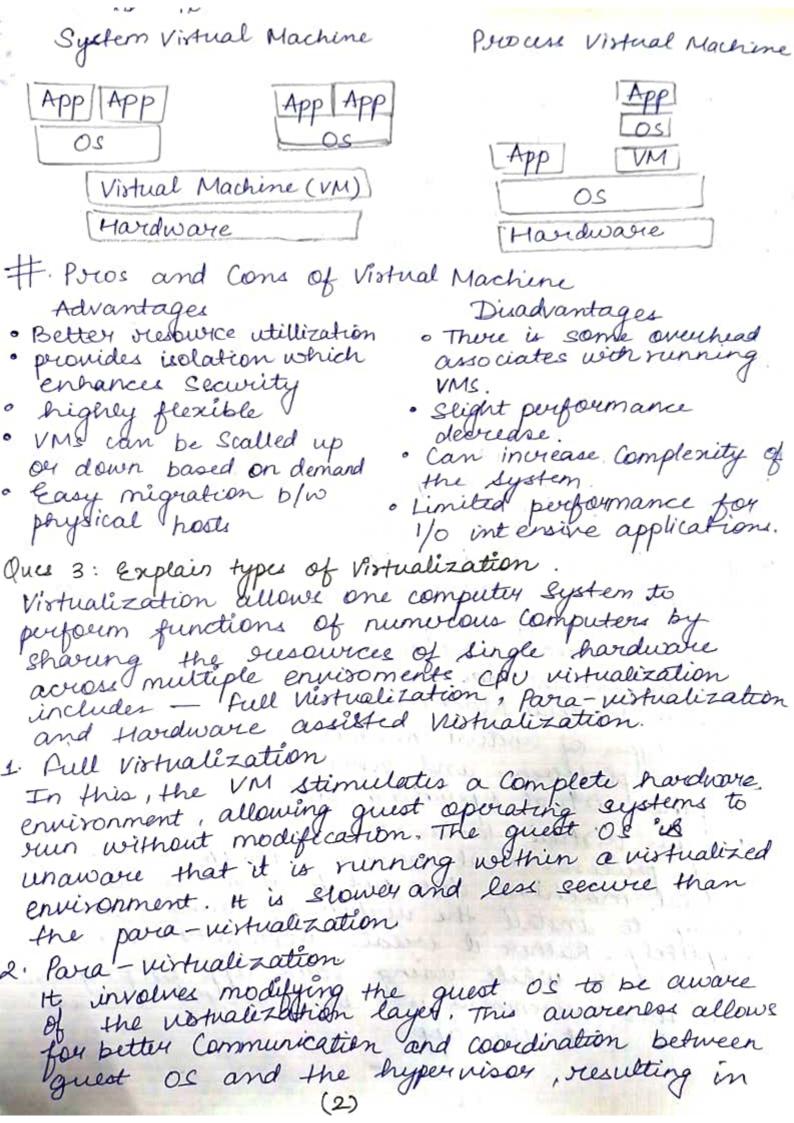
al salice me suctem Ass. Operating System Assignment 3 3 December 2003 Name: Vouvashi Gangal Enroll no.: 01019011721 (010) class: ITOT B1 30d year, 5th sem Ques 1: What is Virtualization? Vivitualization is a technology that allows multiple operating systems and applications to our an the same physical hardware simultaneously. It creates a distual version of Computing rusources cuch as servers, storage, network devices etc. Ques 2: What are vividual machines and their types? with pros and Cons of the virtual machine. Vivitual Machines (VM) - It takes the layured approach to its logical conclusion. It treats hardware and the operating system kerrel as they were all hardware. - It perovides an interface indentical to the undulying bare hardware. - The viesdurces of the physical Computer are shared to create Vivitual machines. · Types of Vivitual Machines 1. System Voctual Machine These types of violitical machine gives us a complete system platform and gives the execution of 2. Process Virtual Machine While process virtual machines white System virtual machine does not provide us with facility to install the vivitual operating system Completely. Rather it creates vistual chiefonnent of that os while using some app on program and this environment will be distroyed as soon as we exit the app. (1)



... Vistual Machine

impressed performance. Syste 3. Hardware Assisted Virtualization (HVM) It combines aspects of both full and para-violualization. It leverages hardware features to improve vistualization performance. This type of virtualization aims to reduce the need for modification to the quest os. Ques 4: Explain Hyperisseus. hypervesor, also known as Vistual Machine monitor Adv (VMM) is a piece of Software that allows us to build and own VM which are abbrieviated as Bette perou eno It allows a single host computer to support meg o multiple VMs by shaving resources including MME OH C memory and perocessing Eas Also known / allows use of mon of system's pory available resources and provide greater IT versability because the guest VMs are Jues independent of hest hardware which is one of Vist of Hypernisons. the major benefits pert It helps to reduce Shi Space Efficiency ac ir

a - Energy usage

1. f - Maintainence Reguviernent.

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2.