

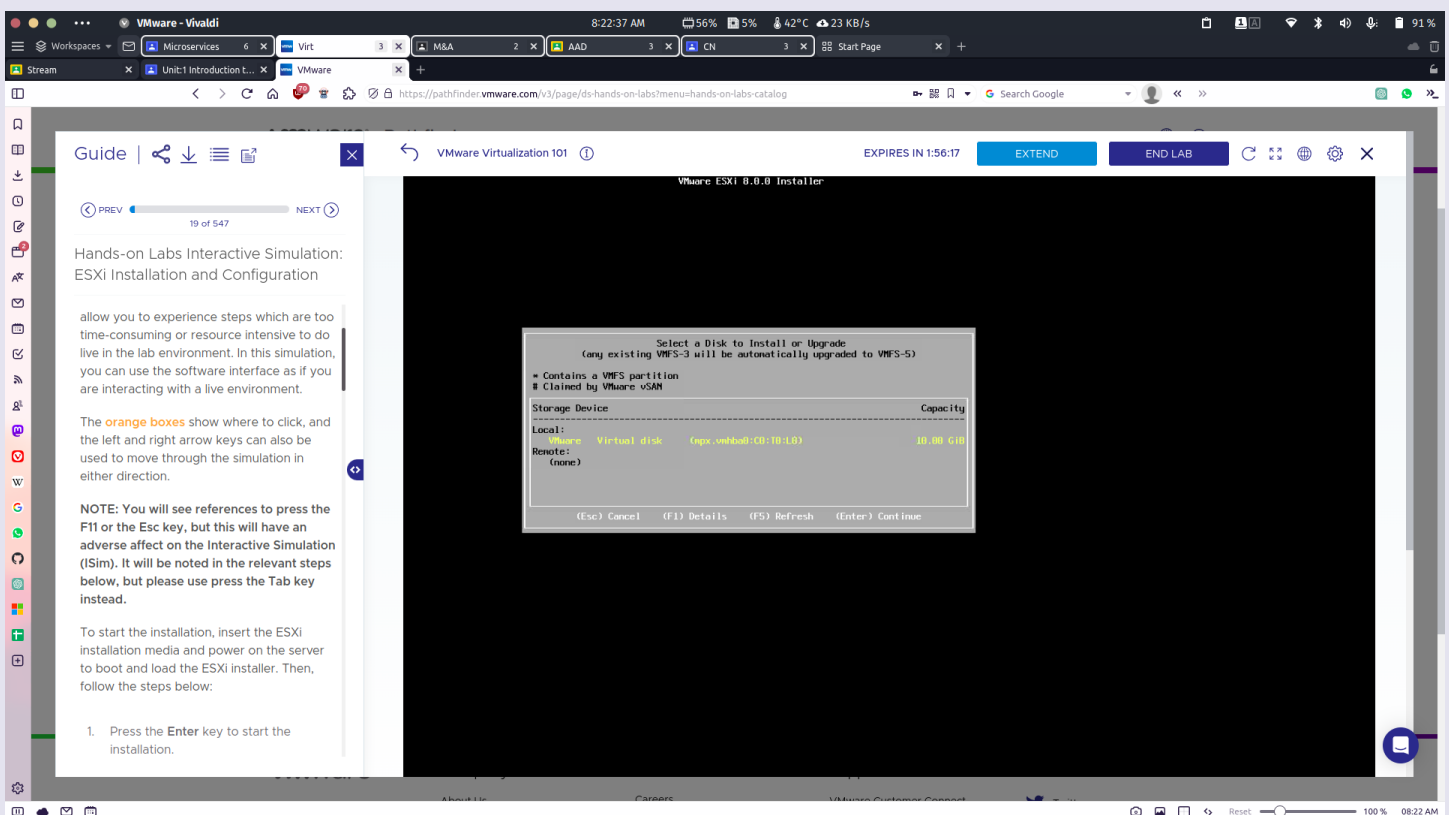
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Enrollment number - 21162101012  
Branch - CBA      Batch - 51  
Virtualization Practical 1

## Practical 1: Management with vCenter Server through ESXi.

### Installation and configuration of ESXi:

Type1 hypervisor is typically a VMM (Virtual Machine Manager), which directly runs on system hardware (bare metal) without any host OS to manage multiple Virtual Machines on the same system. ESXi is such a Type1 hypervisor.

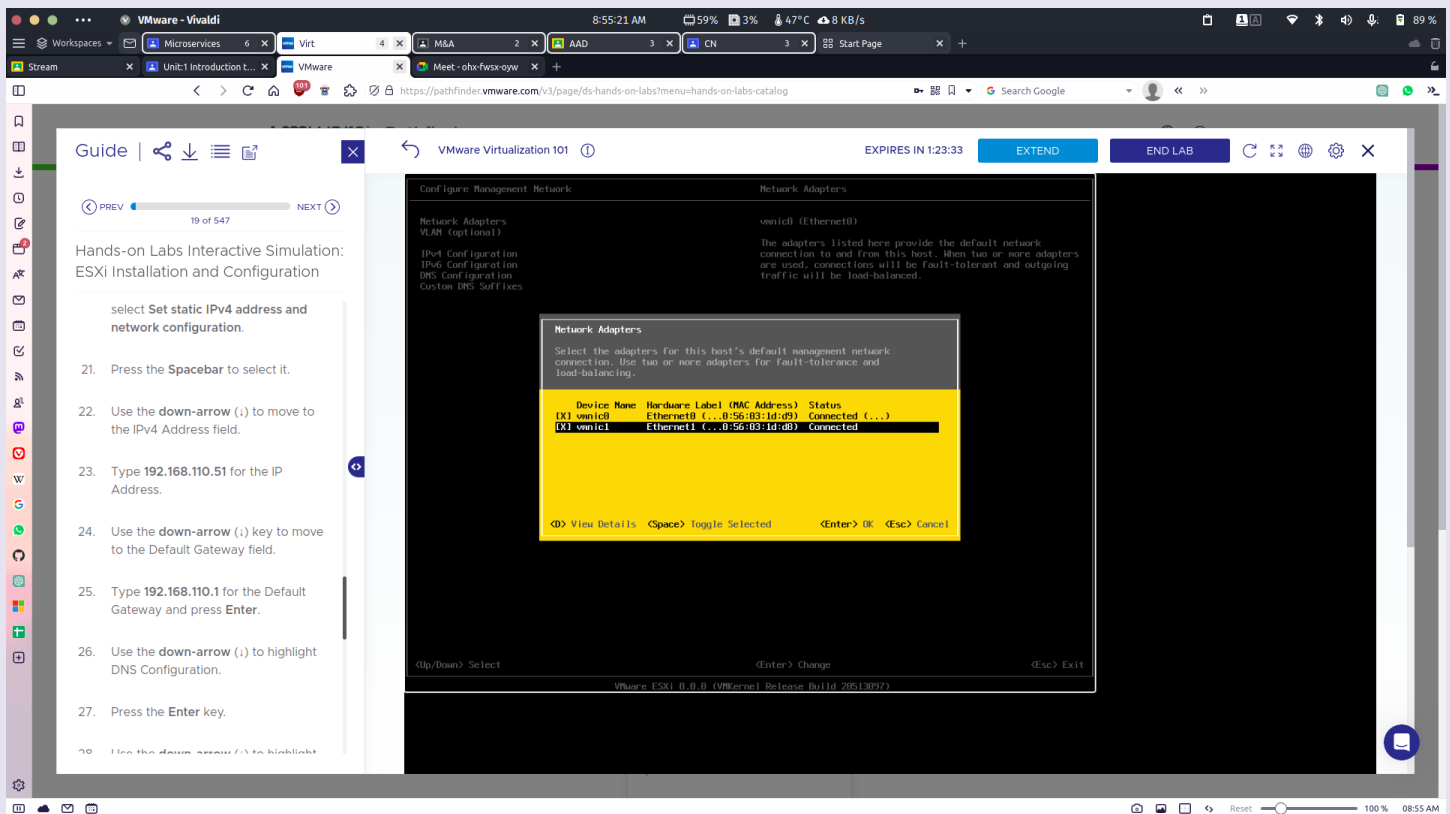
1. To install it, the system is booted and drive is to be selected for partitioning



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2. Then, from the system configuration, network is to be configured for better usage.

**Note :** For network, multiple (i.e. more than one) network adapters should be used for load balancing and better error handling, so here two adapters are selected to use.



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3. To ensure network connectivity, IP configuration must be taken care of. Hence, IPv4 address, subnet and gateways are assigned respectively.

The screenshot displays a VMware Workstation interface with a virtual machine named 'Vivaldi'. The main window shows a network configuration tutorial for a virtual machine. The tutorial is titled 'select Set static IPv4 address and network configuration.' and lists the following steps:

21. Press the Spacebar to select it.
22. Use the down-arrow (↓) to move to the IPv4 Address field.
23. Type 192.168.110.51 for the IP Address.
24. Use the down-arrow (↓) key to move to the Default Gateway field.
25. Type 192.168.110.1 for the Default Gateway and press Enter.
26. Use the down-arrow (↓) to highlight DNS Configuration.
27. Press the Enter key.
28. Use the down-arrow (↓) to highlight

The background of the tutorial shows a terminal window with the following text:

```
Custom DNS Suffixes
This host can obtain an IPv4 address and other networking
parameters automatically if your network includes a DHCP
server. If not, ask your network administrator for the
appropriate settings.

IPv4 Configuration
This host can obtain network settings automatically if your network
includes a DHCP server. If it does not, the following settings must be
specified:

( ) Disable IPv4 configuration for management network
( ) Use dynamic IPv4 address and network configuration
(a) Set static IPv4 address and network configuration:

IPv4 Address      ( 192.168.110.51 )
Subnet Mask       ( 255.255.255.0 )
Default Gateway   ( 192.168.110.1 )

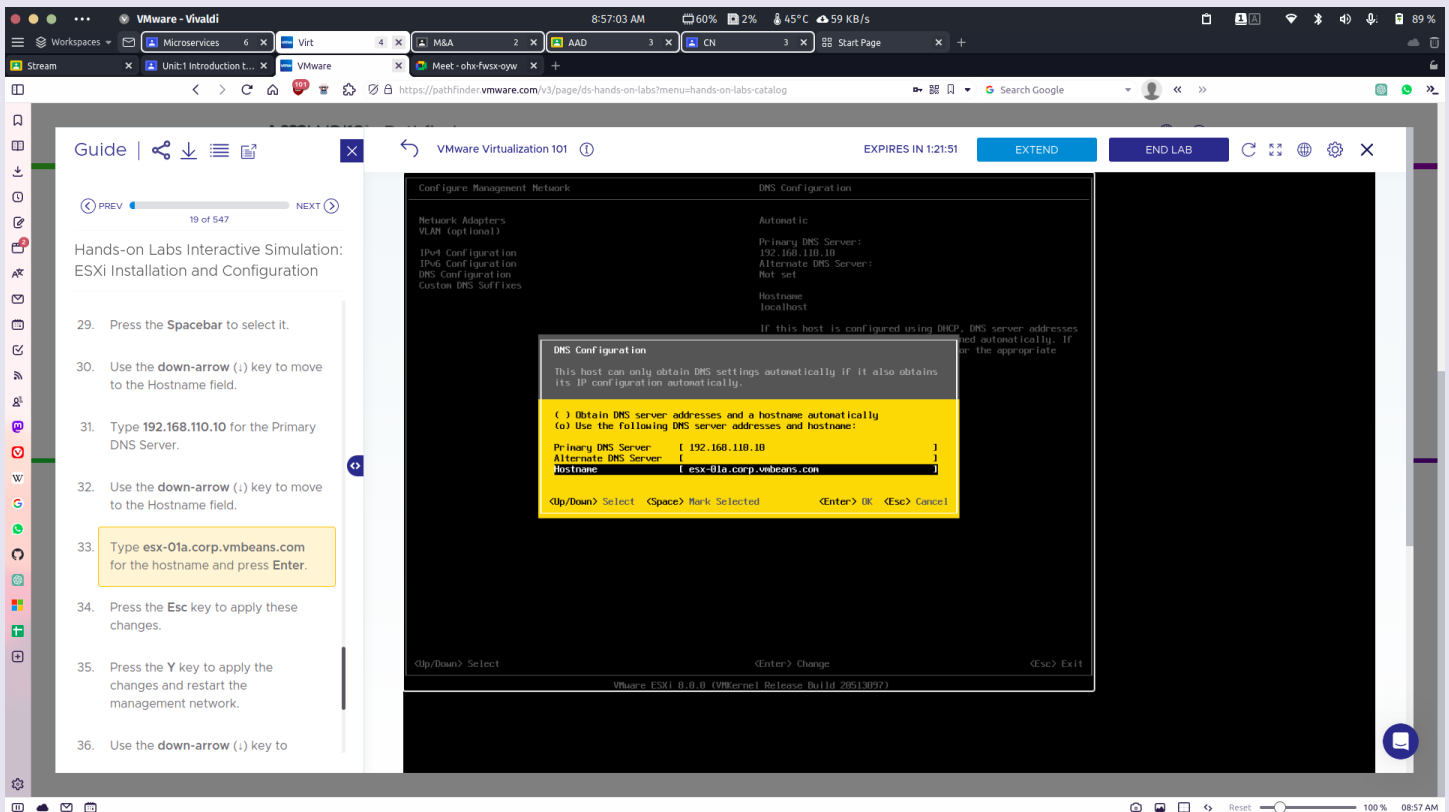
<Up/Down> Select <Space> Mark Selected <Enter> OK <Esc> Cancel

<Up/Down> Select <Enter> Change <Esc> Exit

VMware ESXi 6.0.0 (VMKernel) Release Build 20513097
```

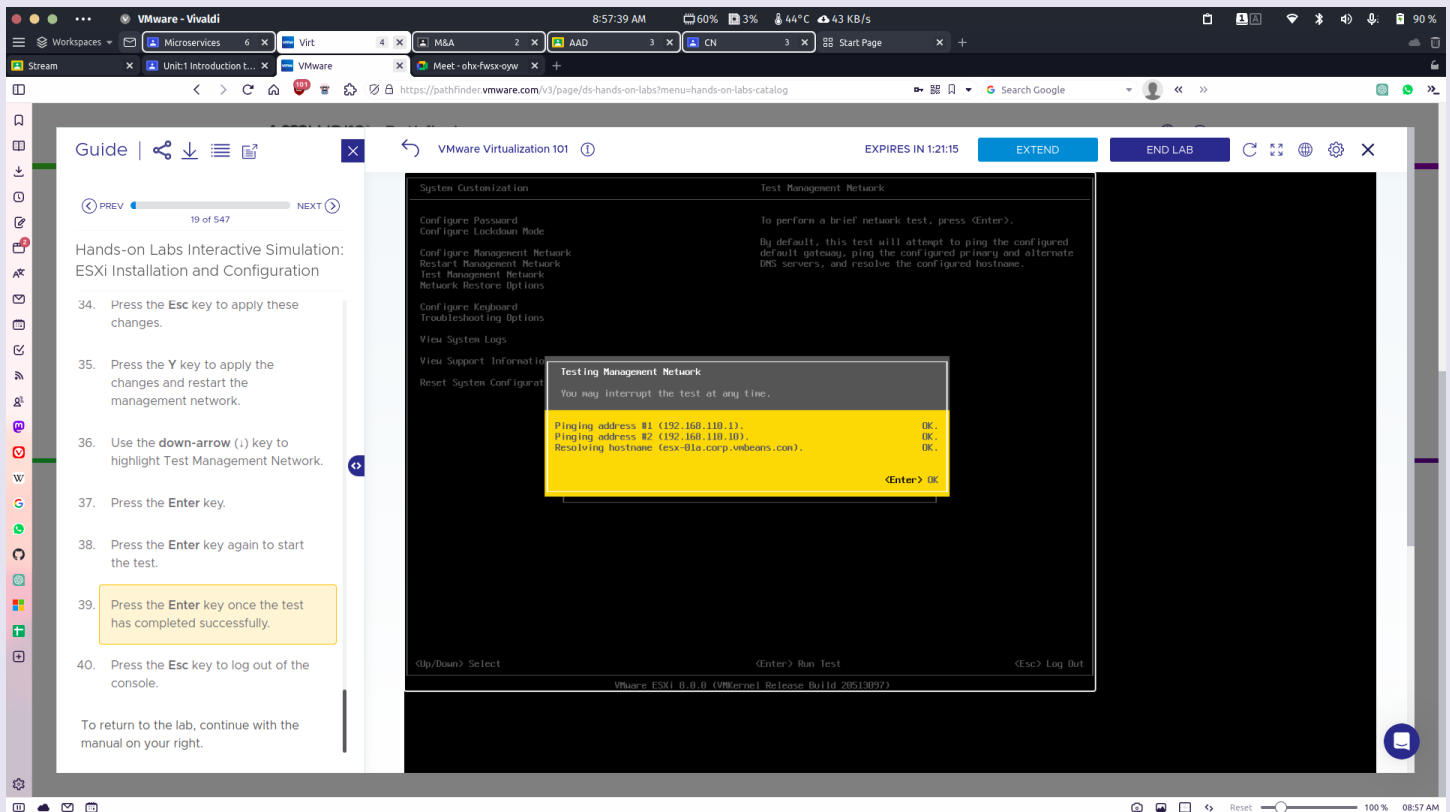
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4. Now, for accessing the internet via URL, DNS servers must be configured. Therefore, DNS IP is assigned and machine hostname is given.



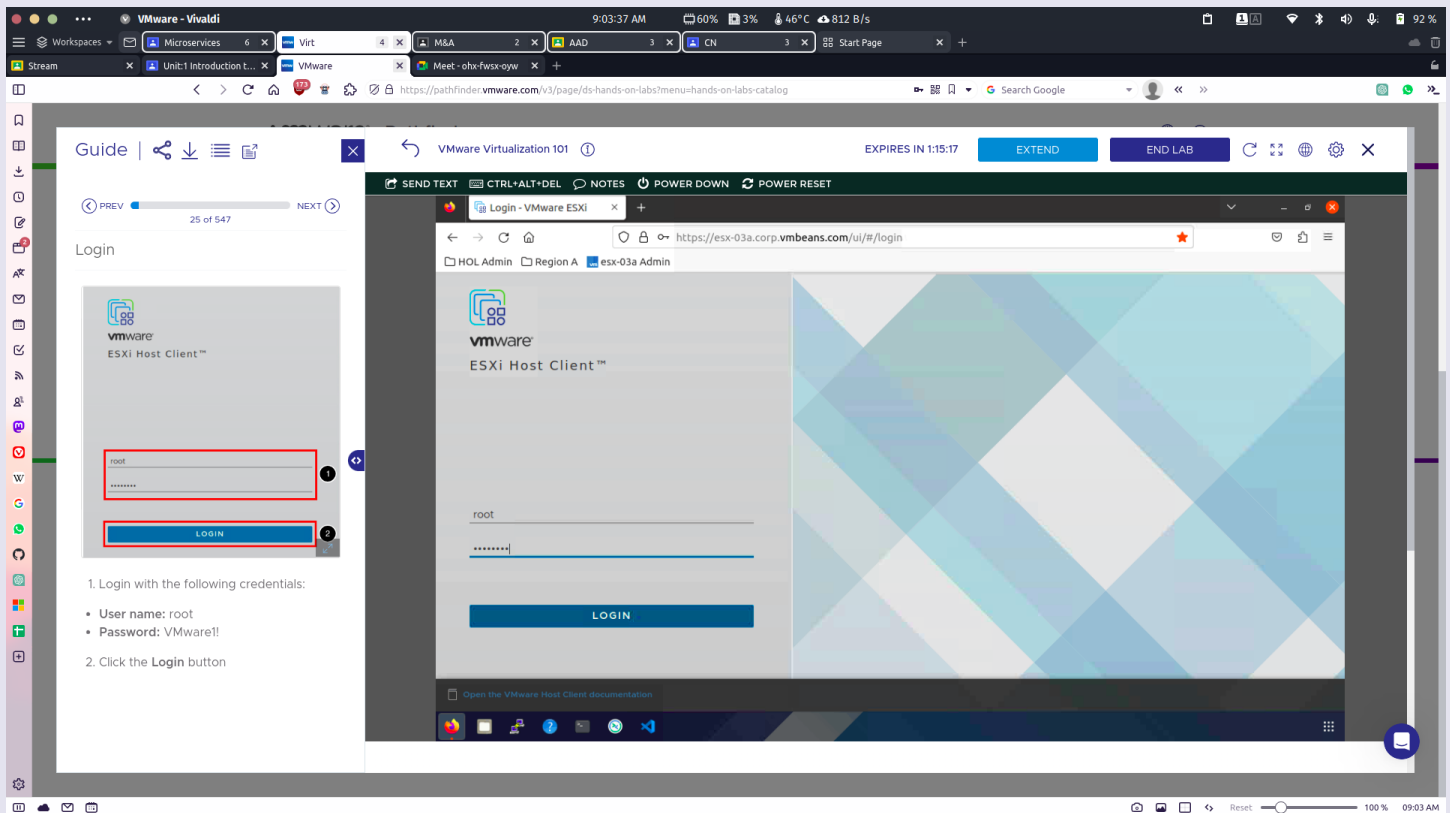
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5. Also, to ensure the connectivity, testing is done via pinging and final configuration is saved.



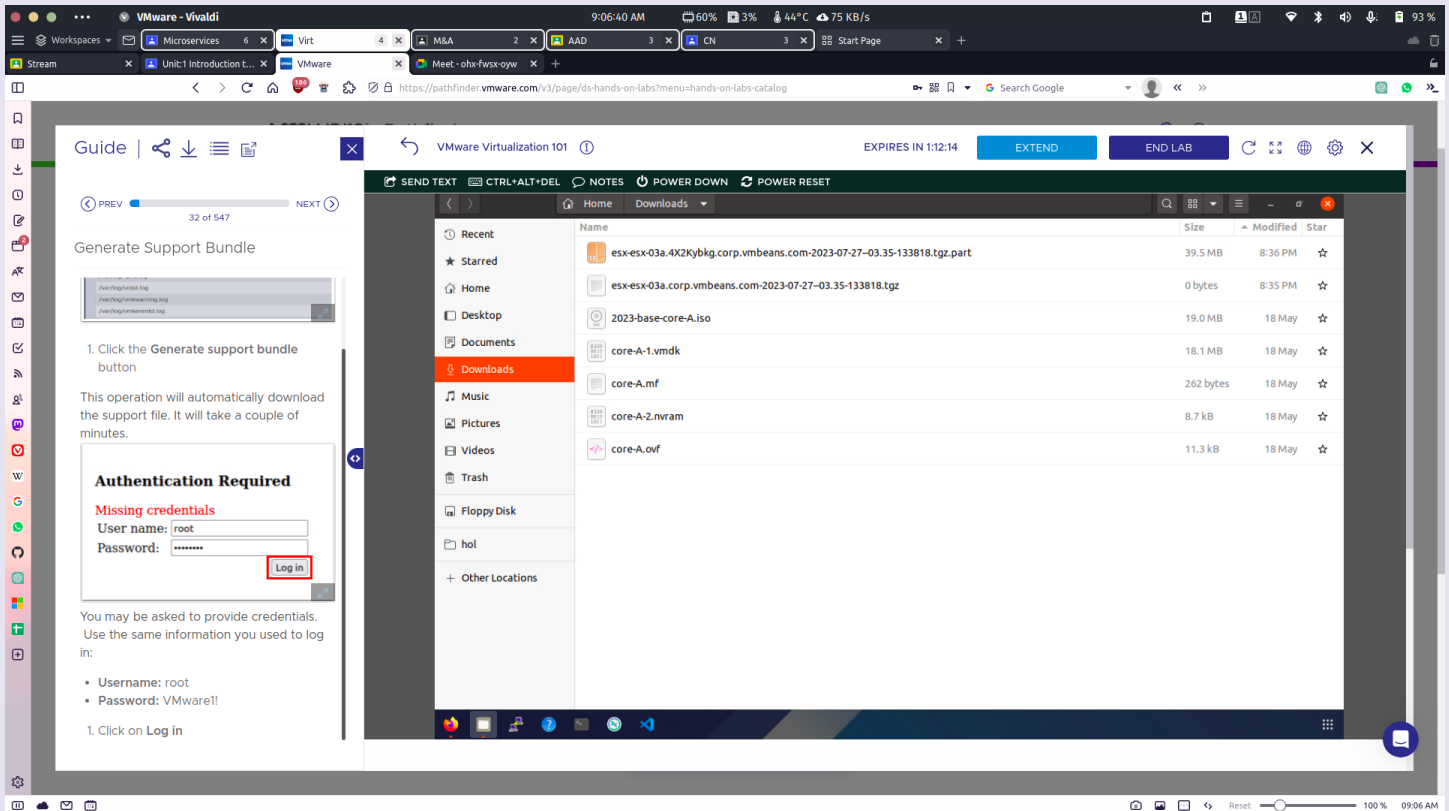
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6. Then, the system is booted and in any browser, ESXi host client can be accessed via the given URL with respective username and password to manage the Virtual Machine.



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7. For troubleshooting or debugging purposes, the log file can be generated for ease of support from VMware. The download option is there in **Generate Support Bundle** option in **Monitor > Logs**.



Thus, ESXi installation and configuration is done and use cases of the ESXi host client are analyzed.