

Grandstream Networks, Inc.

SoftwareUCM – Disk Expansion – KVM



Introduction

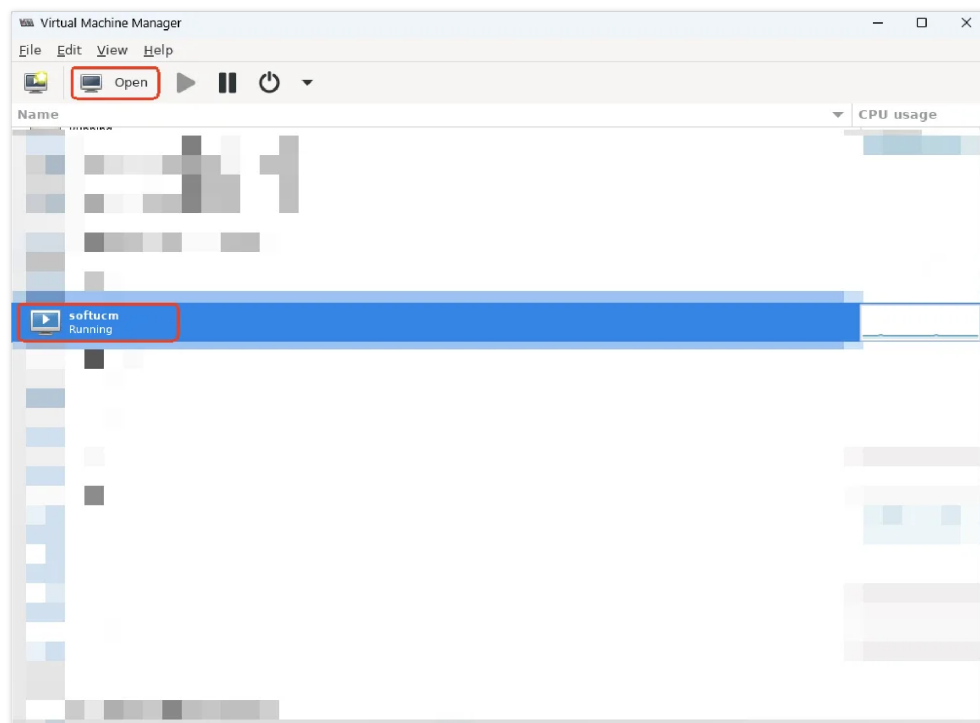
KVM (Kernel-based Virtual Machine) is an open-source virtualization technology built into the Linux kernel, it enables the creation and management of virtual machines. It is commonly used for server virtualization and cloud computing. For disk expansion, KVM allows users to increase the size of virtual disks through tools like `qemu-img` , and then expand the partition within the guest OS to use the added space.

When the SoftwareUCM is installed on the KVM hypervisor, it can have its disk expanded by following the steps below:

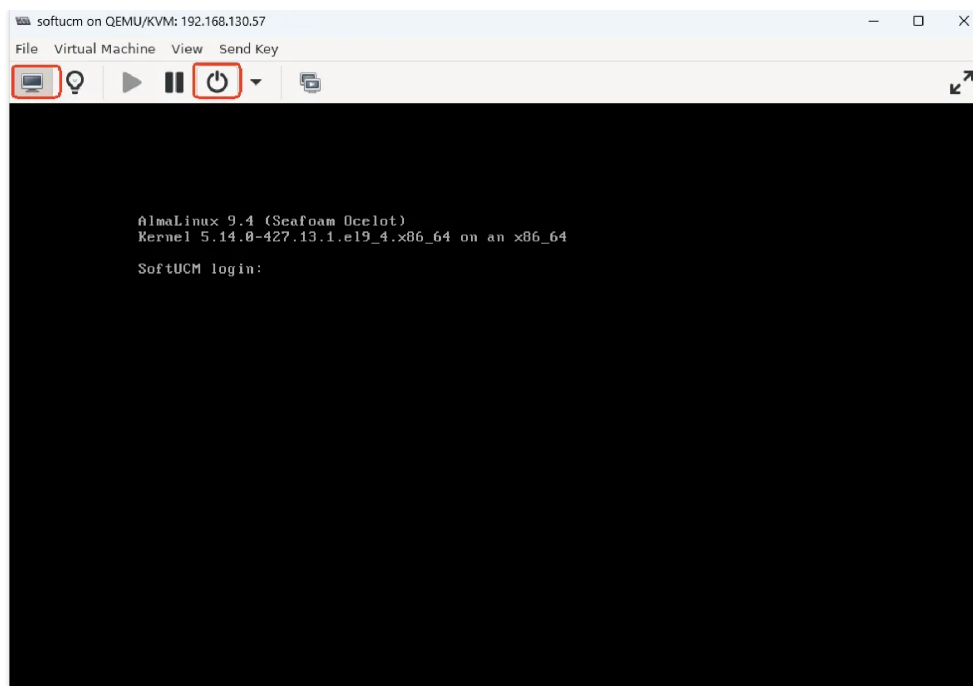
Configuring Disk Expansion

KVM manager Settings

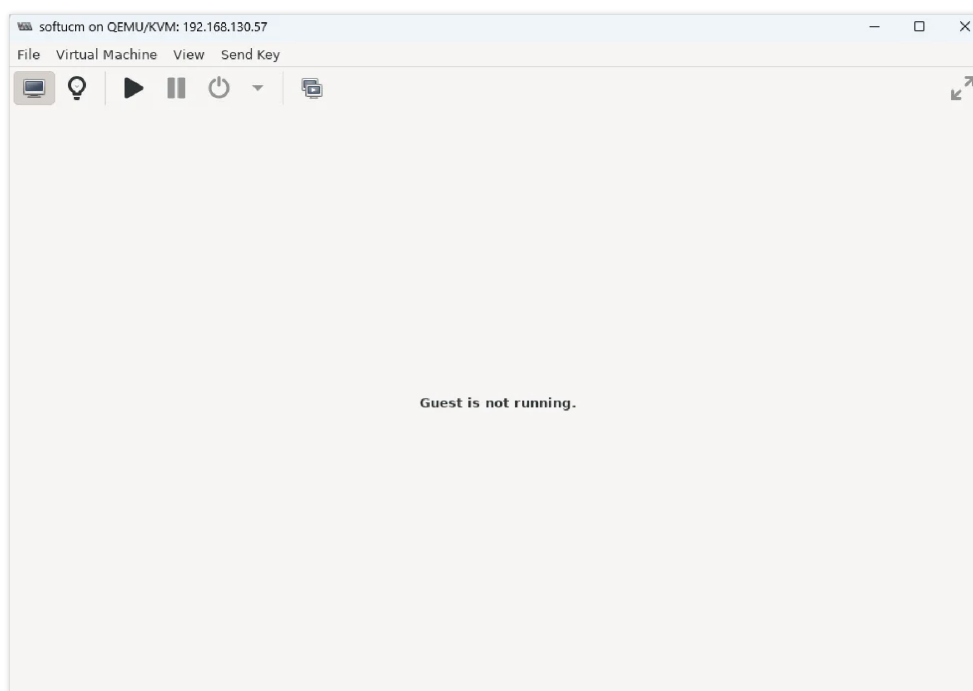
1. Select the virtual machine, and click **Open**



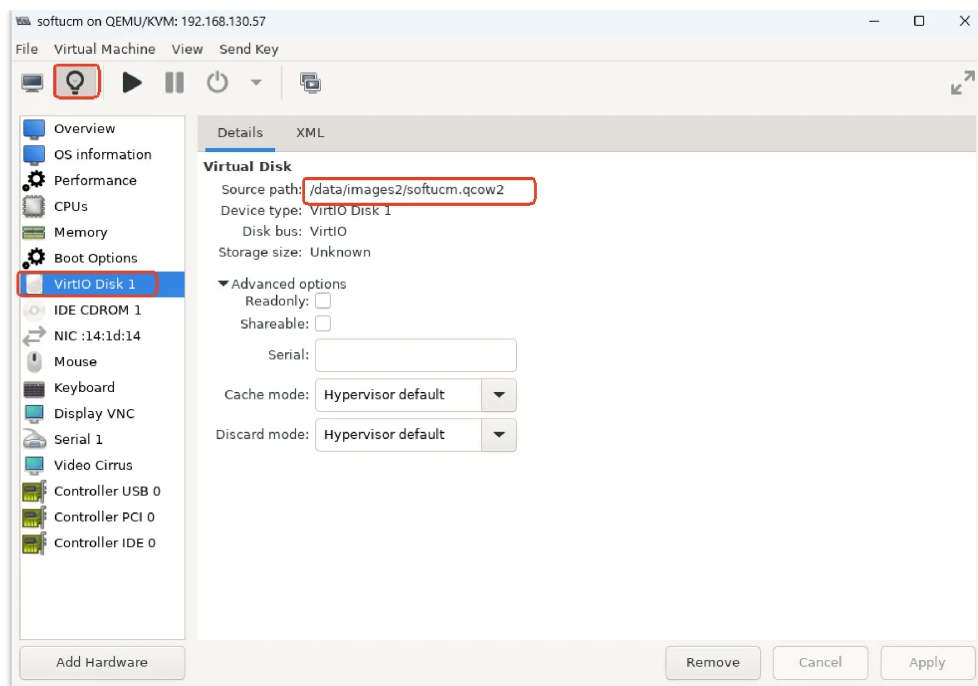
2. Click the **shutdown** button, to stop the SoftwareUCM machine from running



3. Wait for the shutdown to complete



4. Preview the path of the disk file, under Virtual Disk → Source Path

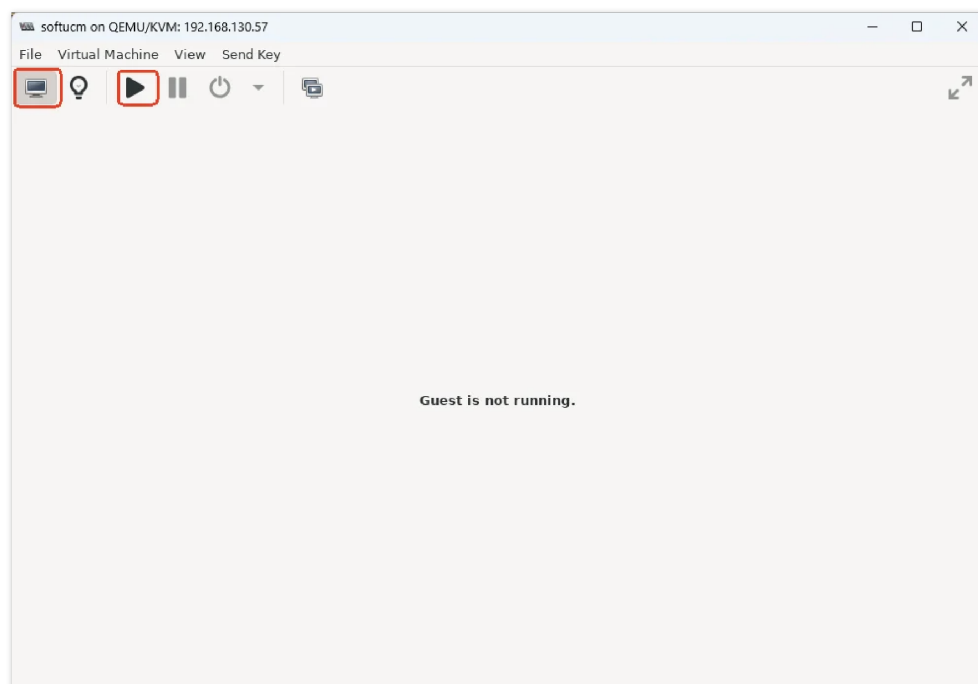


5. Execute shell commands to increase the size of disk files

```
qemu-img resize /data/images2/softucm.qcow2 +10G
```

Expand the Partition in The Virtual Machine

1. Start the virtual machine



2. Log in with the credentials of the user "support"

```

AlmaLinux 9.4 (Seafoam Ocelot)
Kernel 5.14.0-427.13.1.el9_4.x86_64 on an x86_64

SoftwareUCM login: support
Password:
Last login: Mon Dec 30 07:00:05 on tty1

Please enter select:
[1] SoftwareUCM Management.
[2] System Information.
[3] System Settings.
[4] Maintenance.
[5] API Configuration.
[0] Exit.

```

User Support Credentials

3. In single-tenant mode, wait for the instance to be initialized, then select **SoftwareUCM Management** → **List SoftwareUCMs** to view the instance status.

```

Please enter select:
[1] SoftwareUCM Management.
[2] System Information.
[3] System Settings.
[4] Maintenance.
[5] API Configuration.
[0] Exit.
1

Please enter select:
[1] List SoftwareUCMs.
[2] Create SoftwareUCM.
[3] Delete SoftwareUCM.
[4] Restart SoftwareUCM.
[5] Network Details.
[6] Network Settings.
[7] Show Resource Usage.
[8] Change Resource Limit.
[9] Reset Factory Password.
[10] Factory Reset.
[11] Modify Remark.
[12] Disk Management.
[13] Migrate SoftwareUCM.
[0] Exit.
1

Current Mode: Single Tenant

SoftwareUCM Information:
  Instance Name: ucm1
  Remark:
  Status: running
  Version: 1.0.32.4
  Admin Portal: https://172.16.138.163:8089
  Initial Username: admin
  Initial Password: SoftUCM@admin

```

List software UCM instance

4. Select **Maintenance** → **Disk Expansion** to expand the partition.

```

Please enter select:
(1) SoftwareUCH Management.
(2) System Information.
(3) System Settings.
(4) Maintenance.
(5) API Configuration.
(0) Exit.
1

Please enter select:
(1) List SoftwareUCHs.
(2) Create SoftwareUCH.
(3) Delete SoftwareUCH.
(4) Restart SoftwareUCH.
(5) Network Details.
(6) Network Settings.
(7) Show Resource Usage.
(8) Change Resource Limit.
(9) Reset Factory Password.
(10) Factory Reset.
(11) Modify Remark.
(12) Disk Management.
(13) Migrate SoftwareUCH.
(0) Exit.
12

Please enter select:
(1) List Disks.
(2) Disk Expansion (only for non-RAID mount points of virtual machines).
(0) Exit.
2

Please select a storage disk:
(1) VBOX HARDDISK: sda (/container 00 Avail/19.9GB Total).
(2) VBOX HARDDISK: sdb (/container1 19.9GB Avail/19.9GB Total).

```

Maintenance Settings

5. Select the disk that requires expansion.

```

Please enter select:
(1) List Disks.
(2) Disk Expansion (only for non-RAID mount points of virtual machines).
(0) Exit.
2

Please select a storage disk:
(1) VBOX HARDDISK: sda (/container 00 Avail/19.9GB Total).
(2) VBOX HARDDISK: sdb (/container1 19.9GB Avail/19.9GB Total).
1

When using Single Tenant mode, expanding the disk will restart the SoftwareUCH instance. Do you want to continue?[y/n] y

Disk expansion success.

+-----+-----+-----+-----+-----+-----+-----+
| Device | Model | State | Mounted on | Total | Avail | Allocation details |
+-----+-----+-----+-----+-----+-----+-----+
| sda    | VBOX HARDDISK | Active | /container (default) | 29.9GB | 0B | firmware(844.3MB) ucal(19.0GB) |
| sdb    | VBOX HARDDISK | Active | /container1 | 19.9GB | 19.9GB | |
+-----+-----+-----+-----+-----+-----+-----+

Restarted SoftwareUCH instance ucal successfully.

Waiting for SoftwareUCH instance initialization to complete.
The SoftwareUCH instance ucal is already accessible.

Instance Name: ucal
Admin Portal: https://172.16.138.163:8809

```