**Stage 1**

**Objectives:**

* Prepare the environment for the project (VMWare Workstation)
* Import/Configure the four VMs for the project with the appropriate RAM, storage and NICs for the project
* Set the correct date and time an each VM
* Change the passwords for all root/administrator accounts
* Create non-root accounts on each machine (use your myseneca id)
* Create Guest Accounts on all Linux Machines (User: Guest Password:P@ssw0rd
* Install and Test Network Monitoring Software (Wireshark, TCPDUMP, NMAP) and ensure they run on each machine as a **NON-ROOT USER**

Use the following chart to assist in the configuration of your VMs.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Feature/Service** | **Linux Server** | **Windows Server** | **Linux Router** | **Client** |
| **OS** | CentOS Minimal | Server 2012 R2 | Centos Minimal | CentOS (GUI) |
| **RAM** | 1GB | 2GB | 1GB | 2GB |
| **Storage** | Minimum required by installer | Minimum required by installer | Minimum required by installer | Minimum required by installer |
| **NICs** | 1 LAN Segment | 1 LAN Segment | 1 NAT, 4 LAN Segment | 1 LAN Segment |
| **Network Monitoring Software** | TCPDUMP | Wireshark | TCPDUMP | Wireshark, NMAP |
| **Root/Admin Password** | #ndd430 | P@ssw0rd | #ndd430 | #ndd430 |

* Refer to the document “Virtual Network Setup” for a description of how to create the correct LAN segments for the project
* Refer to the document “Checkpoint 1” for evaluation methods for this stage and for the list of items to be documented and submitted
* **It is highly recommended that you change the root/administrator passwords on each VM.**