**COMPUTING SUBJECT:** Virtualization

**TYPE:** Group work

**IDENTIFICATION** Virtualization

**COPYRIGHT:** *Michael Claudius*

**LEVEL:** Medium

**TIME CONSUMPTION:** 8-20 hours

**EXTENT:** Slide show presentation and demonstration

**OBJECTIVE:** The concept of virtualization in IT

**PRECONDITIONS:** VMWare article

**COMMANDS:**

**IDENTIFICATION:** Virtualization/MC

Mission

You are to explore and investigate the virtualization theoretical and pratical concepts.

Useful links

Purpose and conditions

This exercise must be done in groups of 4-5 members.

The group shall choose one of the following topics:

1. Virtualizaton on hardware
	* Microsoft Hyper-V (<http://hyperv.veeam.com/what-is-hyper-v-technology/>)
	* Oracle VM VirtualBox <http://www.oracle.com/us/technologies/virtualization/virtualbox/overview/index.htm>
	* WMWare (<http://www.vmware.com/>)
	* Kali-Linux (<https://www.kali.org/>)
2. Virtualizaton on network
	* Virtual Personal Network (VPN) <https://en.wikipedia.org/wiki/Virtual_private_network>
3. Virtualization in Microsoft Azure

Azure category "Virtual Machine"

<https://manage.windowsazure.com/>

Assignment

The investigation will cover:

* Reading about the virtualization product
* Installation and experiments with the product
* Make one or more practical examples
* Setting up guidelines
* Evaluate the usefulness of the product

Outcome

The group presents the investigation in form of slide shows and one or more demonstration of the product.

* Purpose
* Guidelines on how to work with the product
* Examples in practice
* Final evaluation