Hello Class, In 2010 the Stuxnet virus was discovered. The Stuxnet virus is a computer worm, and the first virus to cause physical destruction to devices, and is also called the first cyber weapon. It is said that the US and Israeli military deployed the virus, because of their cyberwarfare and was used for offense and defense. Using Stuxnet Iran’s nuclear facilities got disabled. It is used to only affect specific configurations, and to the other devices minimum damage. Stuxnet influenced other malware for example Flame, Havex, Duqu, Triton and more.

What is Stuxnet? 5 Fast Facts | Security Encyclopedia. (2022). Retrieved 27 August 2022, from https://www.hypr.com/security-encyclopedia/stuxnet

Using Windows registry, which manages resources, and also stores configuration setting for applications on Windows OS. It is also can be found in file explorer going to ‘C:\Windows\System32\Config\’. Using Unix systems, you will have to edit the file coglocal.xml manually. The differences are that the setting for Windows OS is stored within a folder and uses Window Registry, which is a database. Unix uses a file system where you can change the interface manually. Over Windows, Unix is more reliable and stable, and just overall have a good architectural design. Windows also has a high amount of hacker attacks because it is so easy to crack, which makes it not the ideal operating system to use.

Difference between UNIX and Windows Operating System - javatpoint. (2022). Retrieved 27 August 2022, from <https://www.javatpoint.com/unix-vs-windows-operating-system#:~:text=UNIX%20is%20a%20command%2Dbased,case%20sensitivity%20as%20an%20option>.

Virtual Switches are software programs that enables a Virtual Machine (VM), and used to communicate. Virtual Switches are also used to connect virtual and physical networks to other VMs or other networks. A Virtual Switch is similar to a Physical Switch. A Virtual Switch “Looks up each frame’s destination MAC when it arrives, Forwards a frame to one or more ports for transmission” ("VMware Virtual Networking Concepts", 2022) Virtual Switches also avoid unnecessary transactions.

VMware Virtual Networking Concepts. (2022). Retrieved 28 August 2022, from <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/techpaper/virtual_networking_concepts.pdf>

Hello Class, Quality of Service Management (QoS), which is also known as Storage Quality of Service, let you limit the amount of storage that a VM is allowed to consume. It also permits fairness improvements using same file cluster. QoS provides a way to monitor and manage storage performance for VM. It also provides consistent performance to VMs. QoS stops a single VM from using all the storage resources. QoS policy can be within minimum and maximum performance goals to be configured.

Sign In -uCertify. (2022). Retrieved 28 August 2022, from <https://www.ucertify.com/app/?func=ebook&chapter_no=10>