

ESXi host:

MingluLiu-CentOS6.8i386-794-2 is off

MingluLiu-CentOS6.8i386-794-2

Guest OS: CentOS 4/5/6 (32-bit)  
Compatibility: ESXi 6.0 and later (VM version 11)  
VMware Tools: No  
CPUs: 1  
Memory: 2 GB

CPU: 0 MHz  
MEMORY: 0 B  
STORAGE: 1.24 MB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools.

after:

```
Run: test test
/Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Home/bin/java ...
Enter IP, username, password, and VM name in one line, separated by space:
https://172.16.55.135/vmfs/vmkcmd -p root -H 172.16.55.135 MingluLiu-CentOS6.8i386-794-2
host[0]:
Name = localhost.localdomain
ProductFullName = VMware ESXi
VM Name = MingluLiu-CentOS6.8i386-794-2
GuestOS = CentOS 4/5/6 (32-bit)
Guest State = notRunning
Power State = poweredOff
Host = localhost.localdomain
Snapshot: status = success
Clone: status = error
Migration skipped: only one ESXi host
task[0]: operation name: CreateSnapshot_Task, startTime: Wed Oct 05 18:11:49 PDT 2016, endTime: Wed Oct 05 18:11:50 PDT 2016 status: success
task[1]: operation name: CloneVM_Task, startTime: Wed Oct 05 18:11:51 PDT 2016, endTime: Wed Oct 05 18:11:51 PDT 2016 status: The operation is not supported on the
```

summary:

MingluLiu-CentOS6.8i386-794-2

Guest OS: CentOS 4/5/6 (32-bit)  
Compatibility: ESXi 6.0 and later (VM version 11)  
VMware Tools: No  
CPUs: 1  
Memory: 2 GB

CPU: 0 MHz  
MEMORY: 0 B  
STORAGE: 2.24 MB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools.

| Task            | Target                  | Initiator | Queued | Started             | Result                               | Completed           |
|-----------------|-------------------------|-----------|--------|---------------------|--------------------------------------|---------------------|
| Clone VM        | MingluLiu-CentOS6.8i... | root      |        | 10/05/2016 18:19:14 | Failed - The operation is not sup... | 10/05/2016 18:19:14 |
| Create Snapshot | MingluLiu-CentOS6.8i... | root      |        | 10/05/2016 18:19:12 | Completed successfully               | 10/05/2016 18:19:13 |

snapshot:

Manage VM snapshot for MingluLiu-CentOS6.8i386-794-2

Take Restore Delete Delete All Edit Refresh

MingluLiu-CentOS6.8i386-794-2  
snapshotTask  
You are here

|             |                                       |
|-------------|---------------------------------------|
| Name        | snapshotTask                          |
| Description | take a snapshot                       |
| Created     | Wednesday, October 05, 2016, 18:19:12 |

**Close**

tasks:

MingluLiu-CentOS6.8i386-794-2 - Monitor

Performance Events Tasks Logs Notifications

Refresh Actions

| Task            | Target                   | Initiator | Queued              | Started             | Result   | Completed           |
|-----------------|--------------------------|-----------|---------------------|---------------------|--|---------------------|
| Clone VM        | MingluLiu-CentOS6.8i3... | root      | 10/05/2016 18:19:14 | 10/05/2016 18:19:14 | Failed - The operation is not supported on ... | 10/05/2016 18:19:14 |
| Create Snapshot | MingluLiu-CentOS6.8i3... | root      | 10/05/2016 18:19:12 | 10/05/2016 18:19:12 | Completed successfully                         | 10/05/2016 18:19:13 |
| Remove Snapshot | MingluLiu-CentOS6.8i3... | root      | 10/05/2016 18:18:47 | 10/05/2016 18:18:47 | Completed successfully                         | 10/05/2016 18:18:48 |
| Clone VM        | MingluLiu-CentOS6.8i3... | root      | 10/05/2016 18:11:51 | 10/05/2016 18:11:51 | Failed - The operation is not supported on ... | 10/05/2016 18:11:51 |
| Create Snapshot | MingluLiu-CentOS6.8i3... | root      | 10/05/2016 18:11:49 | 10/05/2016 18:11:49 | Completed successfully                         | 10/05/2016 18:11:50 |

10 items

Recent Tasks

| Task            | Target                        | Initiator | Queued              | Started             | Result   | Completed           |
|-----------------|-------------------------------|-----------|---------------------|---------------------|--|---------------------|
| Clone VM        | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:19:14 | 10/05/2016 18:19:14 | Failed - The operation is not supported on ... | 10/05/2016 18:19:14 |
| Create Snapshot | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:19:12 | 10/05/2016 18:19:12 | Completed successfully                         | 10/05/2016 18:19:13 |

events:

MingluLiu-CentOS6.8i386-794-2 - Monitor

Performance Events Tasks Logs Notifications

◀ Previous page ▶ Next page 10 per page Refresh Actions

| Event   | Time                                  | Type |
|---|---------------------------------------|------|
| Virtual machine MingluLiu-CentOS6.8i386-794-2 disks consolidated successfully on localhost.localdomain in cluster localhost.localdomain in ha-datacenter.   | Wednesday, October 05, 2016, 18:18:47 | Info |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is powered off  | Wednesday, October 05, 2016, 18:08:58 | Info |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is stopping   | Wednesday, October 05, 2016, 18:08:58 | Info |
| Warning message on MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter: No operating system was found. If you have an operating system installed, power on the virtual machine. | Wednesday, October 05, 2016, 18:08:26 | Info |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is powered on   | Wednesday, October 05, 2016, 18:07:48 | Info |
| Install the VMware Tools package inside this virtual machine. After the guest operating system starts, select VM > Install VMware Tools... and follow the instructions.                             | Wednesday, October 05, 2016, 18:07:48 | Info |
| Running VMware ESX in a virtual machine will result in degraded performance. Do you want to continue?   | Wednesday, October 05, 2016, 18:07:48 | Info |
| MingluLiu-CentOS6.8i386-794-2 on host localhost.localdomain in ha-datacenter is starting  | Wednesday, October 05, 2016, 18:07:47 | Info |
| Virtual machine MingluLiu-CentOS6.8i386-794-2 disks consolidated successfully on localhost.localdomain in cluster localhost.localdomain in ha-datacenter.   | Wednesday, October 05, 2016, 18:07:47 | Info |
| Failed to revert the execution state of the virtual machine MingluLiu-CentOS6.8i386-794-2 on host localhost.localdomain in compute resource localhost.localdomain to s...                           | Wednesday, October 05, 2016, 17:57:25 | Info |

Recent Tasks

| Task            | Target                        | Initiator | Queued              | Started             | Result  | Completed           |
|-----------------|-------------------------------|-----------|---------------------|---------------------|---|---------------------|
| Power on VM     | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:19:14 | 10/05/2016 18:19:14 | Failed - The operation is not supported on the o... | 10/05/2016 18:19:14 |
| Create Snapshot | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:19:12 | 10/05/2016 18:19:12 | Completed successfully                              | 10/05/2016 18:19:13 |

## MingluLiu-CentOS6.8i386-794-2 is on

https://172.16.55.135/ui/#/host/vms/4

vmware ESXi

root@172.16.55.135 | Help | Search

**MingluLiu-CentOS6.8i386-794-2**

Console Power on Power off Suspend Reset Edit settings Refresh Actions

**MingluLiu-CentOS6.8i386-794-2**

Guest OS: CentOS 4/5/6 (32-bit)  
Compatibility: ESXi 6.0 and later (VM version 11)  
VMware Tools: No  
CPUs: 1  
Memory: 2 GB

CPU: 0 MHz  
MEMORY: 0 B  
STORAGE: 2.16 GB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools. Actions

**General Information**

- Networking: No network information
- VMware Tools: Not installed Actions

**Hardware Configuration**

- CPU: 1 vCPUs
- Memory: 2 GB

**Recent Tasks**

| Task        | Target                  | Initiator | Queued              | Started             | Result                 | Completed           |
|-------------|-------------------------|-----------|---------------------|---------------------|------------------------|---------------------|
| Power On VM | MingluLiu-CentOS6.8i... | root      | 10/05/2016 18:27:19 | 10/05/2016 18:27:19 | Completed successfully | 10/05/2016 18:27:19 |

After:

```
Run: test test
/Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Home/bin/java ...
Enter IP, username, password, and VM name in one line, separated by space:
http://172.16.55.135/MingluLiu-CentOS6.8i386-794-2
CMPE283 HW2 from Minglu Liu
host[0]:
Name = localhost.localdomain
ProductFullName = VMware ESXi
VM Name = MingluLiu-CentOS6.8i386-794-2
GuestOS = CentOS 4/5/6 (32-bit)
Guest State = notRunning
Power State = poweredOn
Host = localhost.localdomain
Snapshot: status = success
Clone: status = error
Migration skipped: only one ESXi host
task[0]: operation name: CreateSnapshot_Task, startTime: Wed Oct 05 18:19:12 PDT 2016, endTime: Wed Oct 05 18:19:13 PDT 2016 status: success
task[1]: operation name: CloneVM_Task, startTime: Wed Oct 05 18:19:14 PDT 2016, endTime: Wed Oct 05 18:19:14 PDT 2016 status: The operation is not supported on the
task[2]: operation name: PowerOnVM_Task, startTime: Wed Oct 05 18:27:19 PDT 2016, endTime: Wed Oct 05 18:27:19 PDT 2016 status: success
```

Summary:

https://172.16.55.135/ui#/host/vms/4

### vmware ESXi

**MingluLiu-CentOS6.8i386-794-2**

Console | Power on | Power off | Suspend | Reset | Edit settings | Refresh | Actions

**MingluLiu-CentOS6.8i386-794-2**

Guest OS: CentOS 4/5/6 (32-bit)  
Compatibility: ESXi 6.0 and later (VM version 11)  
VMware Tools: No  
CPUs: 1  
Memory: 2 GB

CPU: 13 MHz  
MEMORY: 1.07 GB  
STORAGE: 4.17 GB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools.

|                            |                        |
|----------------------------|------------------------|
| <b>General Information</b> |                        |
| Networking                 | No network information |
| VMware Tools               | Not installed          |
| Actions                    |                        |

|                               |         |
|-------------------------------|---------|
| <b>Hardware Configuration</b> |         |
| CPU                           | 1 vCPUs |
| Memory                        | 2 GB    |

### Snapshot:

Manage VM snapshot for MingluLiu-CentOS6.8i386-794-2

Take | Restore | Delete | Delete All | Edit | Refresh

- MingluLiu-CentOS6.8i386-794-2
- snapshotTask
- snapshotTask

You are here

|             |                                       |
|-------------|---------------------------------------|
| Name        | snapshotTask                          |
| Description | take a snapshot                       |
| Created     | Wednesday, October 05, 2016, 18:29:30 |

Close

### Tasks:

MingluLiu-CentOS6.8i386-794-2 - Monitor

Performance | Events | Tasks | Logs | Notifications

Refresh | Actions

| Task            | Target                        | Initiator | Queued              | Started             | Result                                  | Completed           |
|-----------------|-------------------------------|-----------|---------------------|---------------------|---|---------------------|
| Clone VM        | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:29:38 | 10/05/2016 18:29:38 | Failed - The operation is not supported | 10/05/2016 18:29:38 |
| Create Snapshot | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:29:30 | 10/05/2016 18:29:30 | Completed successfully                  | 10/05/2016 18:29:37 |
| Power On VM     | MingluLiu-CentOS6.8i386-794-2 | root      | 10/05/2016 18:27:19 | 10/05/2016 18:27:19 | Completed successfully                  | 10/05/2016 18:27:19 |

### Events:



## vCenter Server:

### Screenshots of VM's summary:

#### VM1:

Minglu-centos7-794-2

Powered Off

Guest OS: CentOS 4/5/6 (64-bit)  
Compatibility: ESXi 5.5 and later (VM version 10)  
VMware Tools: Not running, version:2147483647 (3rd-party/independent)  
DNS Name: centos7/desktop  
IP Addresses: 130.65.159.159  
View all 2 IP addresses  
Host: 130.65.159.11

CPU USAGE 0 Hz  
MEMORY USAGE 0 B  
STORAGE USAGE 4.94 GB

VM Hardware

- CPU: 2 CPU(s), 0 MHz used
- Memory: 3076 MB, 0 MB used
- Hard disk 1: 50 GB
- Network adapter 1: VM Network (disconnected)
- CD/DVD drive 1: Power on VM to connect
- Floppy drive 1: Power on VM to connect
- Video card: 4 MB
- Other: Additional Hardware

VM Storage Policies

Last Checked Date: --

Tags

This list is empty.

#### VM2:

Minglu-ub1404-794-1

Powered Off

Guest OS: Ubuntu Linux (64-bit)  
Compatibility: ESXi 5.5 and later (VM version 10)  
VMware Tools: Not running, version:9349 (Current)  
DNS Name: ub1404desktop  
IP Addresses: 130.65.159.106  
View all 2 IP addresses  
Host: 130.65.159.10

CPU USAGE 0 Hz  
MEMORY USAGE 0 B  
STORAGE USAGE 5.14 GB

VM Hardware

- CPU: 2 CPU(s), 0 MHz used
- Memory: 3072 MB, 0 MB used
- Hard disk 1: 50 GB
- Network adapter 1: VM Network (disconnected)
- CD/DVD drive 1: Power on VM to connect
- Floppy drive 1: Power on VM to connect
- Video card: 4 MB
- Other: Additional Hardware

VM Storage Policies

Last Checked Date: --

Tags

This list is empty.

Minglu-ub1404-794-1 is off, host is 130.65.159.10

after: Minglu-ub1404-794-1 is off, host is 130.65.159.11

```
task task1 = vimUtils.createVm_Task(host[0],nextHost,virtualMachineMovePriority,PriorityPriority,PriorityPriority);  
  
Run: test test  
Up: /Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Home/bin/java ...  
Down: Enter IP, username, password, and VM name in one line, separated by space:  
http://130.65.159.11:9443/vsphere-client/  
CMPE283 HW2 from Minglu Liu  
host[0]:  
Name = 130.65.159.10  
ProductFullName = VMware ESXi  
host[1]:  
Name = 130.65.159.11  
ProductFullName = VMware ESXi  
host[2]:  
Name = 130.65.159.18  
ProductFullName = VMware ESXi  
host[3]:  
Name = 130.65.159.19  
ProductFullName = VMware ESXi  
host[4]:  
Name = 130.65.159.20  
ProductFullName = VMware ESXi  
VM Name = Minglu-ub1404-794-1  
GuestOS = Ubuntu Linux (64-bit)  
Guest State = notRunning  
Power State = poweredOff  
Host = 130.65.159.10  
Snapshot: status = success  
Clone: status = success  
Migrate to 130.65.159.11: status = success  
task[0]: operation name: CreateSnapshot_Task, startTime: Mon Oct 31 14:43:55 PDT 2016, endTime: Mon Oct 31 14:43:57 PDT 2016, state: success  
task[1]: operation name: CloneVM_Task, startTime: Mon Oct 31 14:43:58 PDT 2016, endTime: Mon Oct 31 14:45:33 PDT 2016, state: success  
task[2]: operation name: MigrateVM_Task, startTime: Mon Oct 31 14:45:34 PDT 2016, endTime: Mon Oct 31 14:45:38 PDT 2016, state: success
```

summary:

vSphere Web Client - Minglu-ub1404-794-1 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Minglu-ub1404-794-1

Powered Off

Guest OS: Ubuntu Linux (64-bit)  
Compatibility: ESXi 5.5 and later (VM version 10)  
VMware Tools: Not running, version:9349 (Current)  
DNS Name: ub1404desktop  
IP Addresses: 130.65.159.106  
View all 2 IP addresses  
Host: 130.65.159.11

CPU USAGE 0 Hz  
MEMORY USAGE 0 B  
STORAGE USAGE 5.14 GB

VM Hardware

- CPU: 2 CPU(s), 0 MHz used
- Memory: 3072 MB, 0 MB used
- Hard disk 1: 50 GB
- Network adapter 1: VM Network (disconnected)
- CD/DVD drive 1: Power on VM to connect
- Floppy drive 1: Power on VM to connect
- Video card: 4 MB
- Other: Additional Hardware
- Compatibility: ESXi 5.5 and later (VM version 10)

VM Storage Policies

- VM Storage Policies
- VM Storage Policy Compliance
- Last Checked Date

Tags

| Assigned Tag | Category | Description         |
|--------------|----------|---------------------|
|              |          | This list is empty. |

Recent Tasks

- All
- Running
- Failed

- Migrate virtual machine (Success)
- Minglu-ub1404-794-1 (Success)
- Clone virtual machine (Success)
- Minglu-ub1404-794-1 (Success)
- Create virtual machine snapshot (Success)
- Minglu-ub1404-794-1 (Success)

Work In Progress

Alarms

- All (2) New (2) Acknowledged (0)
- 130.65.159.11 Status of other host hardware objects
- 130.65.159.20 Status of other host hardware objects

## snapshot

The screenshot shows the VMware vSphere Web Client interface. On the left, the vCenter navigation pane displays the hierarchy: COE-CMPE-VCENTE.engr.sjsu.edu > CMPE LABS > CMPE283 SEC3 > workspace > Minglu-ub1404-794-1. The right panel shows the "Manage VM Snapshots" dialog for the selected virtual machine. The dialog title is "Manage VM Snapshots for Minglu-ub1404-794-1". It lists one snapshot named "snapshotTask" with the description "take a snapshot". Other details shown include Created: October 31, 2016 at 2:48:39 PM PDT, Disk Usage: 5.14 GB, and a thumbnail preview of the snapshot.

## tasks:

The screenshot shows the VMware vSphere Web Client interface. The left navigation pane is identical to the previous screenshot. The right panel has the "Monitor" tab selected. The "Tasks" sub-tab is active, showing a list of completed tasks: "Migrate virtual machine" (Status: Completed), "Clone virtual machine" (Status: Completed), and "Create virtual machine snapshot" (Status: Completed). The "Recent Tasks" panel on the right lists these same tasks with green checkmarks. The "Work In Progress" and "Alarms" panels are also visible on the right side.

## events:

vmware vSphere Web Client

Minglu-ub1404-794-1 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Issues Performance Resource Allocation Storage Reports Tasks Events

Description Type Date Time Task

|   |             |                    |                       |
|---|-------------|--------------------|-----------------------|
| Migration from 130.65.159.10 to 130.65... | Warning     | 10/31/16, 2:52 ... |                       |
| Task: Clone virtual machine               | Information | 10/31/16, 2:52 ... | Clone virtual machin  |
| Task: Create virtual machine snapshot     | Information | 10/31/16, 2:52 ... | Create virtual machin |

Date Time: October 31, 2016 at 2:52:13 PM PDT Target: Minglu-ub1404-794-1

User: VSPHERE.LOCAL\cmpe283\_sec3\_student Type: Warning

Description:

October 31, 2016 at 2:52:13 PM PDT Migration of Minglu-ub1404-794-1 from 130.65.159.10 to 130.65.159.11 in CMPE283 SEC3 in CMPE LABS :

Event Type Description:

The virtual machine can be migrated but might lose some functionality after migration is complete

Possible Causes:

- Migrating the virtual machine to the destination resource pool is likely to succeed but some functionality might because the virtual machine did not meet all the compatibility criteria.

Action: Use the VSphere Client to check for warnings at the time of the failure so that you can identify po

Recent Tasks

- All Running Failed
- Migrate virtual machine (Minglu-ub1404-794-1)
- Clone virtual machine (Minglu-ub1404-794-1)
- Create virtual machine snapshot (Minglu-ub1404-794-1)

My Tasks More Tasks

Work In Progress

Alarms

- All (2) New (2) Acknowledged (0)
- 130.65.159.11 Status of other host hardware objects
- 130.65.159.20 Status of other host hardware objects

Minglu-ub1404-794-1 is on, host is 130.65.159.11

After: Minglu-ub1404-794-1 is on, host is 130.65.159.10

```
Run: test test
/Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Home/bin/java ...
Enter IP, username, password, and VM name in one line, separated by space:
http://130.65.159.10/sdk_cope283_sec3_student@vsphere.local:copet-Minglu-ub1404-794-1
CMPE283 HW2 from Minglu Liu
host[0]:
Name = 130.65.159.10
ProductFullName = VMware ESXi
host[1]:
Name = 130.65.159.11
ProductFullName = VMware ESXi
host[2]:
Name = 130.65.159.18
ProductFullName = VMware ESXi
host[3]:
Name = 130.65.159.19
ProductFullName = VMware ESXi
host[4]:
Name = 130.65.159.20
ProductFullName = VMware ESXi
VM Name = Minglu-ub1404-794-1
GuestOS = Ubuntu Linux (64-bit)
Guest State = running
Power State = poweredOn
Host = 130.65.159.11
Snapshot: status = success
Clone: status = success
Migrate to 130.65.159.10: status = success
task[0]: operation name: null, startTime: Mon Oct 31 15:03:48 PDT 2016, endTime: Mon Oct 31 15:03:51 PDT 2016, state: success
task[1]: operation name: CreateSnapshot_Task, startTime: Mon Oct 31 15:05:10 PDT 2016, endTime: Mon Oct 31 15:08:29 PDT 2016, state: success
task[2]: operation name: CloneVM_Task, startTime: Mon Oct 31 15:08:31 PDT 2016, endTime: Mon Oct 31 15:10:10 PDT 2016, state: success
task[3]: operation name: MigrateVM_Task, startTime: Mon Oct 31 15:10:11 PDT 2016, endTime: Mon Oct 31 15:10:30 PDT 2016, state: success
```

summary

The screenshot shows the vSphere Web Client interface. On the left, the navigation tree displays the vCenter server and various data centers and hosts. In the center, the summary details for the VM 'Minglu-ub1404-794-1' are shown. The VM is listed as 'Powered On'. Key statistics include CPU usage (0 Hz), memory usage (1.17 GB), and storage usage (11.29 GB). The VM hardware section lists components like CPU, Memory, Hard disk 1, Network adapter 1 (VM Network), CD/DVD drive 1 (Disconnected), Floppy drive 1 (Disconnected), Video card (4 MB), and Other. The storage policies section shows 'VM Storage Policies' and 'VM Storage Policy Compliance'. The tags section indicates that the list is empty. On the right, the 'Recent Tasks' panel shows a history of operations, all of which have succeeded. The 'Work In Progress' and 'Alarms' panels are also visible.

snapshot

VMware vSphere Web Client - Minglu-ub1404-794-1 Actions

Getting Started Summary Monitor Manage Related Objects

Manage VM Snapshots for Minglu-ub1404-794-1

Name: snapshotTask  
Description: take a snapshot  
Created: October 31, 2016 at 2:42:10 PM PDT  
Disk Usage: 3.02 GB  
Console: Minglu-ub1404-794-1

Revert to | Delete | Delete All | Edit | Close | Edit Settings... | Advanced Configuration

vCenter tree view:

- COE-CMPE-VCENTE.engr.sjsu.edu
  - CMPE LABS
    - CMPE283 SEC3
      - workspace
        - BharathKumar-007
        - demo-123
        - Devanjal-048
        - Jianwei-254
        - Junjie-835
        - mengyuan-137
      - Miao-527
        - Miao-ubuntu1404-527
        - Miao-ubuntu1404-527-clone
    - Minglu-794
      - Minglu-centos7-794-2
      - Minglu-ub1404-794-1
      - Minglu-ub1404-794-1-clone
        - rishiraj-909
        - Satyateja-776
        - Sheng-677
        - weng-047
        - Yassaman-684
        - Yuanyuan-322
        - centos7-template-do\_not\_delete
        - ub1404-template-do\_not\_delete

## tasks

VMware vSphere Web Client - Minglu-ub1404-794-1 Actions

Getting Started Summary Monitor Manage Related Objects

Issues | Performance | Resource Allocation | Storage Reports | Tasks | Events

Tasks

| Task Name                       | Target              | Status    |
|---------------------------------|---------------------|-----------|
| Migrate virtual machine         | Minglu-ub1404-794-1 | Completed |
| Clone virtual machine           | Minglu-ub1404-794-1 | Completed |
| Create virtual machine snapshot | Minglu-ub1404-794-1 | Completed |

Migrate virtual machine

Status: Completed  
Initiator: VSPHERE.LOCAL\cmpe283\_sec3\_student  
Target: Minglu-ub1404-794-1  
Server: COE-CMPE-VCENTE.engr.sjsu.edu

Related events:

|                                    |  |
|------------------------------------|--|
| October 31, 2016 at 3:10:27 PM PDT | Migration of virtual machine Minglu-ub1404-794-1 from 130.65.159.11 , Classroom to 130.65.159.10 , |
|------------------------------------|--|

## events

https://130.65.159.14:9443/vsphere-client/#extensionId=vsphere.core.vm.monitor.events;context=com.vmware.core.model%... ☆

vmware vSphere Web Client Updated at 3:11 PM | cmpe283\_sec3\_student@vsphere.local | Help | Search

vCenter Minglu-ub1404-794-1 Actions

Getting Started Summary Monitor Manage Related Objects

Issues Performance Resource Allocation Storage Reports Tasks Events

Description Type Date Time Task

|  |             |                    |                |
|--|-------------|--------------------|----------------|
| Resource allocation changed                        | Information | 10/31/16, 3:10 ... |                |
| Resource allocation changed                        | Information | 10/31/16, 3:10 ... |                |
| Migrating off host 130.65.159.11                   | Information | 10/31/16, 3:10 ... |                |
| Migrating VM from 130.65.159.11, Classroom to ...  | Information | 10/31/16, 3:10 ... |                |
| Task: Migrate virtual machine                      | Information | 10/31/16, 3:10 ... | Migrate virtua |
| Virtual machine disks consolidation succeeded.     | Information | 10/31/16, 3:10 ... |                |
| Being cloned to Minglu-ub1404-794-1 clone on ...   | Information | 10/31/16, 3:08 ... |                |
| Migration from 130.65.159.11 to 130.65.159.11 a... | Warning     | 10/31/16, 3:08 ... |                |
| Task: Clone virtual machine                        | Information | 10/31/16, 3:08 ... | Clone virtua   |
| Task: Create virtual machine snapshot              | Information | 10/31/16, 3:05 ... | Create virtua  |
| ...  |             |                    |                |

Date Time: October 31, 2016 at 3:11:29 PM PDT Target: Minglu-ub1404-794-1

User: Type: Information

Description:

October 31, 2016 at 3:11:29 PM PDT Alarm 'Virtual machine memory usage' on Minglu-ub1404-794-1::

Recent Tasks All Running Failed

- Migrate virtual machine rishiraj-ubuntu1404-909
- Migrate virtual machine Minglu-ub1404-794-1
- Clone virtual machine Minglu-ub1404-794-1
- Clone virtual machine rishiraj-ubuntu1404-909
- Create virtual machine snapshot rishiraj-ubuntu1404-909
- Remove all snapshots

My Tasks More Tasks

Work In Progress

Alarms

All (2) New (2) Acknowledged (0)

The screenshot shows the vSphere Web Client interface. The left sidebar displays a tree view of vCenter resources under 'COE-CMPE-VCENTE.engr.sjsu.edu'. The main content area is titled 'Minglu-ub1404-794-1' and shows the 'Events' tab selected. A table lists several events, with one specific event highlighted: 'Virtual machine memory usage' on 'Minglu-ub1404-794-1' at 3:11:29 PM PDT. The right sidebar contains sections for 'Recent Tasks' (listing various migrations and clones), 'Work In Progress' (empty), and 'Alarms' (showing 2 new alarms).

### Extra credit 1:

```
//extra credit1 migration
if(hostManagedEntities.length <= 1){
    System.out.println("Migration skipped: only one ESXi host");
} else {
    for (int i = 0; i < hostManagedEntities.length; i++) {
        HostSystem newHost = (HostSystem) hostManagedEntities[i];
        HostSystem nextHost = newHost;
        if (i + 1 < hostManagedEntities.length) {
            nextHost = (HostSystem) hostManagedEntities[i + 1];
        } else {
            nextHost = (HostSystem) hostManagedEntities[0];
        }
        if (newHost.getName().equals(exsiHost.getName())) {
            Task taskM = vm.migrateVM_Task(null, nextHost, VirtualMachineMovePriority.highPriority, null);
            while(!taskM.getTaskInfo().getState().toString().equals("success")){
                while(taskM.getTaskInfo().getState().toString().equals("running")){
                    System.out.print("o");
                }
                System.out.println("x");
            }
            String statusM = taskM.getTaskInfo().getState().toString();
            System.out.println("Migrate to " + nextHost.getName() +": status = "+ statusM);
            break;
        } else {
            Task taskM = vm.migrateVM_Task(null, nextHost, VirtualMachineMovePriority.highPriority, null);
            while(!taskM.getTaskInfo().getState().toString().equals("success")){
                while(taskM.getTaskInfo().getState().toString().equals("running")){
                    System.out.print("o");
                }
                System.out.println("x");
            }
            String statusM = taskM.getTaskInfo().getState().toString();
            System.out.println("Migrate to " + nextHost.getName() +": status = "+ statusM);
            break;
        }
    }
}
```

here will detect migration task state, until it's finished, outer while loop will break; while inner loop will print 'o' when migration task is running, if it's not, will print 'x'. eventually one 'x' will appear after all the 'o's if no interruption. If there is interruption, more than one 'x' will appear.

```
while(!taskM.getTaskInfo().getState().toString().equals("success")){
    while(taskM.getTaskInfo().getState().toString().equals("running")){
        System.out.print("o");
    }
    System.out.println("x");
}
```

here is the stdout:

```
Run: test test

/Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Ho
Enter IP, username, password, and VM name in one line, separat
https://130.65.159.14/sdk cmpe283_sec3_student@vsphere.local c
CMPE283 HW2 from Minglu Liu
host[0]:
Name = 130.65.159.10
ProductFullName = VMware ESXi
host[1]:
Name = 130.65.159.11
ProductFullName = VMware ESXi
host[2]:
Name = 130.65.159.18
ProductFullName = VMware ESXi
host[3]:
Name = 130.65.159.19
ProductFullName = VMware ESXi
host[4]:
Name = 130.65.159.20
ProductFullName = VMware ESXi
VM Name = Minglu-ub1404-794-1
GuestOS = Ubuntu Linux (64-bit)
Guest State = running
Power State = poweredOn
Host = 130.65.159.11
oooooooooooooooooooooooooooooooooooooox
Migrate to 130.65.159.11: status = success
```

## Extra credit 2: ESXi

The screenshot shows the VMware ESXi host interface. The left sidebar (Navigator) has sections for Host, Storage, and Networking. Under Host, the Virtual Machines section is expanded, showing two entries: 'MingluLiu-CentOS6.8i3...' and 'MingluLiu-Ubuntukylin1...'. The right pane displays a table titled 'localhost.localdomain - Virtual Machines' with columns for Virtual machine, Status, Used space, Host name, Host CPU, and Host memory. It lists two items: 'MingluLiu-CentOS6.8i386-794-2' and 'MingluLiu-Ubuntukylin1604-794-1', both in Normal status with 1.24 MB and 1.16 GB used space respectively.

after:

```
Run: test test
/Library/Java/JavaVirtualMachines/jdk1.8.0_73.jdk/Contents/Home/bin/java ...
Enter IP, username, password, and VM folder path in one line, separated by space:
http://172.16.55.135:8225/vmware-vim-service/
OMPE283 HW2 Extra Credit 2 from Minglu Liu
Datacenter folder = ha-datacenter
vm folder = vm
host[0]:
Name = localhost.localdomain
ProductFullName = VMware ESXi

VM[0]:
Name = MingluLiu-CentOS6.8i386-794-2
GuestOS = CentOS 4/5/6 (32-bit)
Guest State = notRunning
Power State = poweredOff
Host = localhost.localdomain
Snapshot: status = success
Clone: status = error
Migration skipped: only one ESXi host
task[0]: operation name: RemoveAllSnapshots_Task, startTime: Thu Oct 06 04:22:08 PDT 2016, endTime: Thu Oct 06 04:22:08 PDT 2016 status: success
task[1]: operation name: CreateSnapshot_Task, startTime: Thu Oct 06 04:24:41 PDT 2016, endTime: Thu Oct 06 04:24:41 PDT 2016 status: success
task[2]: operation name: CloneM_Task, startTime: Thu Oct 06 04:24:42 PDT 2016, endTime: Thu Oct 06 04:24:42 PDT 2016 status: The operation is not supported on the ob

VM[1]:
Name = MingluLiu-Ubuntukylin1604-794-1
GuestOS = Ubuntu Linux (32-bit)
Guest State = notRunning
Power State = poweredOn
Host = localhost.localdomain
Snapshot: status = success
Clone: status = error
Migration skipped: only one ESXi host
task[0]: operation name: RemoveAllSnapshots_Task, startTime: Thu Oct 06 04:22:18 PDT 2016, endTime: Thu Oct 06 04:22:19 PDT 2016 status: success
task[1]: operation name: PowerOnVM_Task, startTime: Thu Oct 06 04:22:35 PDT 2016, endTime: Thu Oct 06 04:22:35 PDT 2016 status: success
task[2]: operation name: CreateSnapshot_Task, startTime: Thu Oct 06 04:24:43 PDT 2016, endTime: Thu Oct 06 04:24:48 PDT 2016 status: success
task[3]: operation name: CloneM_Task, startTime: Thu Oct 06 04:24:49 PDT 2016, endTime: Thu Oct 06 04:24:49 PDT 2016 status: The operation is not supported on the ob
```

## VM1: summary

MingluLiu-Ubuntukylin1604-794-1

Guest OS: Ubuntu Linux (32-bit)  
Compatibility: ESXi 6.0 and later (VM version 11)  
VMware Tools: No  
CPUs: 1  
Memory: 1 GB

CPU: 14 MHz  
MEMORY: 24 MB  
STORAGE: 2.16 GB

VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools.

| General Information |                        | Hardware Configuration |         |
|---------------------|------------------------|------------------------|---------|
| Networking          | No network information | CPU                    | 1 vCPUs |
| VMware Tools        | Not installed          | Memory                 | 1 GB    |

| Task                   | Target                          | Initiator | Queued              | Started             | Result                              | Completed           |
|------------------------|---------------------------------|-----------|---------------------|---------------------|-------------------------------------|---------------------|
| Clone VM               | MingluLiu-Ubuntukylin1604-794-1 | root      | 10/06/2016 04:24:49 | 10/06/2016 04:24:49 | Failed - The operation is not su... | 10/06/2016 04:24:49 |
| Create Snapshot        | MingluLiu-Ubuntukylin1604-794-1 | root      | 10/06/2016 04:24:43 | 10/06/2016 04:24:43 | Completed successfully              | 10/06/2016 04:24:48 |
| Clone VM               | MingluLiu-CentOS6...            | root      | 10/06/2016 04:24:42 | 10/06/2016 04:24:42 | Failed - The operation is not su... | 10/06/2016 04:24:42 |
| Create Snapshot        | MingluLiu-CentOS6...            | root      | 10/06/2016 04:24:41 | 10/06/2016 04:24:41 | Completed successfully              | 10/06/2016 04:24:41 |
| Find By Inventory Path | None                            | root      | 10/06/2016 04:24:40 | 10/06/2016 04:24:40 | Completed successfully              | 10/06/2016 04:24:40 |

## snapshot

Manage VM snapshot for MingluLiu-Ubuntukylin1604-794-1

Take | Restore | Delete | Delete All | Edit | Refresh

snapshotTask

You are here

| Name        | snapshotTask                         |
|-------------|--------------------------------------|
| Description | take a snapshot                      |
| Created     | Thursday, October 06, 2016, 04:24:44 |

Close

## tasks

MingluLiu-Ubuntukylin1604-794-1 - Monitor

Performance Events Tasks Logs Notifications

Refresh Actions

| Task                 | Target            | Initiator | Queued           | Started          | Result   | Completed        |
|----------------------|-------------------|-----------|------------------|------------------|--|------------------|
| Clone VM             | MingluLiu-Ubun... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: orange;">! Failed - The operation is...</span> | 10/06/2016 04... |
| Create Snapshot      | MingluLiu-Ubun... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: green;">✓ Completed successfully</span>        | 10/06/2016 04... |
| Power On VM          | MingluLiu-Ubun... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: green;">✓ Completed successfully</span>        | 10/06/2016 04... |
| Remove All Snapshots | MingluLiu-Ubun... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: green;">✓ Completed successfully</span>        | 10/06/2016 04... |

4 items

Recent Tasks

| Task                   | Target                   | Initiator | Queued              | Started             | Result  | Completed           |
|------------------------|--------------------------|-----------|---------------------|---------------------|---|---------------------|
| Clone VM               | MingluLiu-Ubuntukylin... | root      | 10/06/2016 04:24:49 | 10/06/2016 04:24:49 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:49 |
| Create Snapshot        | MingluLiu-Ubuntukylin... | root      | 10/06/2016 04:24:43 | 10/06/2016 04:24:43 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:48 |
| Clone VM               | MingluLiu-CentOS6....    | root      | 10/06/2016 04:24:42 | 10/06/2016 04:24:42 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:42 |
| Create Snapshot        | MingluLiu-CentOS6....    | root      | 10/06/2016 04:24:41 | 10/06/2016 04:24:41 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:41 |
| Find By Inventory Path | None                     | root      | 10/06/2016 04:24:40 | 10/06/2016 04:24:40 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:40 |

## events

MingluLiu-Ubuntukylin1604-794-1 - Monitor

Performance Events Tasks Logs Notifications

Previous page Next page 10 per page Refresh Actions

| Event   | Time                       | Type                                     |
|---|----------------------------|--|
| MingluLiu-Ubuntukylin1604-794-1 on localhost.localdomain in ha-datacenter is powered off                      | Wednesday, October 05,...  | <span style="color: blue;">i Info</span> |
| MingluLiu-Ubuntukylin1604-794-1 on localhost.localdomain in ha-datacenter is stopping                         | Wednesday, October 05,...  | <span style="color: blue;">i Info</span> |
| Warning message on MingluLiu-Ubuntukylin1604-794-1 on localhost.localdomain in ha-datacenter: No operat...    | Wednesday, October 05,...  | <span style="color: blue;">i Info</span> |
| MingluLiu-Ubuntukylin1604-794-1 on localhost.localdomain in ha-datacenter is powered on                       | Wednesday, October 05,...  | <span style="color: blue;">i Info</span> |
| Running VMware ESX in a virtual machine will result in degraded performance. Do you want to continue?         | Wednesday, October 05,...  | <span style="color: blue;">i Info</span> |
| Warning message on MingluLiu-Ubuntukylin1604-794-1 on localhost.localdomain in ha-datacenter: No operat...    | Thursday, October 06, 2... | <span style="color: blue;">i Info</span> |
| MingluLiu-Ubuntukylin1604-794-1 on localhost.localdomain in ha-datacenter is powered on                       | Thursday, October 06, 2... | <span style="color: blue;">i Info</span> |
| Running VMware ESX in a virtual machine will result in degraded performance. Do you want to continue?         | Thursday, October 06, 2... | <span style="color: blue;">i Info</span> |
| MingluLiu-Ubuntukylin1604-794-1 on host localhost.localdomain in ha-datacenter is starting                    | Thursday, October 06, 2... | <span style="color: blue;">i Info</span> |
| Virtual machine MingluLiu-Ubuntukylin1604-794-1 disks consolidated successfully on localhost.localdomain i... | Thursday, October 06, 2... | <span style="color: blue;">i Info</span> |

10 items

Recent Tasks

| Task            | Target                   | Initiator | Queued              | Started             | Result  | Completed           |
|-----------------|--------------------------|-----------|---------------------|---------------------|---|---------------------|
| Clone VM        | MingluLiu-Ubuntukylin... | root      | 10/06/2016 04:24:49 | 10/06/2016 04:24:49 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:49 |
| Create Snapshot | MingluLiu-Ubuntukylin... | root      | 10/06/2016 04:24:43 | 10/06/2016 04:24:43 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:48 |
| Clone VM        | MingluLiu-CentOS6....    | root      | 10/06/2016 04:24:42 | 10/06/2016 04:24:42 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:42 |
| Create Snapshot | MingluLiu-CentOS6....    | root      | 10/06/2016 04:24:41 | 10/06/2016 04:24:41 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:41 |

## VM2 : summary

MingluLiu-CentOS6.8i386-794-2

Console | Power on | Power off | Suspend | Restart | Edit settings | Refresh | Actions

**MingluLiu-CentOS6.8i386-794-2**

Guest OS CentOS 4/5/6 (32-bit)  
Compatibility ESXi 6.0 and later (VM version 11)  
VMware Tools No  
CPUs 1  
Memory 2 GB

CPU 0 MHz  
MEMORY 0 B  
STORAGE 2.26 MB

**VMware Tools is not installed in this virtual machine. VMware Tools allows detailed guest information to be displayed as well as allowing you to perform operations on the guest OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools.** Actions

**General Information**

|              |                        |
|--------------|------------------------|
| Networking   | No network information |
| VMware Tools | Not installed          |
| Storage      | 1 disk                 |

**Hardware Configuration**

|             |         |
|-------------|---------|
| CPU         | 1 vCPUs |
| Memory      | 2 GB    |
| Hard disk 1 | 16 GB   |

**Recent Tasks**

| Task            | Target                  | Initiator | Queued              | Started             | Result                              | Completed           |
|-----------------|-------------------------|-----------|---------------------|---------------------|-------------------------------------|---------------------|
| Clone VM        | MingluLiu-Ubuntukyll... | root      | 10/06/2016 04:24:49 | 10/06/2016 04:24:49 | Failed - The operation is not su... | 10/06/2016 04:24:49 |
| Create Snapshot | MingluLiu-Ubuntukyll... | root      | 10/06/2016 04:24:43 | 10/06/2016 04:24:43 | Completed successfully              | 10/06/2016 04:24:48 |
| Clone VM        | MingluLiu-CentOS6....   | root      | 10/06/2016 04:24:42 | 10/06/2016 04:24:42 | Failed - The operation is not su... | 10/06/2016 04:24:42 |

## snapshot

Manage VM snapshot for MingluLiu-CentOS6.8i386-794-2

Take | Restore | Delete | Delete All | Edit | Refresh

↳ MingluLiu-CentOS6.8i386-794-2  
↳ snapshotTask  
You are here



|             |                                      |
|-------------|--------------------------------------|
| Name        | snapshotTask                         |
| Description | take a snapshot                      |
| Created     | Thursday, October 06, 2016, 04:24:41 |

## tasks

Close

| MingluLiu-CentOS6.8i386-794-2 - Monitor |                   |           |                  |                  |  |                  |  |
|---|-------------------|-----------|------------------|------------------|--|------------------|--|
| Performance                             | Events            | Tasks     | Logs             | Notifications    |  |                  |  |
| Actions                                 |                   |           |                  |                  |  |                  |  |
| Task                                    | Target            | Initiator | Queued           | Started          | Result   | Completed        |  |
| Clone VM                                | MingluLiu-Cent... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: orange;">! Failed - The operation is...</span> | 10/06/2016 04... |  |
| Create Snapshot                         | MingluLiu-Cent... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: green;">✓ Completed successfully</span>        | 10/06/2016 04... |  |
| Remove All Snapshots                    | MingluLiu-Cent... | root      | 10/06/2016 04... | 10/06/2016 04... | <span style="color: green;">✓ Completed successfully</span>        | 10/06/2016 04... |  |

3 items

| Recent Tasks    |                         |           |                     |                     |   |                     |  |
|-----------------|-------------------------|-----------|---------------------|---------------------|---|---------------------|--|
| Task            | Target                  | Initiator | Queued              | Started             | Result  | Completed           |  |
| Clone VM        | MingluLiu-Ubuntukyli... | root      | 10/06/2016 04:24:49 | 10/06/2016 04:24:49 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:49 |  |
| Create Snapshot | MingluLiu-Ubuntukyli... | root      | 10/06/2016 04:24:43 | 10/06/2016 04:24:43 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:48 |  |
| Clone VM        | MingluLiu-CentOS6...    | root      | 10/06/2016 04:24:42 | 10/06/2016 04:24:42 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:42 |  |

## events

| MingluLiu-CentOS6.8i386-794-2 - Monitor  |        |       |      |               |                            |  |  |
|--|--------|-------|------|---------------|----------------------------|--|--|
| Performance  | Events | Tasks | Logs | Notifications |                            |  |  |
| Actions  |        |       |      |               |                            |  |  |
| Event  |        |       |      |               | Time                       |  | Type                                     |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is powered on                              |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| Install the VMware Tools package inside this virtual machine. After the guest operating system starts, select V... |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| Running VMware ESX in a virtual machine will result in degraded performance. Do you want to continue?              |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| MingluLiu-CentOS6.8i386-794-2 on host localhost.localdomain in ha-datacenter is starting                           |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| Virtual machine MingluLiu-CentOS6.8i386-794-2 disks consolidated successfully on localhost.localdomain in ...      |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is powered off                             |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is stopping                                |        |       |      |               | Wednesday, October 05,...  |  | <span style="color: blue;">i Info</span> |
| Virtual machine MingluLiu-CentOS6.8i386-794-2 disks consolidated successfully on localhost.localdomain in ...      |        |       |      |               | Thursday, October 06, 2... |  | <span style="color: blue;">i Info</span> |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is powered off                             |        |       |      |               | Thursday, October 06, 2... |  | <span style="color: blue;">i Info</span> |
| MingluLiu-CentOS6.8i386-794-2 on localhost.localdomain in ha-datacenter is stopping                                |        |       |      |               | Thursday, October 06, 2... |  | <span style="color: blue;">i Info</span> |

10 items

| Recent Tasks    |                         |           |                     |                     |   |                     |  |
|-----------------|-------------------------|-----------|---------------------|---------------------|---|---------------------|--|
| Task            | Target                  | Initiator | Queued              | Started             | Result  | Completed           |  |
| Clone VM        | MingluLiu-Ubuntukyli... | root      | 10/06/2016 04:24:49 | 10/06/2016 04:24:49 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:49 |  |
| Create Snapshot | MingluLiu-Ubuntukyli... | root      | 10/06/2016 04:24:43 | 10/06/2016 04:24:43 | <span style="color: green;">✓ Completed successfully</span>               | 10/06/2016 04:24:48 |  |
| Clone VM        | MingluLiu-CentOS6....   | root      | 10/06/2016 04:24:42 | 10/06/2016 04:24:42 | <span style="color: orange;">! Failed - The operation is not su...</span> | 10/06/2016 04:24:42 |  |

## Extra credit 2: vCenter Server

Before:

Minglu-ub1404-794-1

Powered On

Ubuntu Linux (64-bit)

ESXi 5.5 and later (VM version 10)

17.46 GB

Minglu-centos7-794-2

Powered Off

CentOS 4/5/6 (64-bit)

Not running, version:2147483647 (3rd-party/Independent)

4.94 GB

after:

The image shows two side-by-side Eclipse IDE windows, both titled "test". Each window displays a large amount of log output in a text-based interface. The log content is identical in both windows, detailing the migration of a virtual machine from one host to another.

The log output includes the following details:

- Enter IP, username, password, and VM folder path in one line, separated by space:  
https://130.65.159.47:8080/cmpelab/sec1/student/vsphere.local:cmpe-601x-CME-Udemy/04PE283 SEC1/workspace/Minglu-794
- CMPE283 HW2 Extra Credit 2 from Minglu Liu
- CMPE LABS/vm/CMPE283 SEC3/workspace/Minglu-794
- Datacenter folder = CMPE LABS
- vm folder = Minglu-794
- host[0]:
  - Name = 130.65.159.10
  - ProductFullName = VMware ESXi
- host[1]:
  - Name = 130.65.159.11
  - ProductFullName = VMware ESXi
- host[2]:
  - Name = 130.65.159.18
  - ProductFullName = VMware ESXi
- host[3]:
  - Name = 130.65.159.19
  - ProductFullName = VMware ESXi
- host[4]:
  - Name = 130.65.159.20
  - ProductFullName = VMware ESXi
- VM[0]:
  - Name = Minglu-centos7-794-2
  - GuestOS = CentOS 4/5/6 (64-bit)
  - Guest State = notRunning
  - Power State = poweredOff
  - Host = 130.65.159.19
  - Snapshot: status = success
  - Clone: status = success
- Migrate to 130.65.159.11: status = success
- task[0]: operation name: RelocateVM\_Task, startTime: Tue Nov 01 14:38:31 PDT 2016, endTime: Tue Nov 01 14:38:34 PDT 2016 status: success
- task[1]: operation name: RemoveAllSnapshots\_Task, startTime: Tue Nov 01 14:40:33 PDT 2016, endTime: Tue Nov 01 14:40:34 PDT 2016 status: success
- task[2]: operation name: CreateSnapshot\_Task, startTime: Tue Nov 01 14:41:48 PDT 2016, endTime: Tue Nov 01 14:41:49 PDT 2016 status: success
- task[3]: operation name: CloneVM\_Task, startTime: Tue Nov 01 14:41:50 PDT 2016, endTime: Tue Nov 01 14:43:00 PDT 2016 status: success
- task[4]: operation name: MigrateVM\_Task, startTime: Tue Nov 01 14:43:02 PDT 2016, endTime: Tue Nov 01 14:43:06 PDT 2016 status: success
- host[4]:
  - Name = 130.65.159.20
  - ProductFullName = VMware ESXi
- VM[0]:
  - Name = Minglu-centos7-794-2
  - GuestOS = CentOS 4/5/6 (64-bit)
  - Guest State = notRunning
  - Power State = poweredOff
  - Host = 130.65.159.19
  - Snapshot: status = success
  - Clone: status = success
- Migrate to 130.65.159.11: status = success
- task[0]: operation name: RelocateVM\_Task, startTime: Tue Nov 01 14:38:31 PDT 2016, endTime: Tue Nov 01 14:38:34 PDT 2016 status: success
- task[1]: operation name: RemoveAllSnapshots\_Task, startTime: Tue Nov 01 14:40:33 PDT 2016, endTime: Tue Nov 01 14:40:34 PDT 2016 status: success
- task[2]: operation name: CreateSnapshot\_Task, startTime: Tue Nov 01 14:41:48 PDT 2016, endTime: Tue Nov 01 14:41:49 PDT 2016 status: success
- task[3]: operation name: CloneVM\_Task, startTime: Tue Nov 01 14:41:50 PDT 2016, endTime: Tue Nov 01 14:43:00 PDT 2016 status: success
- task[4]: operation name: MigrateVM\_Task, startTime: Tue Nov 01 14:43:02 PDT 2016, endTime: Tue Nov 01 14:43:06 PDT 2016 status: success
- VM[1]:
  - Name = Minglu-ub1404-794-1
  - GuestOS = Ubuntu Linux (64-bit)
  - Guest State = running
  - Power State = poweredOn
  - Host = 130.65.159.11
  - Snapshot: status = success
  - Clone: status = success
- Migrate to 130.65.159.11: status = success
- task[0]: operation name: RemoveAllSnapshots\_Task, startTime: Tue Nov 01 14:39:46 PDT 2016, endTime: Tue Nov 01 14:40:05 PDT 2016 status: success
- task[1]: operation name: RemoveAllSnapshots\_Task, startTime: Tue Nov 01 14:39:55 PDT 2016, endTime: Tue Nov 01 14:40:05 PDT 2016 status: success
- task[2]: operation name: CreateSnapshot\_Task, startTime: Tue Nov 01 14:43:08 PDT 2016, endTime: Tue Nov 01 14:46:32 PDT 2016 status: success
- task[3]: operation name: CloneVM\_Task, startTime: Tue Nov 01 14:46:33 PDT 2016, endTime: Tue Nov 01 14:47:51 PDT 2016 status: success
- task[4]: operation name: MigrateVM\_Task, startTime: Tue Nov 01 14:47:52 PDT 2016, endTime: Tue Nov 01 14:47:54 PDT 2016 status: success

VM1: summary

Left navigation pane shows vCenter navigation tree with COE-CMPE-VCENT selected. Under COE-CMPE-VCENT, CMPE LABS is expanded, showing sub-folders like CMPE283 SEC3, workspace, and Minglu-794. Minglu-ub1404-794-1 is selected.

Summary tab is active. VM details for Minglu-ub1404-794-1 are displayed:

- Guest OS: Ubuntu Linux (64-bit)
- Compatibility: ESXi 5.5 and later (VM version 10)
- VMware Tools: Running, version:9349 (Current)
- DNS Name: ub1404desktop
- IP Addresses: 130.65.159.106 (View all 2 IP addresses)
- Host: 130.65.159.11

Resource usage summary:

- CPU USAGE: 0 Hz
- MEMORY USAGE: 307 MB
- STORAGE USAGE: 17.46 GB

VM Hardware section shows:

- CPU: 2 CPU(s), 0 MHz used
- Memory: 3072 MB, 307 MB used
- Hard disk 1: 50 GB
- Network adapter 1: VM Network (connected)

VM Storage Policies section shows:

- VM Storage Policies: --
- VM Storage Policy Compliance: --
- Last Checked Date: --

snapshot

Manage VM Snapshots for Minglu-ub1404-794-1

Snapshots list:

- snapshotTask (selected)
- You are here

snapshotTask details:

|             |  |
|-------------|--|
| Name        | snapshotTask   |
| Description | take a snapshot  |
| Created     | November 1, 2016 at 2:20:07 PM PDT   |
| Disk Usage  | 8.15 GB  |
| Console     |  |

Actions:

- Edit
- Revert to
- Delete
- Delete All
- Close

tasks

Minglu-ub1404-794-1 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Issues Performance Resource Allocation Storage Reports Tasks Events

COE-CMPE-VCENTE.engr.sjsu.edu

Filter

| Task Name                       | Target              | Status   | Initiator | Start Time       | Completion Time  |
|---------------------------------|---------------------|----------|-----------|------------------|------------------|
| Migrate virtual machine         | Minglu-ub1404-794-1 | Compl... | V...      | 11/1/16, 2:47 PM | 11/1/16, 2:47 PM |
| Clone virtual machine           | Minglu-ub1404-794-1 | Compl... | V...      | 11/1/16, 2:46 PM | 11/1/16, 2:47 PM |
| Create virtual machine snapshot | Minglu-ub1404-794-1 | Compl... | V...      | 11/1/16, 2:43 PM | 11/1/16, 2:46 PM |
| Remove all snapshots            | Minglu-ub1404-794-1 | Compl... | V...      | 11/1/16, 2:39 PM | 11/1/16, 2:40 PM |

62 items ◀ Previous Next ▶

## events

Minglu-ub1404-794-1 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Issues Performance Resource Allocation Storage Reports Tasks Events

Filter

| Description                      | Type        | Date Time        | Task                       | Target | User                   |
|----------------------------------|-------------|------------------|----------------------------|--------|------------------------|
| Task: Migrate virtual machine    | Information | 11/1/16, 2:47 PM | Migrate virtual machine    | M...   | VSPHERE.LOCAL\cmpe2... |
| Virtual machine disks consoli... | Information | 11/1/16, 2:47 PM |                            | M...   | VSPHERE.LOCAL\cmpe2... |
| Being cloned to Minglu-ub14...   | Information | 11/1/16, 2:46 PM |                            | M...   | VSPHERE.LOCAL\cmpe2... |
| Migration from 130.65.159.1...   | Warning     | 11/1/16, 2:46 PM |                            | M...   | VSPHERE.LOCAL\cmpe2... |
| Task: Clone virtual machine      | Information | 11/1/16, 2:46 PM | Clone virtual machine      | M...   | VSPHERE.LOCAL\cmpe2... |
| Task: Create virtual machine ... | Information | 11/1/16, 2:43 PM | Create virtual machine ... | M...   | VSPHERE.LOCAL\cmpe2... |
| Virtual machine disks consoli... | Information | 11/1/16, 2:40 PM |                            | M...   | VSPHERE.LOCAL\cmpe2... |
| Virtual machine disks consoli... | Information | 11/1/16, 2:40 PM |                            | M...   | VSPHERE.LOCAL\cmpe2... |

## VM2: summary

Minglu-centos7-794-2 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Powered Off

Launch Console

**Minglu-centos7-794-2**

Guest OS: CentOS 4/5/6 (64-bit)

Compatibility: ESXi 5.5 and later (VM version 10)

VMware Tools: Not running, version:2147483647  
(3rd-party/Independent)

DNS Name: centos7desktop

IP Addresses: 130.65.159.159  
[View all 2 IP addresses](#)

Host: 130.65.159.11

CPU USAGE: 0 Hz

MEMORY USAGE: 0 B

STORAGE USAGE: 4.94 GB



## snapshot

Manage VM Snapshots for Minglu-centos7-794-2

|                           |                        |                                    |
|---------------------------|------------------------|------------------------------------|
| Minglu-centos7-794-2      | Name                   | snapshotTask                       |
| snapshotTask              | Description            | take a snapshot                    |
| You are here              |                        |                                    |
|                           | Created                | November 1, 2016 at 9:35:55 AM PDT |
|                           | Disk Usage             | 4.94 GB                            |
|                           | Console                |                                    |
| <a href="#">Edit</a>      |                        |                                    |
| <a href="#">Revert to</a> | <a href="#">Delete</a> | <a href="#">Delete All</a>         |
|                           |                        | <a href="#">Close</a>              |

## tasks:

Minglu-centos7-794-2 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Issues Performance Resource Allocation Storage Reports Tasks Events

| Task Name                       | Target               | Status     | Initiator | Start Time       | Completion Time  |
|---------------------------------|----------------------|------------|-----------|------------------|------------------|
| Migrate virtual machine         | Minglu-centos7-794-2 | ✓ Compl... | V...      | 11/1/16, 2:43 PM | 11/1/16, 2:43 PM |
| Clone virtual machine           | Minglu-centos7-794-2 | ✓ Compl... | V...      | 11/1/16, 2:41 PM | 11/1/16, 2:43 PM |
| Create virtual machine snapshot | Minglu-centos7-794-2 | ✓ Compl... | V...      | 11/1/16, 2:41 PM | 11/1/16, 2:41 PM |
| Remove all snapshots            | Minglu-centos7-794-2 | ✓ Compl    | V         | 11/1/16, 2:40 PM | 11/1/16, 2:40 PM |
| ::                              |                      |            |           |                  |                  |

Filter

14 items ◀ Previous Next ▶

Migrate virtual machine  
Status: ✓ Completed

## events

Minglu-centos7-794-2 Actions ▾

Getting Started Summary Monitor Manage Related Objects

Issues Performance Resource Allocation Storage Reports Tasks Events

Filter

| Description                      | Type        | Date Time        | Task                       | Target | User                   |
|----------------------------------|-------------|------------------|----------------------------|--------|------------------------|
| Completed the relocation of t... | Information | 11/1/16, 2:43 PM |                            | M..    | VSPHERE.LOCAL\cmpe2... |
| Relocating from 130.65.159....   | Information | 11/1/16, 2:43 PM |                            | M..    | VSPHERE.LOCAL\cmpe2... |
| Task: Migrate virtual machine    | Information | 11/1/16, 2:43 PM | Migrate virtual machine    | M..    | VSPHERE.LOCAL\cmpe2... |
| Being cloned to Minglu-cento...  | Information | 11/1/16, 2:41 PM |                            | M..    | VSPHERE.LOCAL\cmpe2... |
| Migration from 130.65.159.1...   | Warning     | 11/1/16, 2:41 PM |                            | M..    | VSPHERE.LOCAL\cmpe2... |
| Task: Clone virtual machine      | Information | 11/1/16, 2:41 PM | Clone virtual machine      | M..    | VSPHERE.LOCAL\cmpe2... |
| Task: Create virtual machine ... | Information | 11/1/16, 2:41 PM | Create virtual machine ... | M..    | VSPHERE.LOCAL\cmpe2... |
| Virtual machine disks consoli... | Information | 11/1/16, 2:40 PM |                            | M..    | VSPHERE.LOCAL\cmpe2... |