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1. Which network mode in VirtualBox can be used to emulate unplugging the Ethernet cable from the network?
   1. The network mode would be NAT Network mode to emulate unplugging the ethernet cable from the network.
2. Which network mode would be best if you wanted to run a server on a VM that could be fully accessible from your physical local area network?
   1. The network mode would be Bridged Adapter mode to allow access to the physical LAN.
3. What are the three options of promiscuous mode and what does each do?
   1. **Deny:** In "Deny" mode, the virtual network adapter is not allowed to capture or inspect any network traffic other than traffic specifically destined for it.
   2. **Allow VMs**: This mode allows the VM to see network traffic that is intended for it.
   3. **Allow All:** In this mode, the virtual network adapter of the VM can capture and inspect all network traffic on the host network segment, including traffic not addressed to it
4. What is Port Forwarding?
   1. Port forwarding is a networking technique that allows data traffic to flow through a network gateway or router to reach specific devices or services on a private local network.