

## Introduction to the administration of computer

A few words to start with. This course is very practical, you learn in it basic administration of MS Windows operating system and you take a look at least marginally in the configuration of the computer. Very interesting thing is that you doesn't work on a physical computer, but on the virtual. This allows virtualization solutions from VMware, which offers a wide range of products that cover all your requirements for virtualization. Virtualization offer an effective solution to have cheap and fast computer or a server where you will run any number of virtual servers or computers regardless of the type operating system.

Our task in the subject UAPO was complete administration of virtual PC. Because we worked on a virtual machine, it was first necessary to use the vSphere Client, which allowed us to control the PC as if we were working on a real PC. You can see the individual parameters, if you have the right, you can some change, and of course there is the possibility of a virtual machine off. Administration related to operating system MS Vista. With using the vSphere Client, we turn on the computer and after correct configuration of BIOS, we can begin to install. Already in this step, the virtualization software from VMware have a huge advantage, because it can virtualized your entire computer, including BIOS, chat the program as a VirtualBox does not allow. The installation itself was diverse problems, especially in terms of time and disk sizes on the installation. Here, too, showed great potential of virtualization, where the centrally increased disk capacity, which is a huge advantage. Another useful and frequently used function during installation was a key to the suspension of Virtual PC. After successfully installing the operating system and security on the computers we could with a computer to the internet. Using virtualization software from VMware emulates a complete computer, such as a network card with support for PCX and its own MAC address. Our computer outwardly acted as any other non-virtual machine, and therefore it was necessary to properly configure the machine. His identity still fell below the FPE and therefore would not be appropriate to our own, a virtual machine, send to the world of internet spam and viruses. To this time we have used only a vSphere Client, which we subsequently abandoned. Not that it wouldn't continue to work, but we used terminal connections contained in MS Vista, which is considerably faster and offers other options. To the vSphere Client, we returned only if we want to change the BIOS setting, or turn on a virtual PC. If I evaluate the work on virtual machines, so from classical computer is this nearly the same, rather I would to say that is even more convenient. Even it is necessary to show the fact that if once server of virtualization much encumbered is, declining performance of virtual machines. Because was better in the make semester's work, to access the virtual machine when the server wasn't loaded.

If you still do not see the benefits of virtualization, imagine that you have on your personal computer installed three operating systems and at home two more servers. If you want to proceed to the one of the installed systems, there is a needed restart of your computer and in the second case you have two noisy boxes. With solutions from VMware you will only need one computer and you will be able to access all systems simultaneously. At least that is a huge convenience, investigation time, lower power consumption, better access to the ecology and overall reliability. But it also has badside. If you want a larger network of computers, it is necessary to allow for a higher price for the purchase of high-quality server with support for virtualization, and then calculate the risk of central control. If fall off the server, you wouldn't have virtualized computers. As you can see, virtualization has advantages and disadvantages, but I think that the benefits greatly outweigh.

After completing this course, I was really excited about virtualization and solutions from VMware. It should be noted that VMware is not the only one company, which deals with virtualization, but offers better support for 64 - bit systems, USB 2.0, graphics acceleration cards, etc.

Virtualization is a very interesting subject and this subject will show you many advantages. For my part, perhaps, I might add that if you get used to the virtualization, you will never leave it.

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**Sources:**

VMware Virtualization Software for Desktops, Servers & Virtual Machines for Public and Private Cloud Solutions[online]. 2011 [cit. 2011-08-25]. Dostupné z WWW: <<http://www.VMware.com/>>