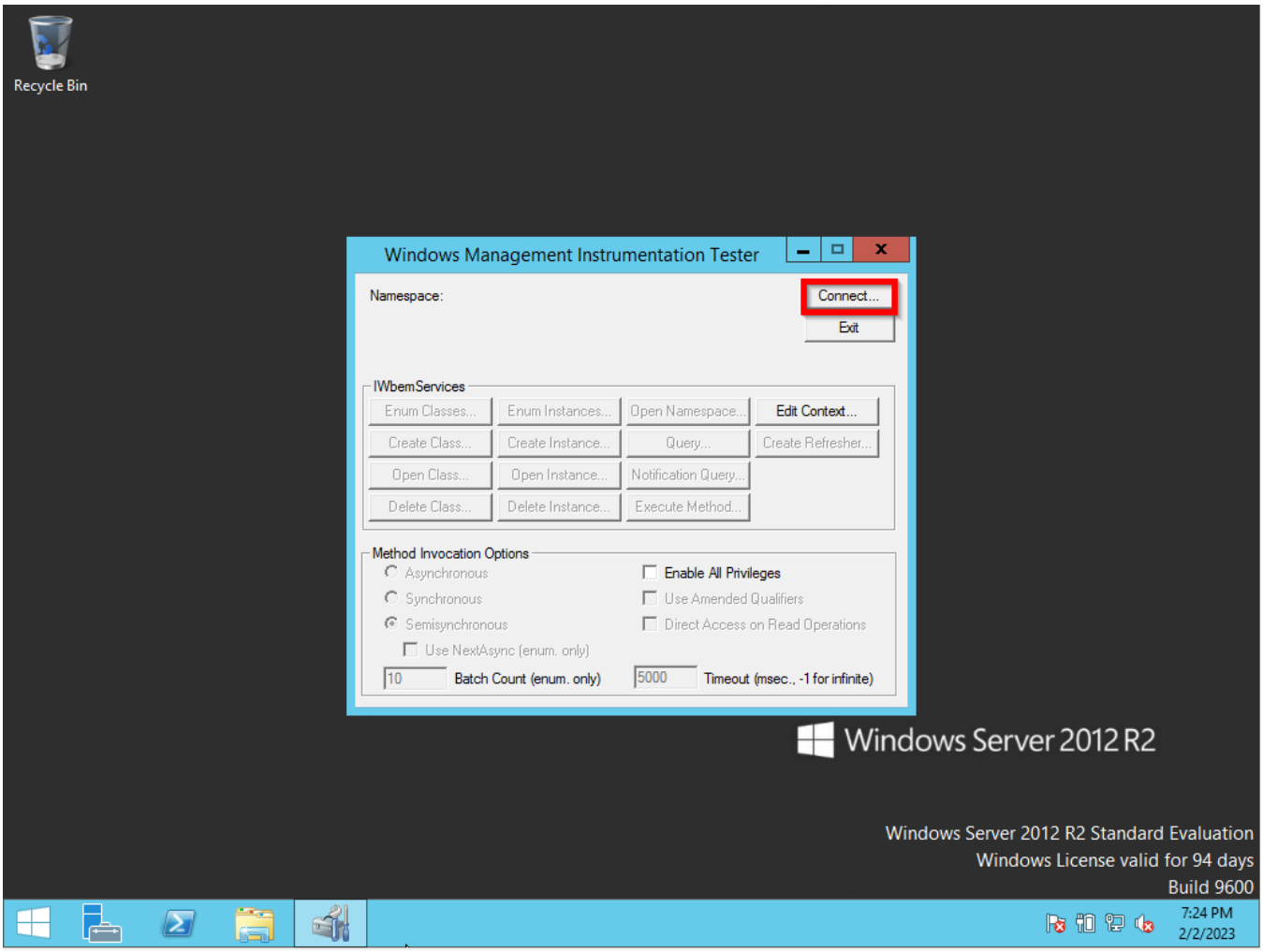
How to test WMI using the wbemtest

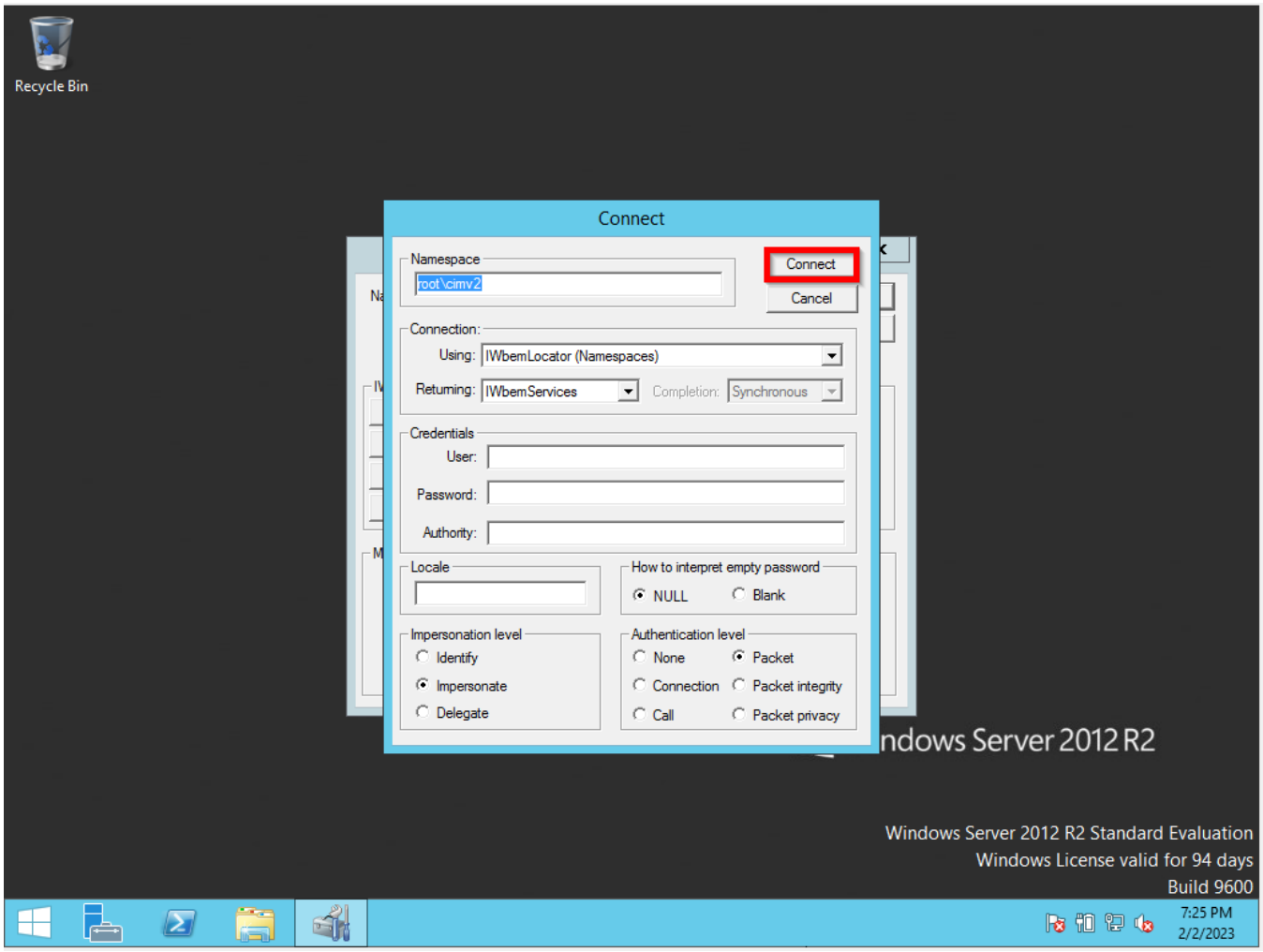
Introduction

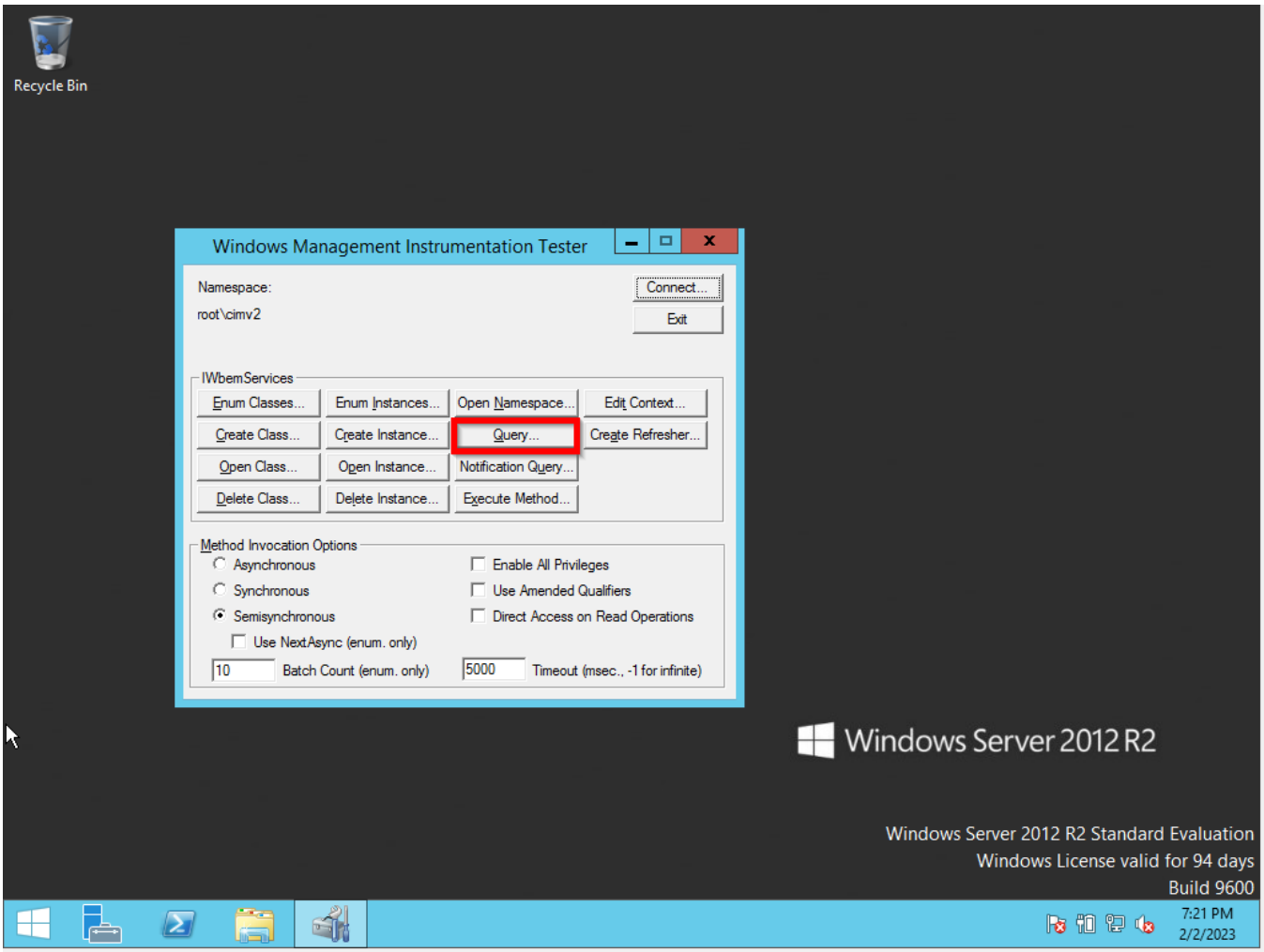
On the Server

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

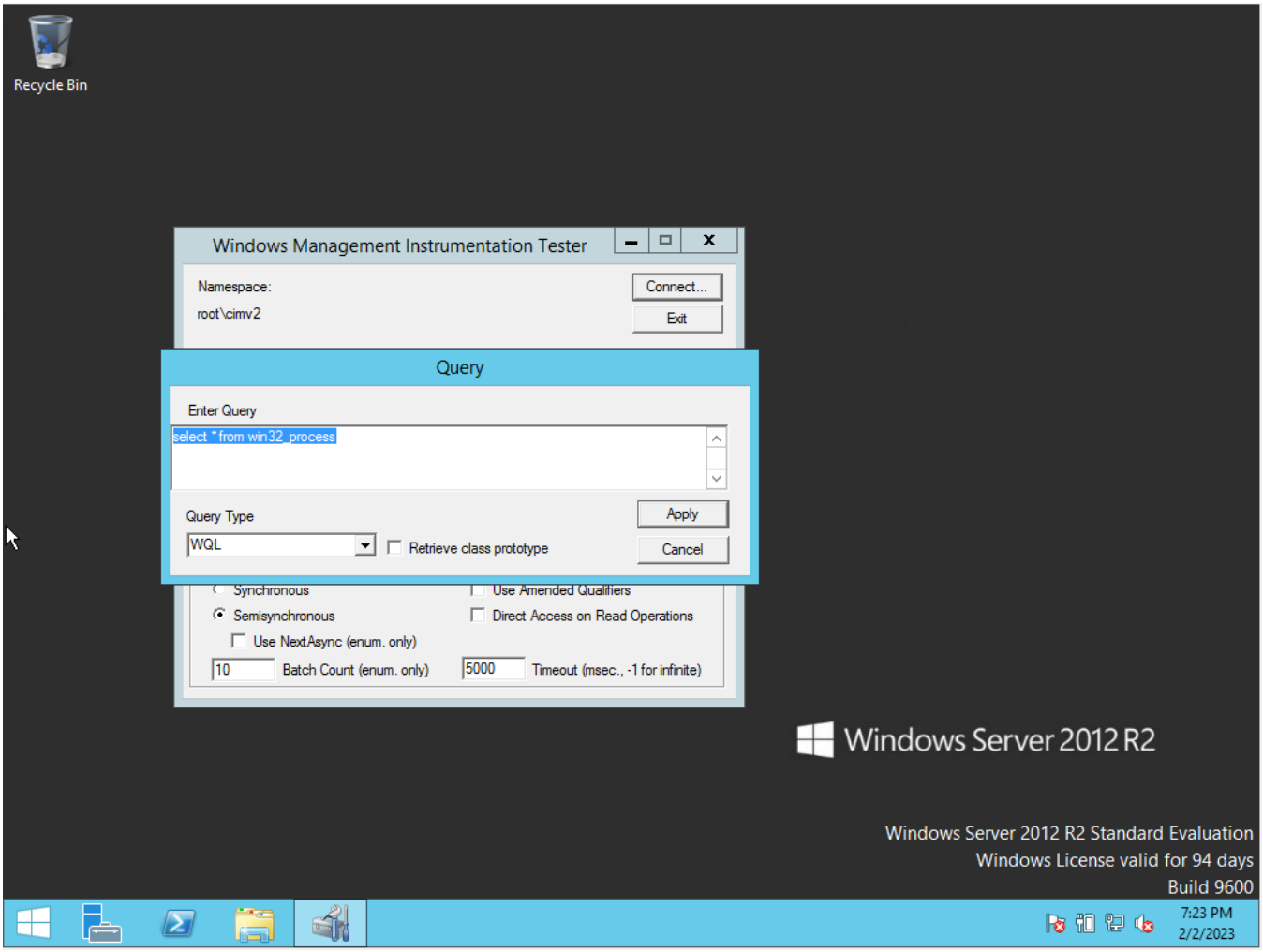


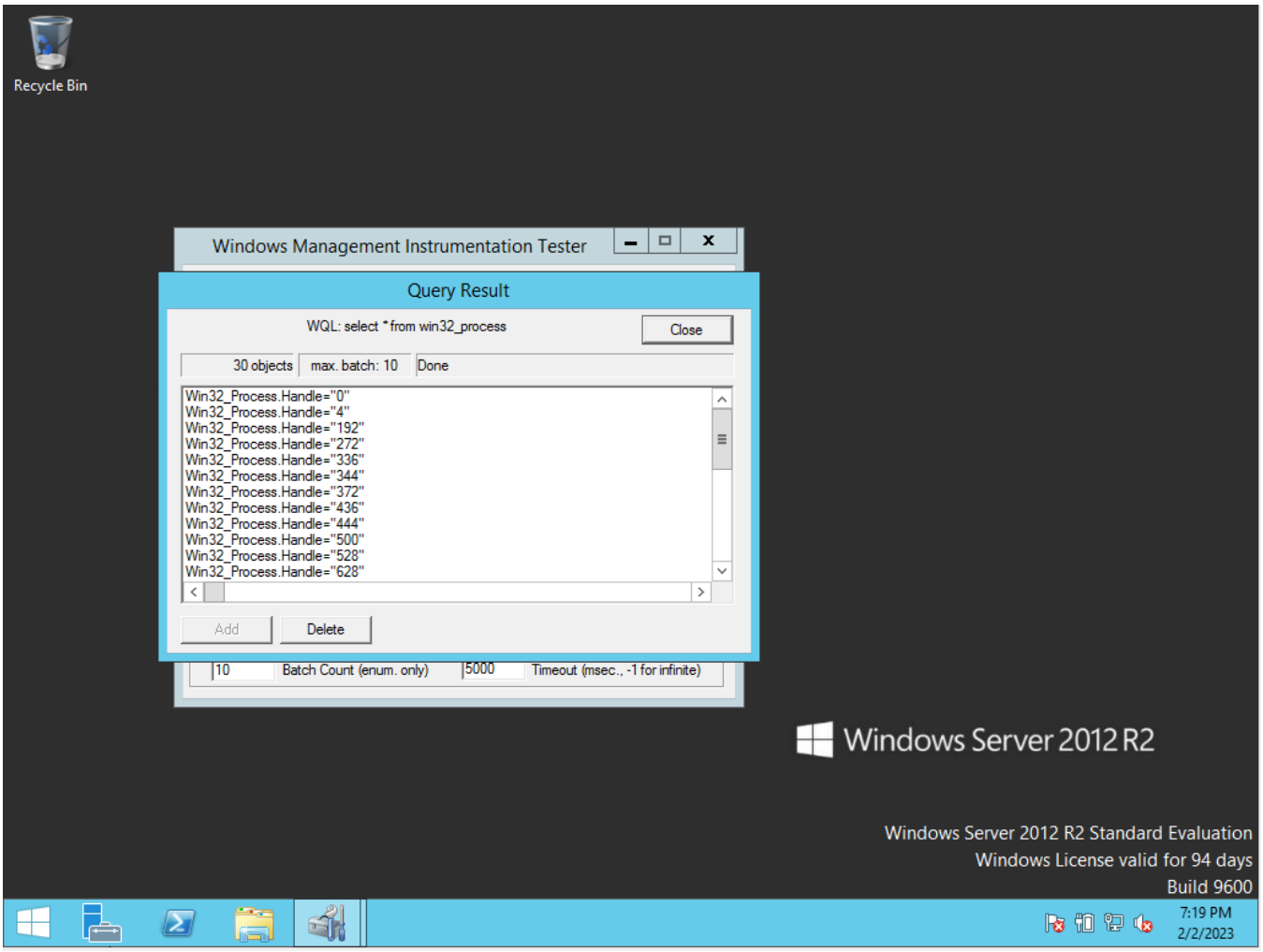

Recycle Bin
Windows Management Instrumentation Tester
Namespace:
Connect...
Exit
IWbemServices
Enum Classes...
Enum Instances...
Open Namespace...
Edit Context...
Create Class...
Create Instance...
Query...
Create Refresher...
Open Class...
Open Instance...
Notification Query...
Delete Class...
Delete 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)
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
root\cimv2
Connect
Cancel
Connection:
Using: IWbemLocator (Namespaces)
Returning: IWbemServices
Completion: Synchronous
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
ndows Server 2012 R2
Windows Server 2012 R2 Standard Evaluation
Windows License valid for 94 days
Build 9600
7:25 PM
2/2/2023



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
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 Server 2012 R2
Windows Server 2012 R2 Standard Evaluation
Windows License valid for 94 days
Build 9600
7:23 PM
2/2/2023

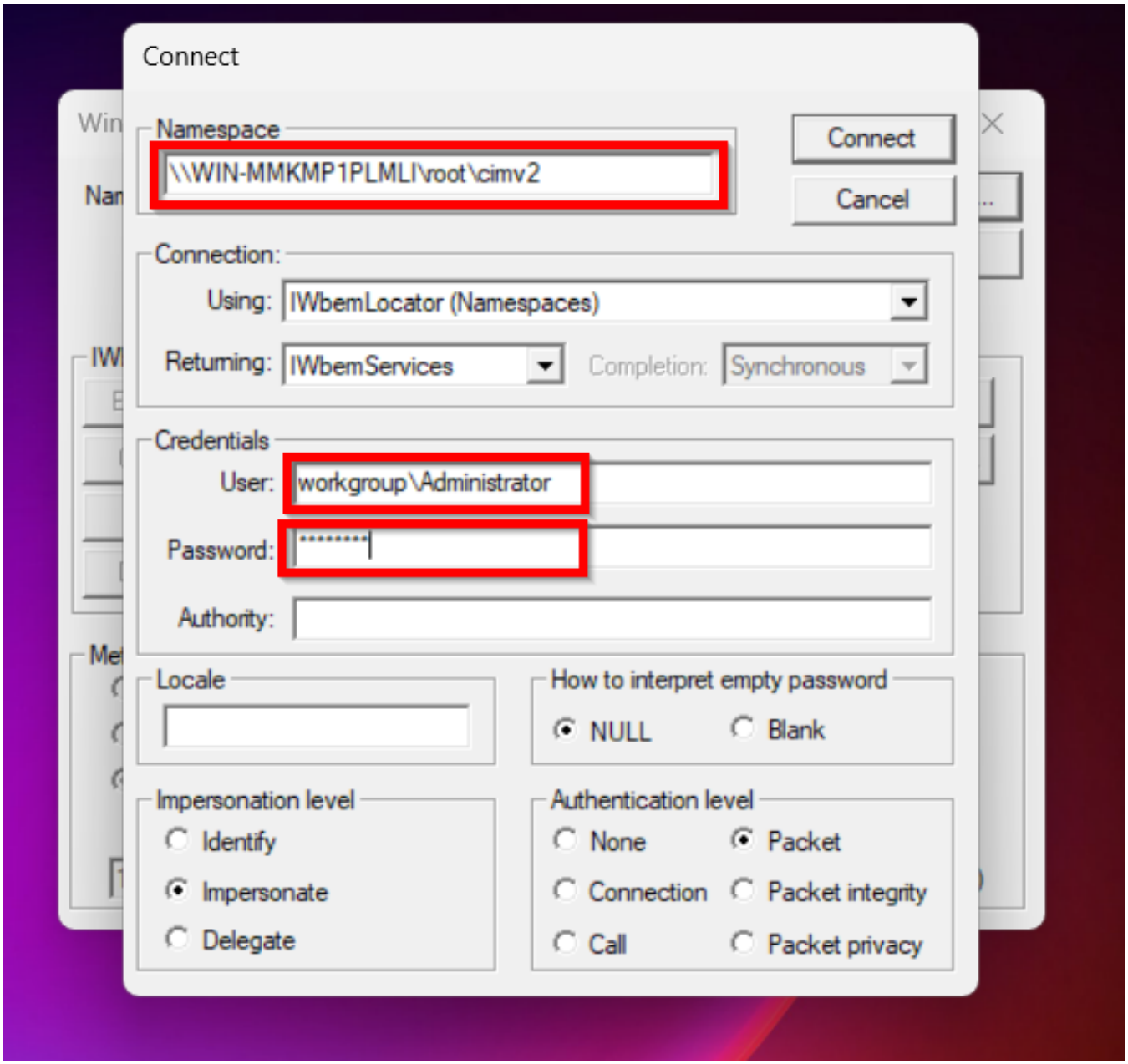


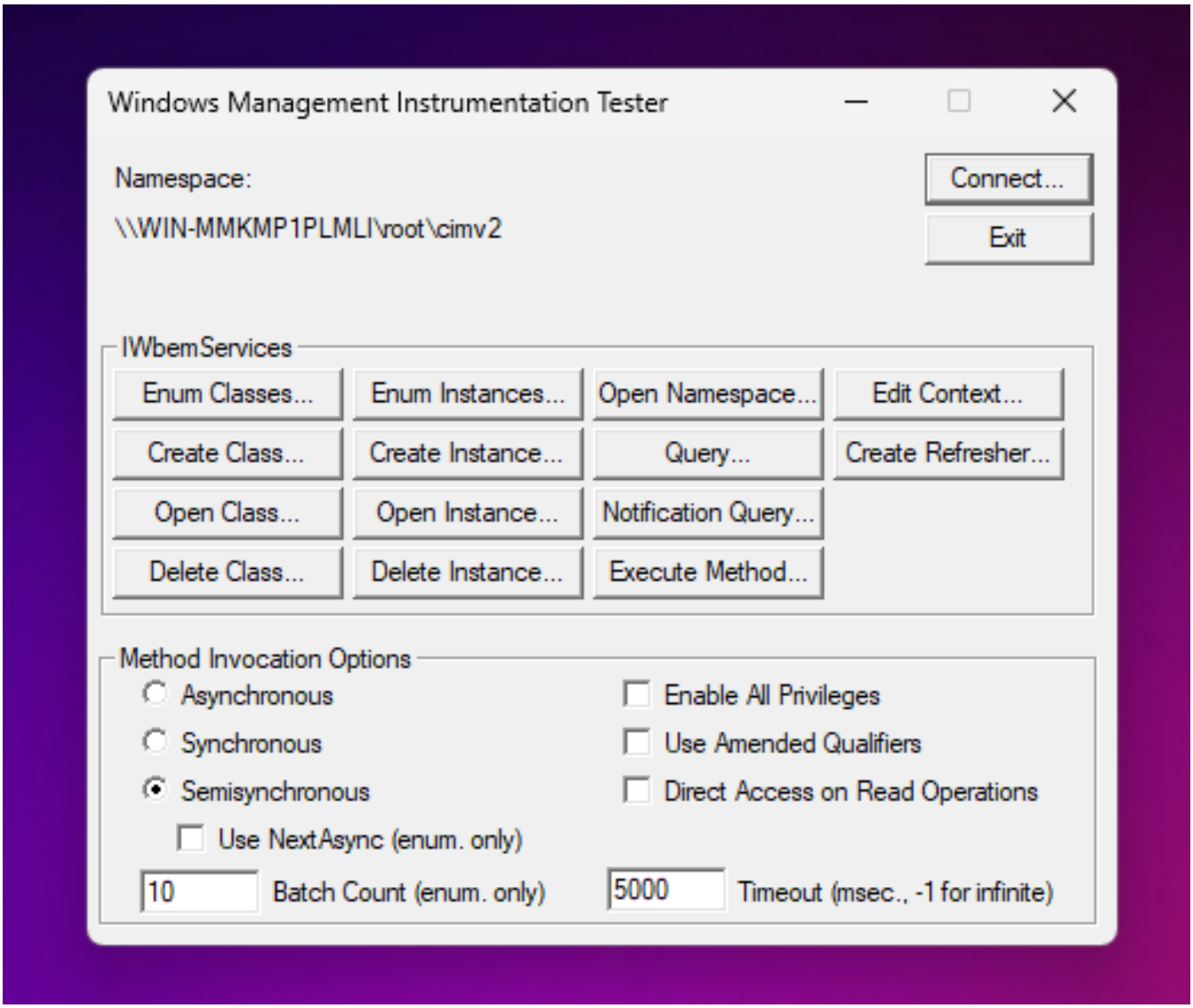
On a Remote Site

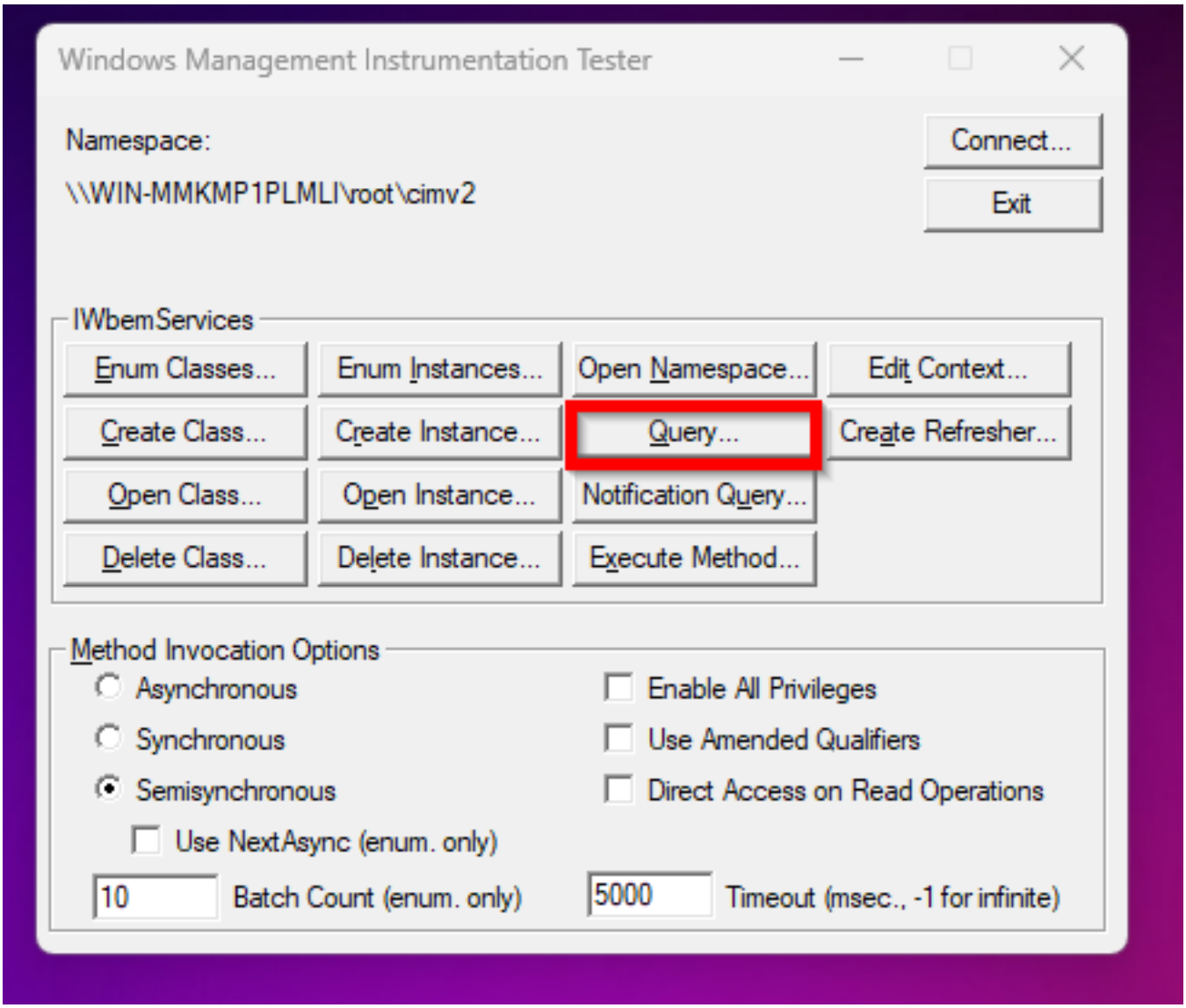
How to test WMI communication on the Windows Server from a remote site.

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

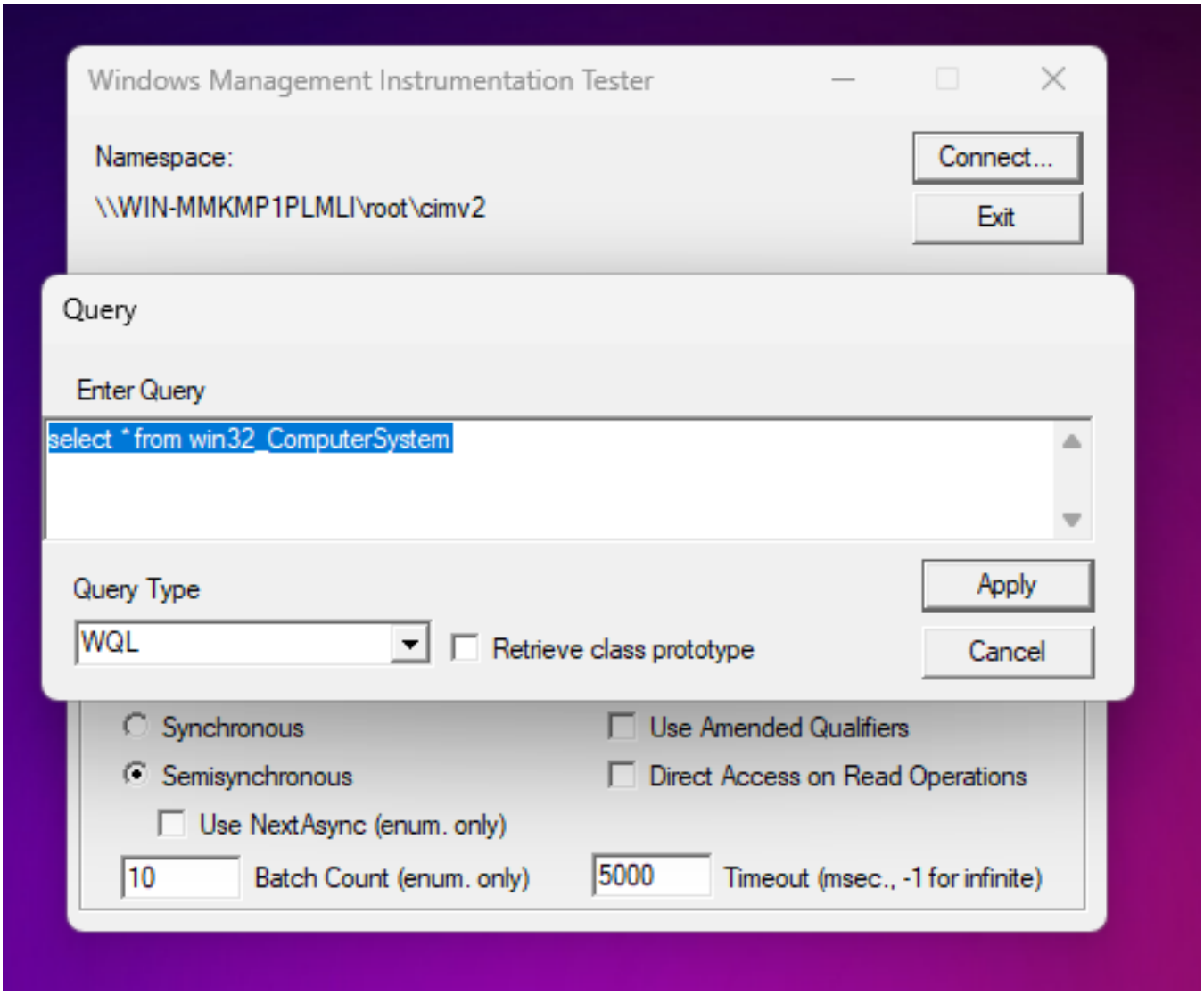
IMPORTANT: If you have the Firewall Outbound policy then the remote site can query the Windows Server (see firewall outbound **How to Configure WMI on the Windows Server**).

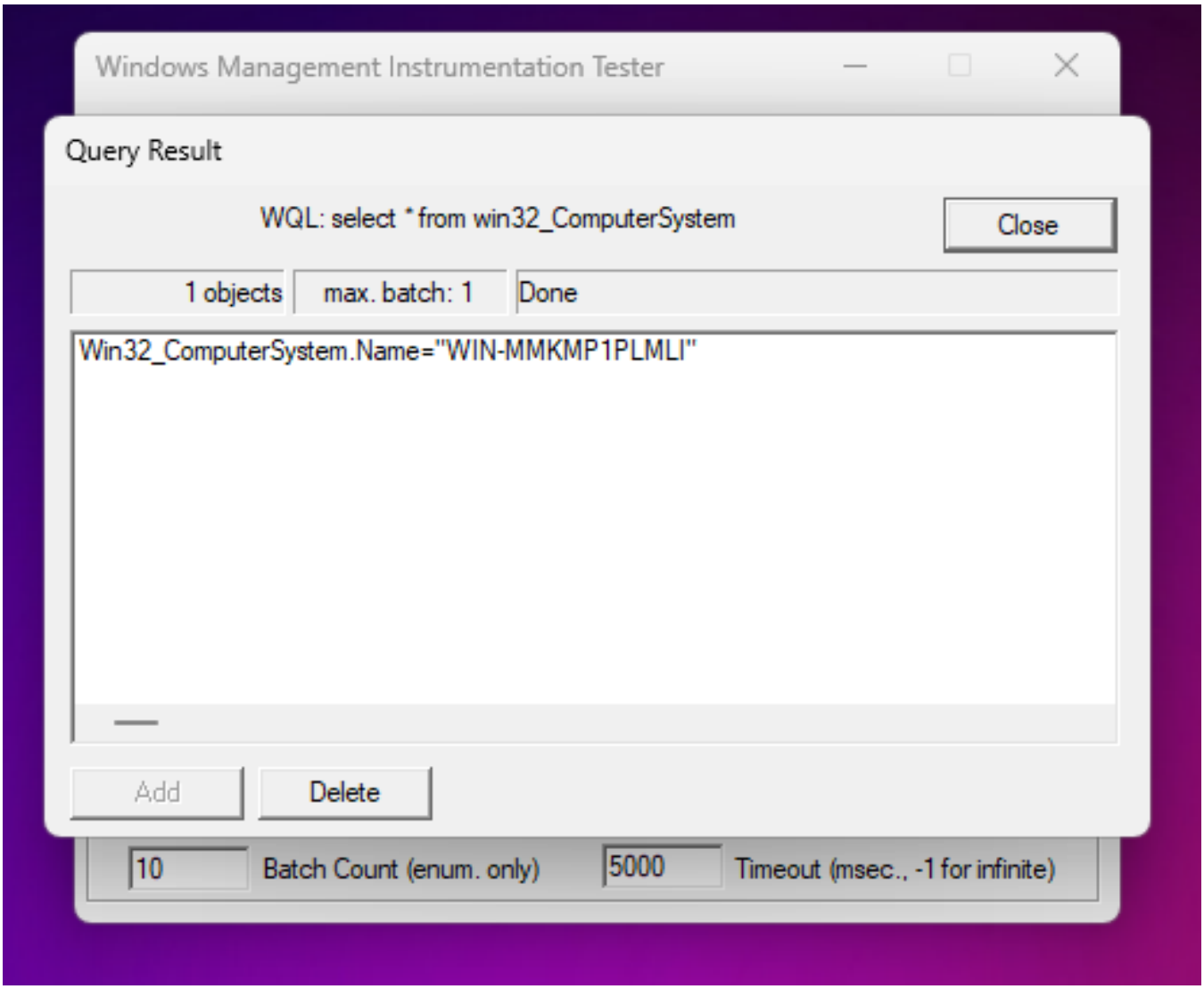

Connect
Namespace
\\WIN-MMKMP1PLMLI\root\cimv2
Connect
Cancel
Connection:
Using: IWbemLocator (Namespaces)
Returning: IWbemServices
Completion: Synchronous
Credentials
User: workgroup\Administrator
Password: ********
Authority:
Locale
How to interpret empty password
NULL
Blank
Impersonation level
Identify
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)
10
Batch Count (enum. only)
Use Amended Qualifiers
Direct Access on Read Operations
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)