Lab 8 Manual
(HOME ASSIGNMENT)

Google → https://labs.hol.vmware.com/HOL/catalogs/→
Search in the HOL environment for virtualization 101 → sign up and enroll in the lab.
Perform Lab 8 and submit it using the guidelines.

Throughout the lab use the following for deployments:

Host → esx-01a.corp.local

Datastore → ds-iscsi01 (THIN PROVISIONING)

Task 1: Create a Resource Pool

1. Enable the vSphere HA on the RegionA01-COMP01
2. Enable the vSphere DRS on the RegionA01-COMP01
3. Create a new Resource Pool on RegionA01-COMP01 as a **CHILD** of the root resource pool and name it with your first+last name
   Observe the default values for the shares, limits and reservations assigned.
4. The Reservations for your pool should be NOT expandable

   Set the CPU reservation to 1000 MHZ and the shares to High.

   Set the memory reservation to 2000 MB and the shares to normal.
5. Power off the three VMs (TinyLinux, TinyLinux2, Windows10)
6. Drag and drop the three VMs inside your resource pool
   Take screenshot 1 showing the 3 VMs inside the resource pool
7. Edit the setting for three VMs to lock all the configured memory for the VM
   Edit settings > Expand memory > Check (Reserve all guest memory)

8. Power on TinyLinux VM, then the TinyLinux2 VM, and finally the Windows10 VM.
   Take screenshot 2 showing the error and comment based on your configuration why this step is not feasible.

Task 2: Edit The Resource Pool

9. Make the resource pool memory reservation expandable

10. Power on the Windows10 VM
    Take screenshot 3 showing the three powered on VMs inside your resource pool

11. Schedule a changes to Resource Pool Settings

    The CPU shares should be changed to High once at 14/5/2024
    The CPU reservation should be changed to 2000 MHZ once at 14/5/2024

Task 3: Create a vApp

12. Create a Vapp inside your pool
    The vApp name should be your last name+ID
    Keep the default settings for shares, reservations and limits
13. Add TinyLinux and TinyLinux2 VMs to the Vapp
14. Configure the starting order of the 2 vms
    TinyLinux2 should start 300 s behind TinyLinux VM
15. Configure the vApp shutdown
    Shutdown action → guest shutdown.
    TinyLinux2 should be powered off 300 s behind TinyLinux VM
16. **Take Screenshot 4 showing the configured order.**

Task 4: vApp Deletion

17. Power off the vApp and delete it permanently

    Take Screenshot 5 showing the Hosts and Clusters tab after the vApp deletion. Observe that the VMs inside the vApp are also deleted when you delete the vApp

Task 5: Resource Pool Deletion

18. Delete your resource pool

Take Screenshot 6 showing the Hosts and Clusters tab after the resource pool deletion. Observe that the VM inside the resource pool is not deleted and is reallocated to take resources directly from the root resource pool.

Task 6: vSwitches

19. Click Finish Lab
20. Re- enroll in the virtualization 101 lab
21. In the lab manual at the right side of your screen navigate to page 224
22. Follow the guide from page 224 till 338
23. **Take Screenshot 7 at page 235 showing all 3 virtual switches configured for the host. Make sure the 3 switches are not expanded to fit in one screenshot.**
24. For page 314 change the default name for the switch to your be your first name+ID
25. Take screenshot 8 at page 317 showing the ready to complete page for your newly created switch.

Submission:

Submit the required screenshots in a zip folder named after your ID using this link https://forms.gle/1BUPdMDJgk4e6eQE6 . The Deadline for this Lab is **Monday 20/05/2024 at 11:59 PM**