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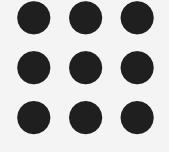
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

COURSE NAME: 19AD503- CLOUD COMPUTING TOOLS AND TECHNIQUES

III YEAR / V SEMESTER

Unit 5- Introduction to VMWare Simulator

Topic 4-Creating Virtual Machines







Creating virtual machines (VMs) in VMware Workstation is a straightforward process that allows you to run multiple operating systems on a single physical machine.

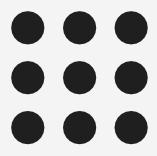






Step 1: Prepare for VM Creation

- 1. Gather Installation Media
- . ISO File: Download an ISO image of the operating system you wish to install (e.g., Windows, Linux).
- . Physical Media: If you have a CD/DVD, ensure it is available for use.
- 2. Ensure System Requirements
- . Check that your host machine has sufficient resources (CPU, RAM, disk space) to support additional VMs.





Step 2: Open VMware Workstation



- 1.Launch VMware Workstation on your host machine.
- 2.If prompted, choose to either create a new virtual machine or open an existing one.

Step 3: Create a New Virtual Machine

Select "Create a New Virtual Machine"

. This option is typically found on the home screen.

Choose Configuration Type

- Typical: Recommended for most users. It streamlines the setup process.
- Custom: Allows advanced configuration options if you need specific settings.

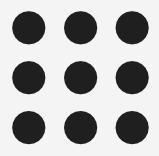




Step 4: Select Installation Media



- 1. Choose the Operating System Source
- Installer Disc: If using a physical CD/DVD, select this option and insert the disc.
- Installer Disc Image File (ISO): Browse to the location of the ISO file on your hard drive.
- I Will Install the Operating System Later: If you want to create the VM without immediately installing the OS (you can do this later).

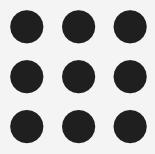




Step 5: Configure the Virtual Machine Name the Virtual Machine



- Give your VM a meaningful name to identify it easily.
- Choose the location where the VM files will be stored on your disk.
- Select Guest Operating System
- Choose the operating system type (Windows, Linux, etc.) and version from the dropdown menu.





Step 6: Allocate Resources

Processor Configuration



Specify the number of processor cores to allocate to the VM. More cores can improve performance.

Memory Allocation

Set the amount of RAM for the VM. A general guideline is to allocate at least 2 GB for modern OS, but it depends on the OS and applications you plan to run.

Network Connection

- . Choose the network type:
- . NAT: Allows the VM to access external networks through the host.
- . Bridged: The VM will appear as a separate device on the network.
- . Host-Only: The VM can communicate with the host but not with external networks.







Disk Space Configuration

- Specify the disk size for the VM. Choose whether to store the virtual disk as a single file or split into multiple files (the latter is often better for portability).
- Select whether to allocate all disk space immediately or allow the disk to grow as needed.

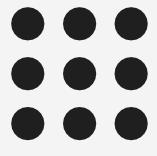








- . Click on "Customize Hardware" before finishing the setup if you need to adjust settings such as:
- Processors: Number of cores, virtualization extensions.
- . Memory: Fine-tune RAM settings.
- . Network Adapters: Modify network settings.
- USB Controllers: Enable or configure USB support.
- Display Settings: Adjust graphics settings for better performance.





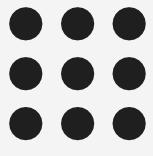


Step 8: Finish Creating the Virtual Machine Review Your Settings

Go through the summary of your VM settings to ensure everything is correct.

Complete the Creation Process

Click "Finish" to create the VM. You will see the new VM listed in your VMware Workstation library.







Step 9: Install the Operating System

- 1.Power On the VM
- Select the VM and click "Power on this virtual machine."
- 2. Follow the Installation Process
- The VM will boot from the selected installation media.
- Follow the on-screen instructions to install the operating system, similar to how you would on a physical machine.







Step 10: Install VMware Tools (Post-Installation)

After the OS installation is complete:

- 1.Install VMware Tools
 - VMware Tools improves performance and provides additional features (like better graphics, mouse integration, etc.).
 - In the VM menu, select "Install VMware Tools" and follow the prompts in the guest OS to complete the installation.

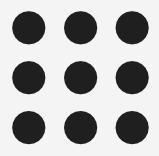






Step 11: Additional Configurations

- 1. Network Settings: Adjust any necessary network settings in the guest OS.
- 2. Shared Folders: Set up shared folders for easy file transfer between the host and VM.
- 3.Snapshots: Take a snapshot to save the current state of the VM, allowing you to revert if needed.

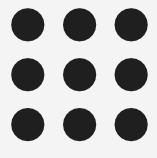






Conclusion

Creating a virtual machine using VMware Workstation involves several straightforward steps, from gathering installation media to configuring resources and installing the operating system. Once set up, VMs provide a flexible environment for development, testing, and learning, allowing you to simulate various computing scenarios without the need for additional physical hardware.







Thank You...