Steps for VM Configuration

1. **Introduction**
   * The MTU College of Computing Cluster allows remote access to virtual machines via a web browser interface.
2. **Navigating the Cluster**
   * Select the second icon in the interface.
   * Expand the CCC and locate your class folder:  
     Vcenter-ccc.ad.mtu.edu / VM-Students / VM-Classes / VM-Spring-2025 / VM-SAT5424-S25.
   * Expand the CCC and locate your templates folder:  
     Vcenter-ccc.ad.mtu.edu / VM-Students / VM-Student-Templates / Template-SAT5424-S24.
3. **Deploying a Virtual Machine from a Template**
   * Expand the Template-SAT5424-S24 folder and select the ubuntu-docker-template.
   * Right-click and choose "New VM from This Template..."
   * Name the VM (e.g., aspirus-hospital-ubuntu) and select the target folder:  
     vcenter-ccc.ad.mtu.edu / CCC / VM-Students / VM-Classes / VM-Spring-2025 / VM-SAT5424-S25 / VM-youruserid.
   * Select a compute resource (e.g., RP-hembroff).
   * Choose storage: Select netapp\_ccc1\_course and ensure the disk format is "Thin Provision."
   * Leave clone options as default and click "Finish" to deploy the VM.
   * Wait up to 10 minutes for deployment.
4. **Post-Deployment Configuration**
   * **Network Configuration**:
     + Right-click the VM and select "Edit Settings."
     + Choose the private VLAN for students (e.g., pv-stu\_v3065).
   * **Power On and IP Setup**:
     + Power on the VM and launch the web console.
     + Log in with the "test" account (password: P@sswOrd).
     + Navigate to "Wired Settings," select IPv4, and set the IP address, subnet mask, gateway, and DNS manually (use the assigned IP range).
5. **Optional VMware Tools Installation**
   * For Linux VMs:
     + Install open-vm-tools: sudo apt install open-vm-tools (DPKG) or sudo dnf install open-vm-tools (RPM).
     + Install net-tools: sudo apt install net-tools (DPKG) or sudo dnf install net-tools (RPM).
6. **Repeat for Additional VMs**
   * Create and configure additional VMs (e.g., portage, bomb, mgh, uphie).
7. **Optional Password Change**
   * Change the password for the "test" account if desired.

Steps from "Virtual Cluster Access-SAT 5424 (2) (1).pdf":

1. **Introduction**
   * The MTU College of Computing Cluster provides remote access to VMs via a web browser.
2. **Requirements**
   * MTU-VPN connection.
   * HTML5-compatible web browser.
3. **MTU-VPN Setup**
   * Download the MTU-VPN client from http://vpn.mtu.edu.
   * Install the "BIG-IP Edge Client" from the downloaded files.
   * Launch the client, enter MTU ISO credentials, and click "Connect."
4. **Connecting to the Cluster**
   * Open a browser and navigate to https://vcenter-ccc.ad.mtu.edu.
5. **Navigating the Cluster**
   * Select the second icon in the interface.
   * Expand the CCC and locate your class folder:  
     Vcenter-ccc.ad.mtu.edu / VM-Students / VM-Classes / VM-Spring-2025 / VM-SAT5424-S25.
   * Expand the CCC and locate your templates folder:  
     Vcenter-ccc.ad.mtu.edu / VM-Students / VM-Student-Templates / Template-SAT5424-S24.
6. **Completion**
   * You are now connected to the cluster. Refer to course-specific instructions for further actions.