Lab 3: SNMP in Windows

NET311 – Computer Networks Management

Instructor: Dr. Mostafa Dahshan

Objectives

1. Install and configure SNMP service in Windows Server.
2. Use a MIB browser software to interact with Windows SNMP agent.

References

1. How to Install SNMP and Configure the Community String, Managed.com.
2. SnmpB download, SourceForge.net.

Instructions

1. Read the lab instructions.
2. Provide question answers and screenshots in the supplied answer sheet.
3. After finishing the lab, upload your saved answer sheet to LMS.

Part 1: Install and Configure SNMP Service in Windows Server

1. Log in to Windows Server.

2. Click on **Windows Key > Administrative Tools > Server Manager**.

3. Click **Manage > Add Roles and Features**.

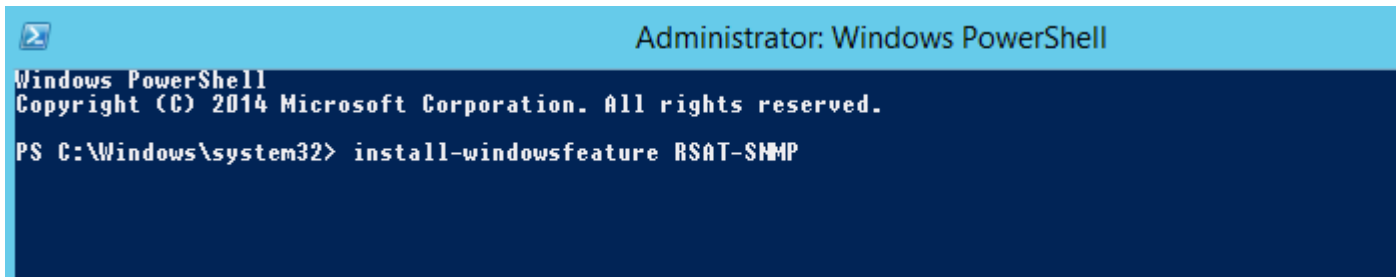4. Click **Next > Next > Next > Next**. Follow steps to install SNMP Service.
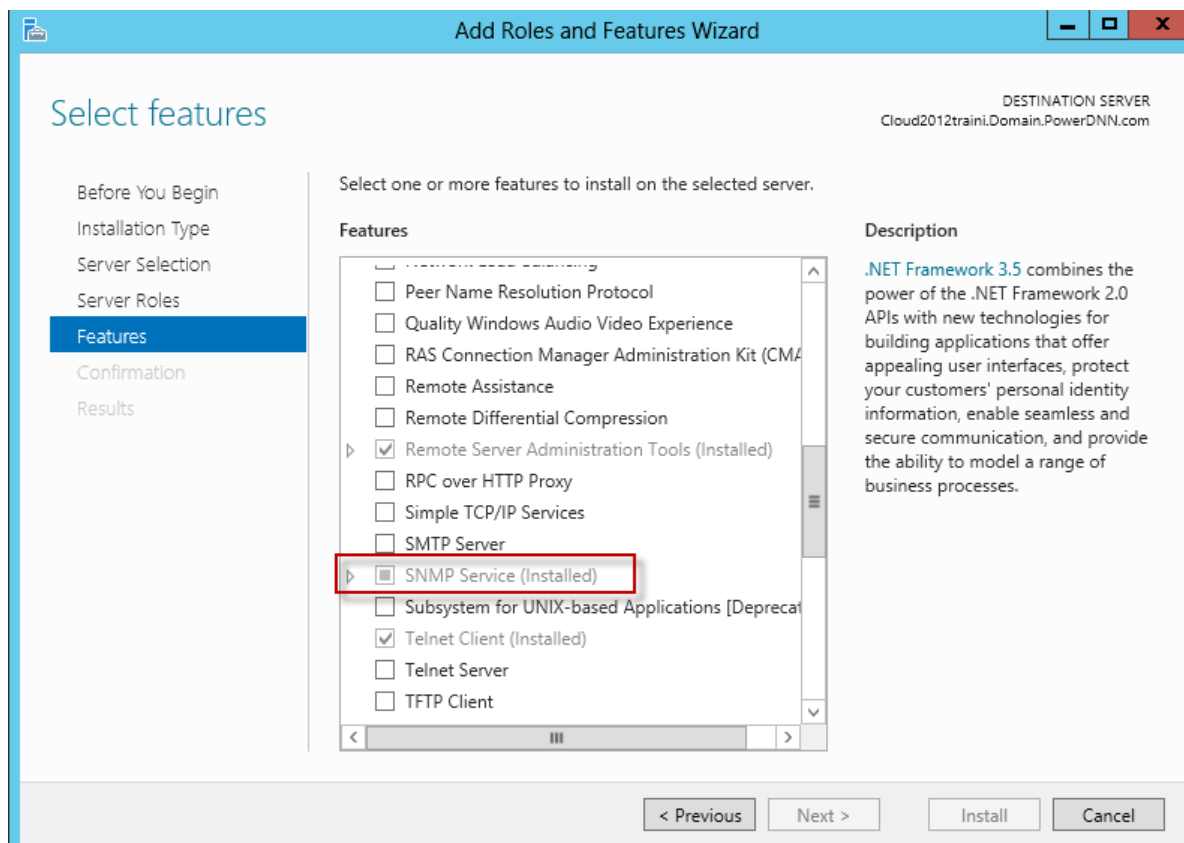
Lab sheet 1.1: provide a screenshot of the Add Roles and Features screen.

5. Run **PowerShell** as **Administrator**.
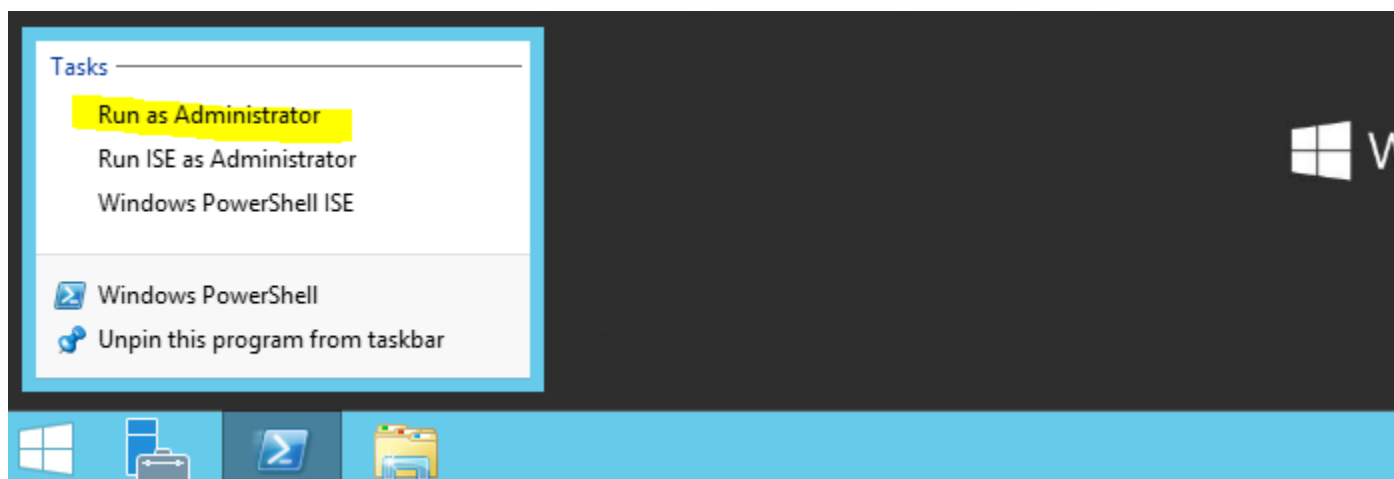
6. Run the following command:
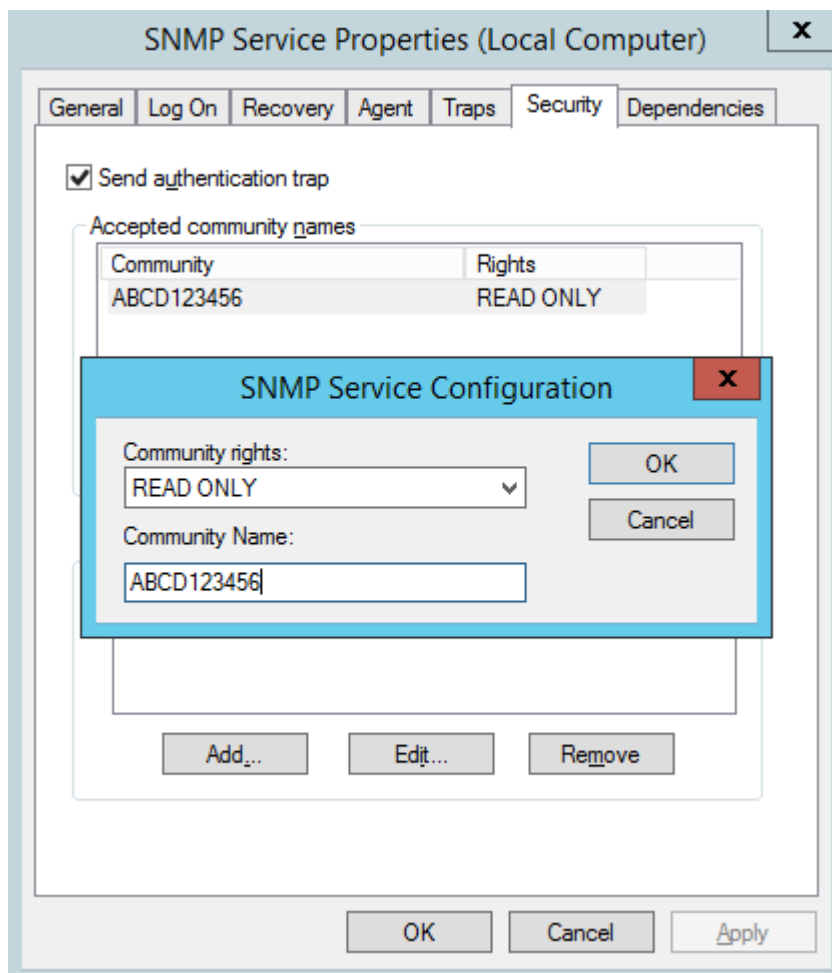
```
install-windowsfeature RSAT-SNMP
```


7. Click on **Windows Key > Administrative Tools > Services**.

8. Right click on **SNMP Service** and click on **Properties**.

9. Click on the **Security** tab.

10. Type your Community Name. Make sure it is **READ ONLY**.

Lab sheet 1.2: type the value of the Community Name.

Lab sheet 1.3: provide a screenshot of your Security configuration screen.

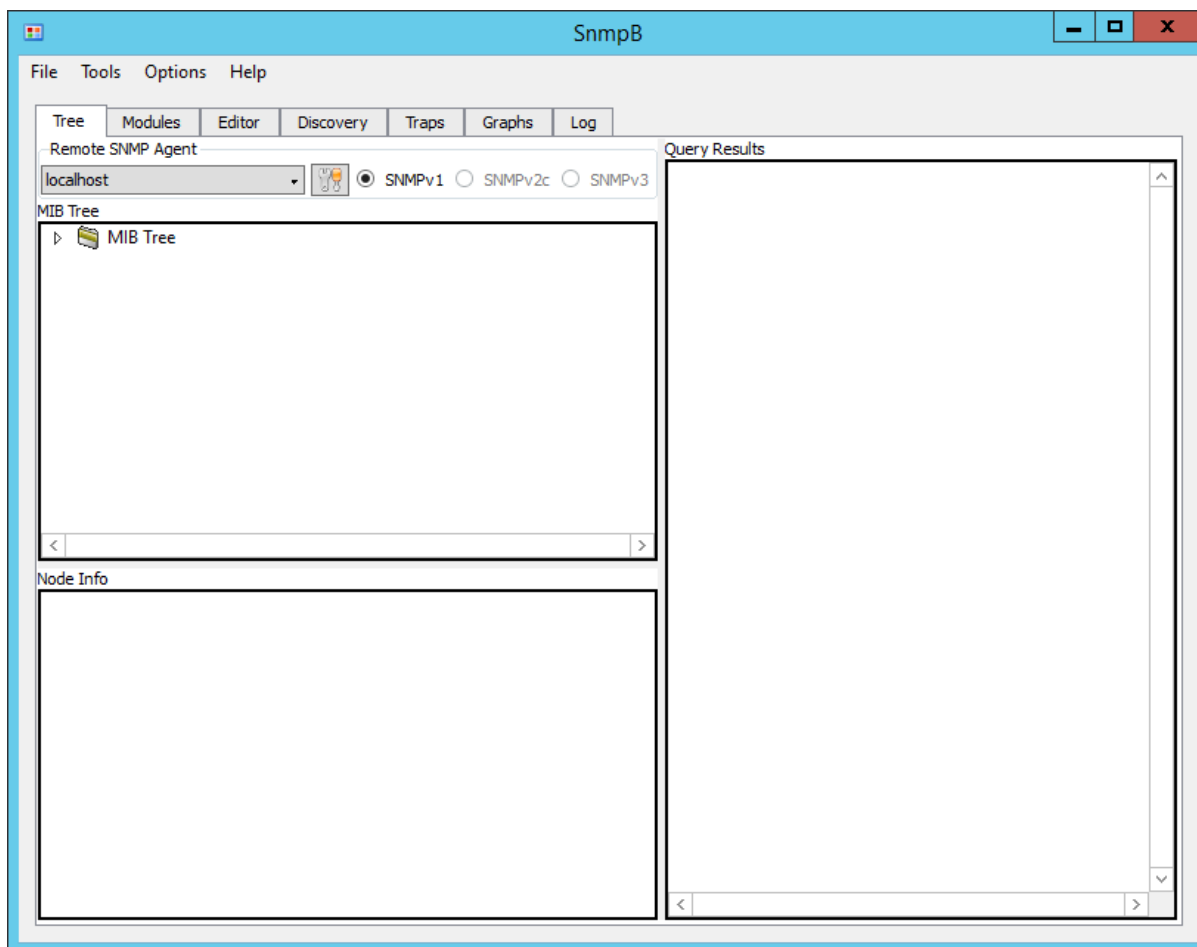11. Click on the Agent tab and enter your **Contact** and **Location** information.

Lab sheet 1.4: type the contact information you entered.

Lab sheet 1.5: provide a screenshot of your Agent configuration screen.

Part 2: Use a MIB browser to interact with Windows SNMP agent

1. Install the SnmpB software from the **Downloads** folder.
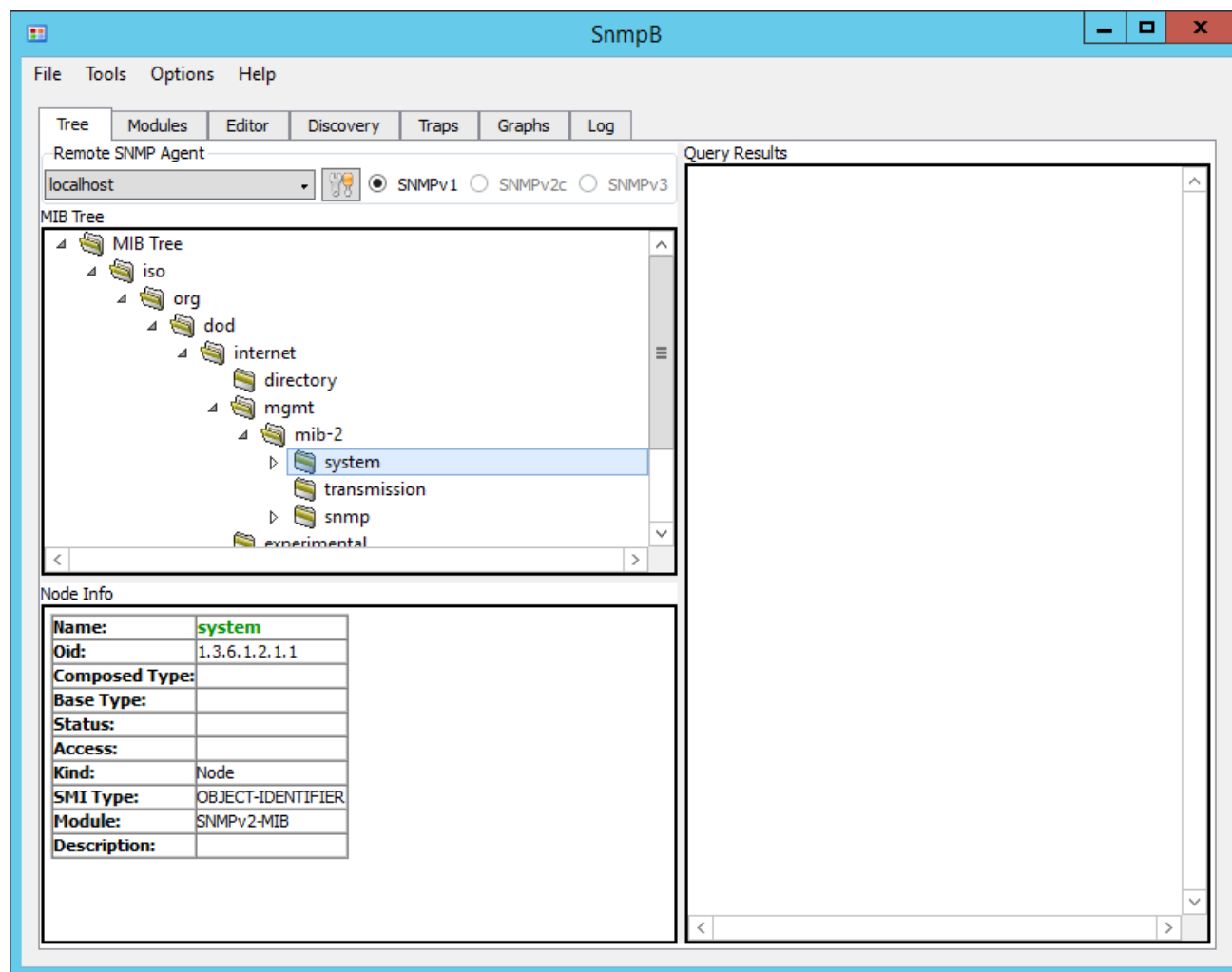
2. Run the SnmpB software.

3. Click Options > Manage Agent Profiles.

4. Expand the **localhost** profile.

5. Under Snmpv1/v2c, enter the Read Community value configured in Part 1.
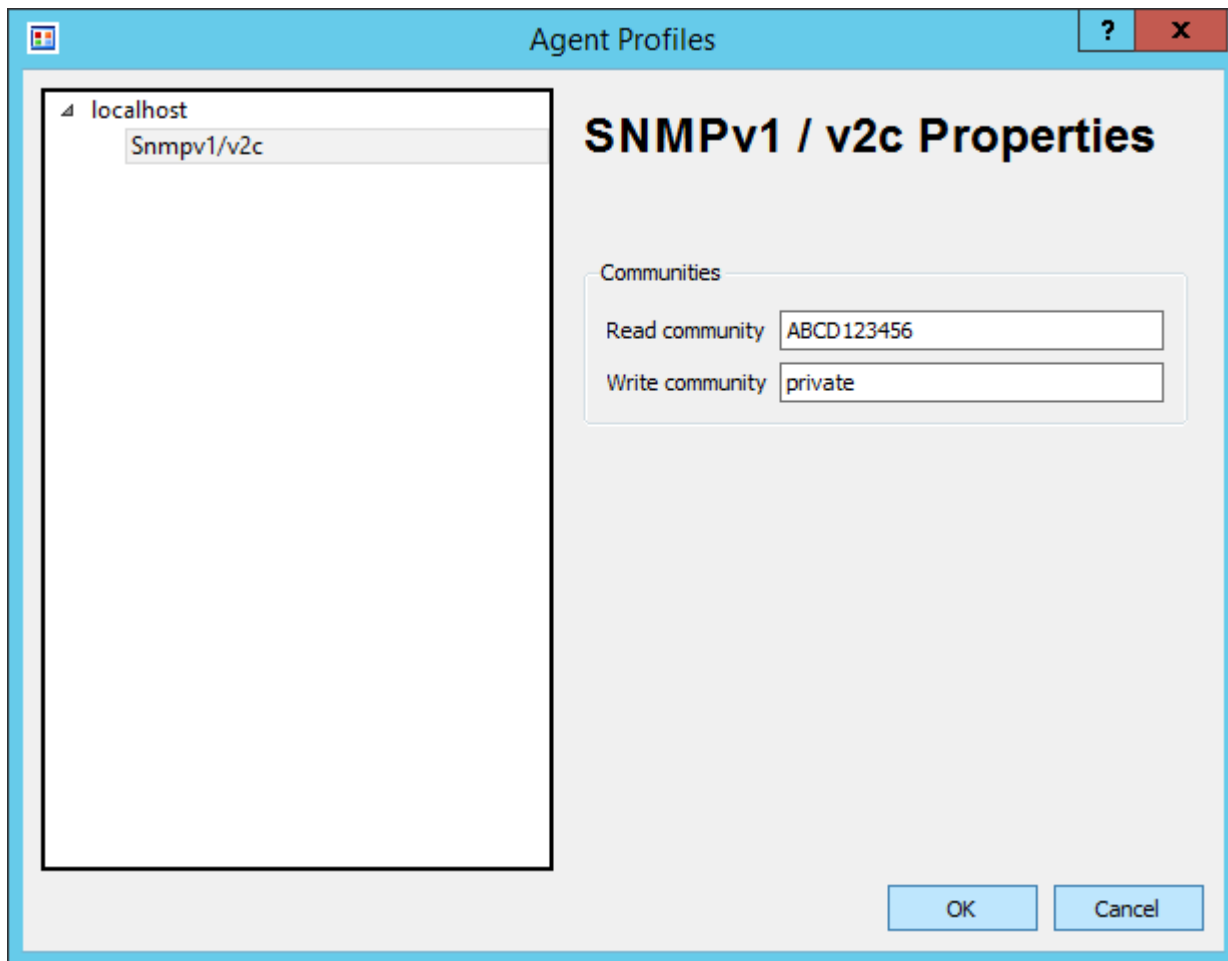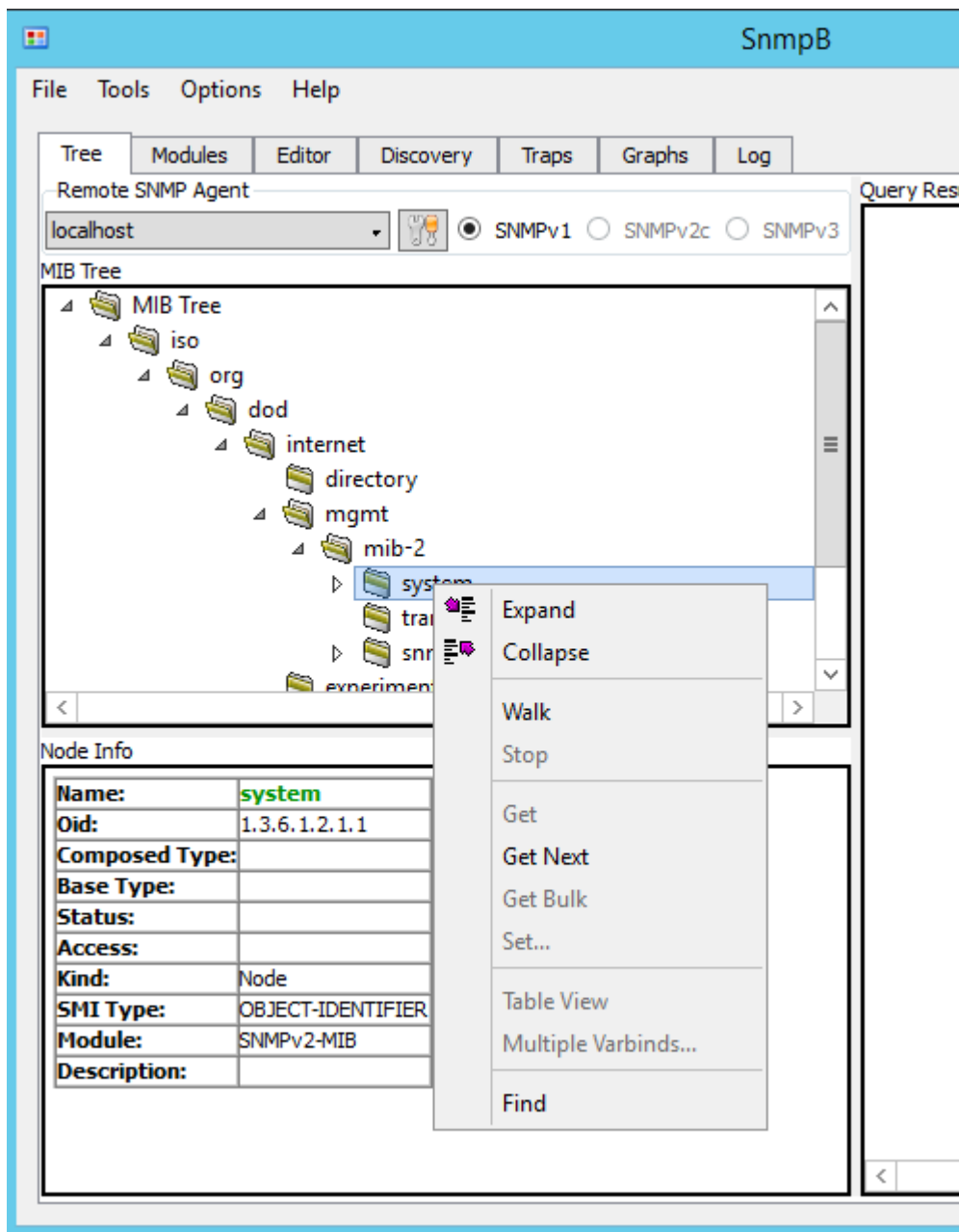

6. Click OK.

Lab sheet 2.1: provide a screenshot of the running SnmpB screen.

7. Expand the MIB Tree > iso > org > dod > internet > mgmt > mib-2 > system

Lab sheet 2.2: type the value of the OID you selected.

8. Right-click on **system**, then click on **Walk**.

Lab sheet 2.3: provide the Query Result contents (copy/paste).

Extra Tasks

Load more modules in SnmpB that can help finding more OIDs. For example, use IF-MIB to find the ifDescr.

Use alternative SNMP browser tool, such as snmputilg.