Activity 1 – Virtual machines

Part A

A computer system is usually configured to have a single environment in which you work. We can refer to this as a **physical machine**. This physical machine will have an operating system, such as Windows 10, and an amount of main memory and secondary storage.

Investigate the attributes of the computer system you are currently using and complete the table below.

If you are using a **Windows** computer you can use **Windows > System Information**.

If you are using **MacOS** you can specify **Apple menu > System Settings**, then click **General**in the sidebar. Click **About**on the right-hand window, then click **System Report**.

If you are using **Linux**, it will depend on the version you are using and whether you are using a command line interface or a GUI. You should use a Google search to find out how to get the information you need.



|  |  |
| --- | --- |
| **Attribute** | **Your computer system** |
| Operating system (including version) |  |
| Amount of main memory available |  |
| Amount of main memory free |  |
| Hard disk space capacity |  |
| Amount of hard disk space free |  |
| Does the computer system have a second fixed disk (e.g. an SSD). If so:   * Additional disk capacity * Amount of disk space free |  |

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# Part B

For this activity, you are going to look at the documentation for VirtualBox (or an alternative type-2 hypervisor product if preferred):

<https://www.virtualbox.org/wiki/End-user_documentation>

Find out which **guest** operating systems can be installed on which **host** operating systems and complete the table below.

|  |  |
| --- | --- |
| **Host operating system** | **Guest operating system(s)** |
|  |  |
|  |  |
|  |  |
|  |  |

# Part C

Use the internet to research **emulators** for several games consoles.

Make a bullet point list in the table below of any notable issues (with an emulator) that have been reported by users.

|  |  |  |
| --- | --- | --- |
| **Console** | **Emulator(s)** | **Issues** |
|  |  |  |
|  |  |  |
|  |  |  |