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Ex No: 1a)

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INSTALLATION AND CONFIGURATION OF LINUX

Aim:

To install and configure Linux operating system in a Virtual Machine.

Installation/Configuration Steps:

1. Install the required packages for virtualization

`dnf install xen virt-manager qemu libvirt`

2. Configure xend to start up on boot

`systemctl enable virt-manager.service`

3. Reboot the machine

Reboot

4. Create Virtual machine by first running virt-manager

`virt-manager &`

5. Click on File and then click to connect to localhost

6. In the base menu, right click on the localhost(QEMU) to create a new VM 7. Select Linux ISO image

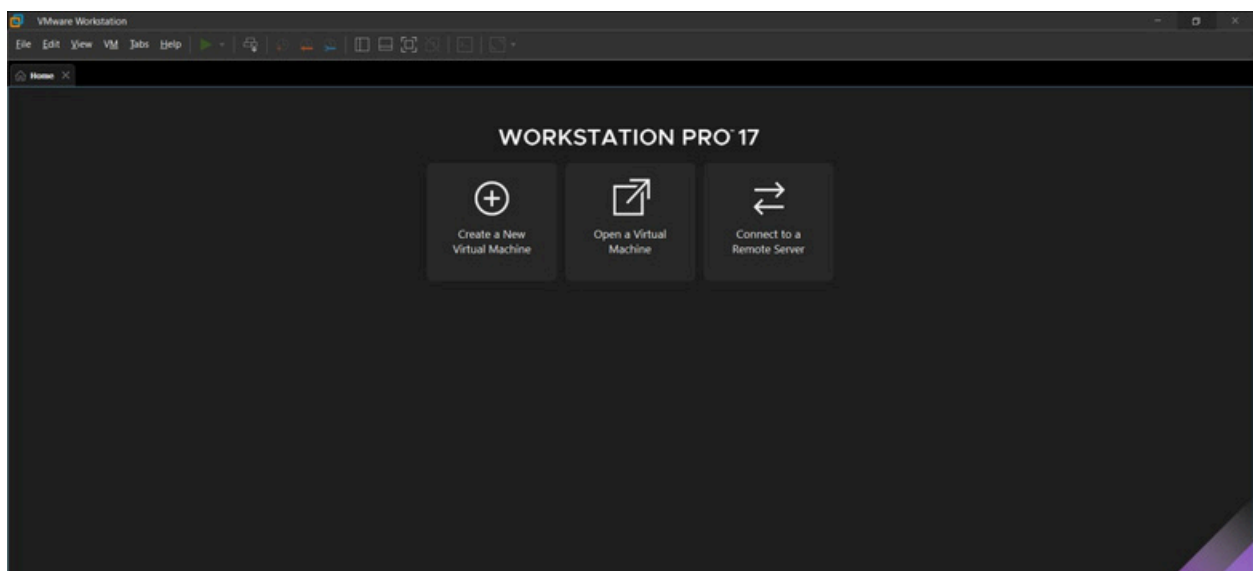
8. Choose puppy-linux.iso then kernel version



9. Select CPU and RAM limits

10. Create default disk image to 8 GB

11. Click finish for creating the new VM with PuppyLinux

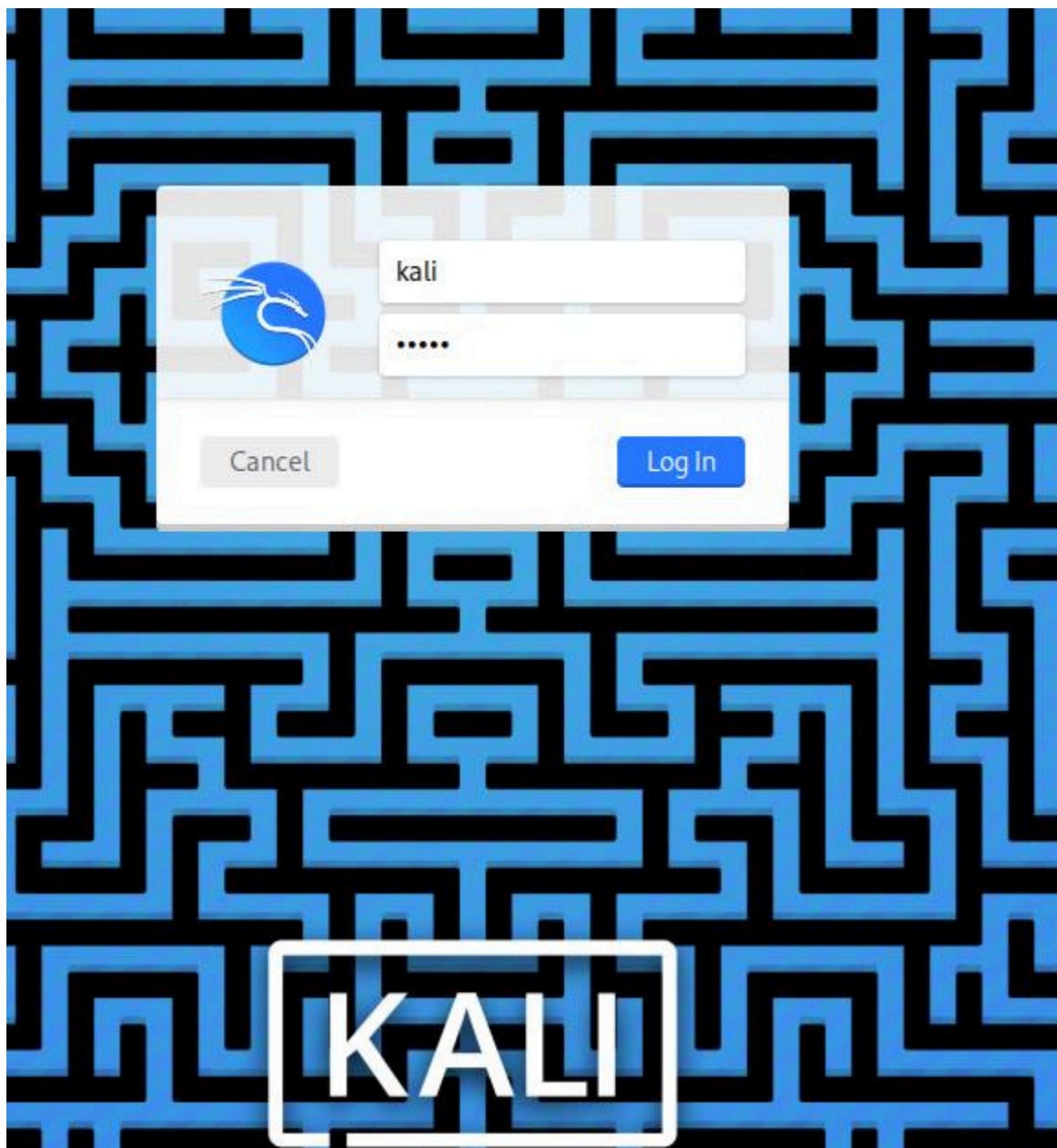
OUTPUT:



Name	Date modified	Type
 kali-linux-2024.3-vmware-amd64.vmx.lck	25-04-2025 18:31	File folder
 kali-linux-2024.3-vmware-amd64	22-04-2025 19:50	VMware virtual ma...

The image shows the VMware Workstation interface with a Kali Linux 2024.3 virtual machine. The left sidebar contains the configuration for the VM, including memory (2 GB), processors (4), hard disk (80.1 GB), network adapter (NAT), USB controller, sound card (Auto detect), and display (Auto detect). The main window displays the VM's boot progress, with a terminal window open showing the Kali Linux boot sequence. The terminal output includes the GRUB menu, the installation of the Kali Linux 2024.3 system, and the boot process. The bottom status bar indicates the VM is powered off.





RESULT:

Hence, Linux operating system in the virtual machine is installed and configured successfully.