**Lab 4**

**Use the network management systems (OPNNMS) to monitor networks, devices and or applications**

[**http://demo.opennms.org/opennms/login.jsp;jsessionid=11cnyp8htqjze1v90vml4g3ai2**](http://demo.opennms.org/opennms/login.jsp;jsessionid=11cnyp8htqjze1v90vml4g3ai2)

**Using OpenNMS to manage the network , then answer the following:**

1- The address of the [Nodes with Outages](http://demo.opennms.org/opennms/outage/list.htm) for more than 2 months:

2- How much the availability of Web Servers ...........................%

3- How much interfaces are there in the network ......................

4- What are the interfaces of barbrady.internal.opennms.com node

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**5- Complete the information of current outage** [390084](http://demo.opennms.org/opennms/outage/detail.htm?id=223122)

|  |  |  |  |
| --- | --- | --- | --- |
| Node | Interface | Service | Lost Service Time |
| .................................................. | ............................... | ............. | ................. |

6- **Complete the information of Alarm 390043**

| **Node** | **Count** | **Last Event Time** | **Log Msg** |
| --- | --- | --- | --- |
| ................................ | **...** | **...** | **.......** |

|  |  |
| --- | --- |
| 7- The number of **acknowledged** notices = ...............  The ID of the first Minor Event = .................. |  |
|

8- From Dashboard, check resource graph of node Node:mrmakay.internal.opennms.com, response time for node172.20.1.1 for the SSH service then get the following:

Averageresponse time=……………………………………