

# Install Ruckus Virtual SmartZone Controller on Proxmox

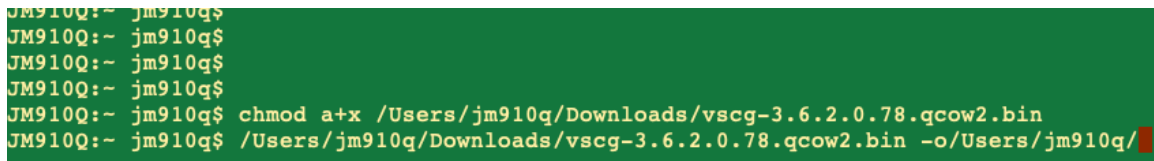
Download the appropriate version you want to install from Ruckus (support.ruckuswireless.com/software) as an KVM .qcow2 file.

Older versions (3.6 and below) download as a .bin that needs to be extracted as shown in the images below. Version 5 and above do not need to be converted if the downloaded file is already in .qcow2 format.

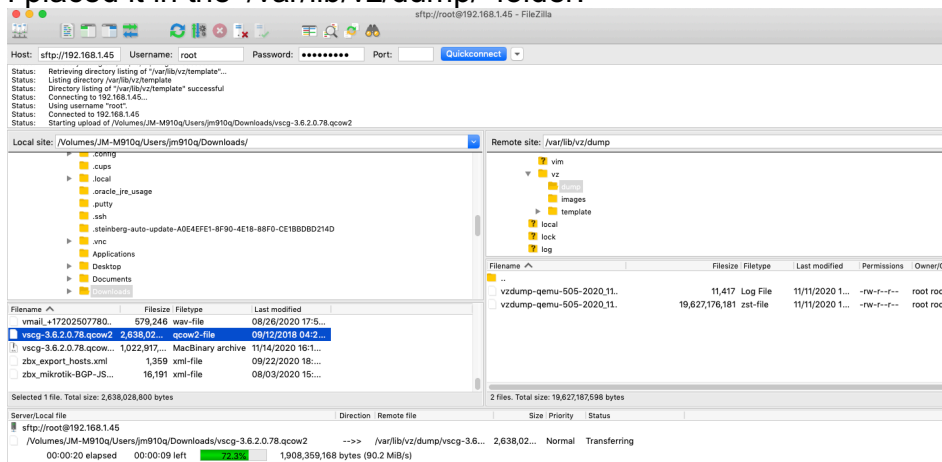


This is the only extraction method that worked out of five unzip extraction programs, on Mac Mojave 10.14 using CLI, should work on most Macs. Take ownership and extract the .bin file to a location using:

```
chmod a+x (.bin file location)/vscg.3.6.2.0.78.qcow2.bin  
(.bin file location)/vscg.3.6.2.0.78.qcow2.bin -o(destination file location)
```



Transfer the .qcow file to Proxmox using Filezilla. I placed it in the '/var/lib/vz/dump/' folder.



Create your Ruckus VM using the following steps.  
I'm using VM ID '600' and Name 'Ruckus'.

The screenshot shows the 'Create: Virtual Machine' dialog box with the 'General' tab selected. The fields are filled with the following information:

Node:	prox-esxi-1	Resource Pool:	
VM ID:	600		
Name:	Ruckus		

At the bottom, there is a 'Help' button, an 'Advanced' checkbox (unchecked), and 'Back' and 'Next' buttons.

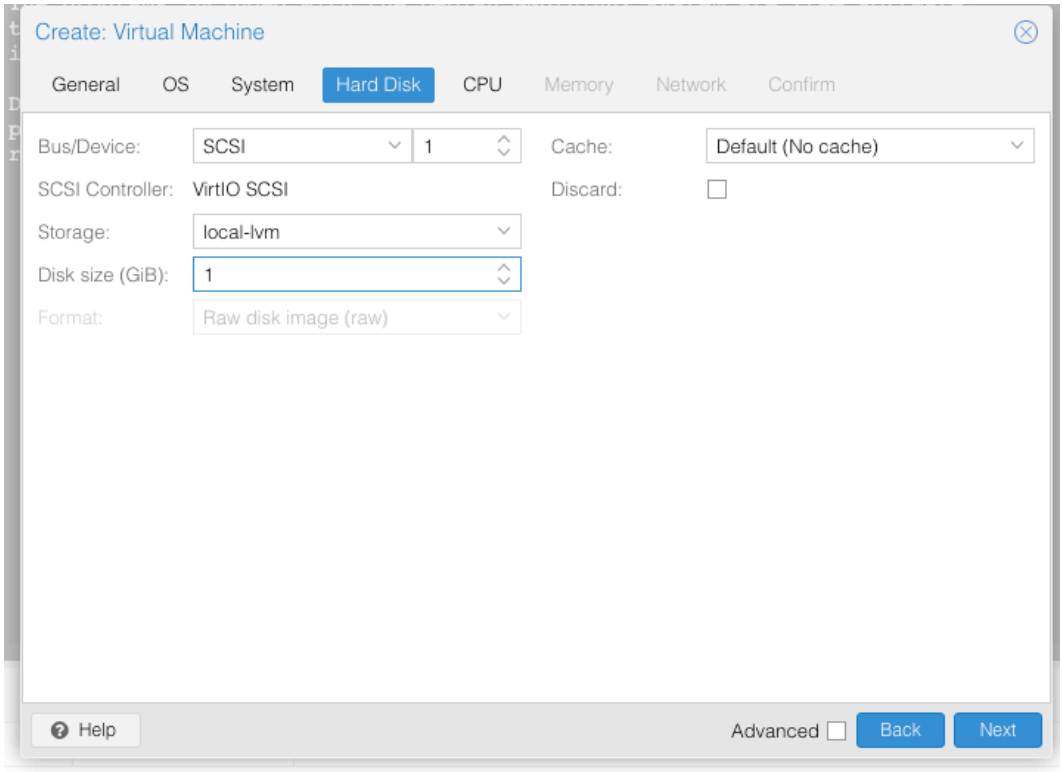
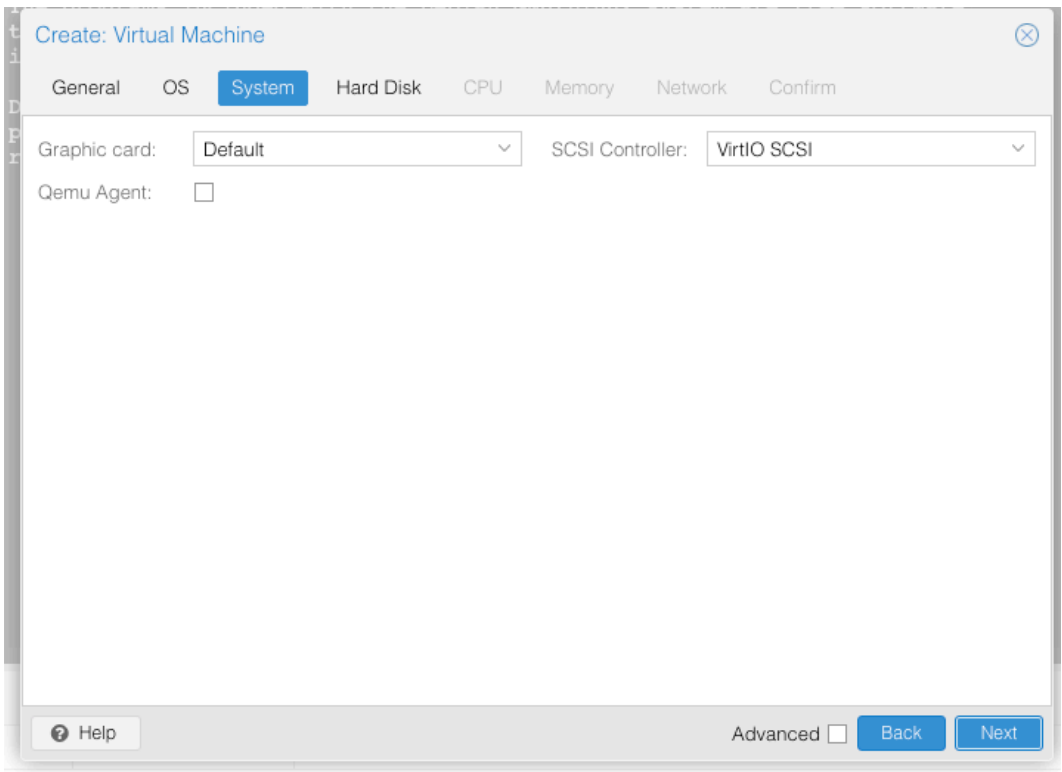
The screenshot shows the 'Create: Virtual Machine' dialog box with the 'OS' tab selected. The options are as follows:

- Use CD/DVD disc image file (iso)
  - Storage: local
  - ISO image:
- Use physical CD/DVD Drive
- Do not use any media

Guest OS configuration:

Guest OS:	
Type:	Linux
Version:	5.x - 2.6 Kernel

At the bottom, there is an 'Advanced' checkbox (unchecked) and 'Back' and 'Next' buttons.



Create: Virtual Machine

General OS System Hard Disk CPU Memory Network Confirm

Sockets: 1 Type: Default (kvm64)  
Cores: 4 Total cores: 4

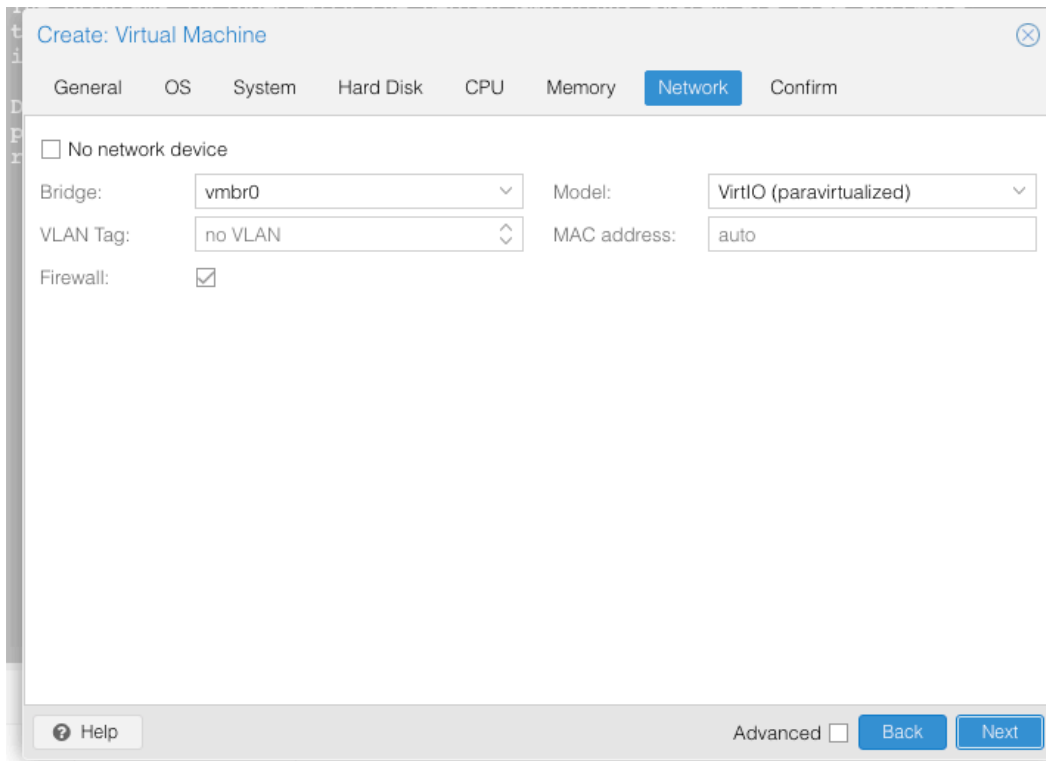
Help Advanced  Back Next

Create: Virtual Machine

General OS System Hard Disk CPU Memory Network Confirm

Memory (MiB): 16384

Help Advanced  Back Next

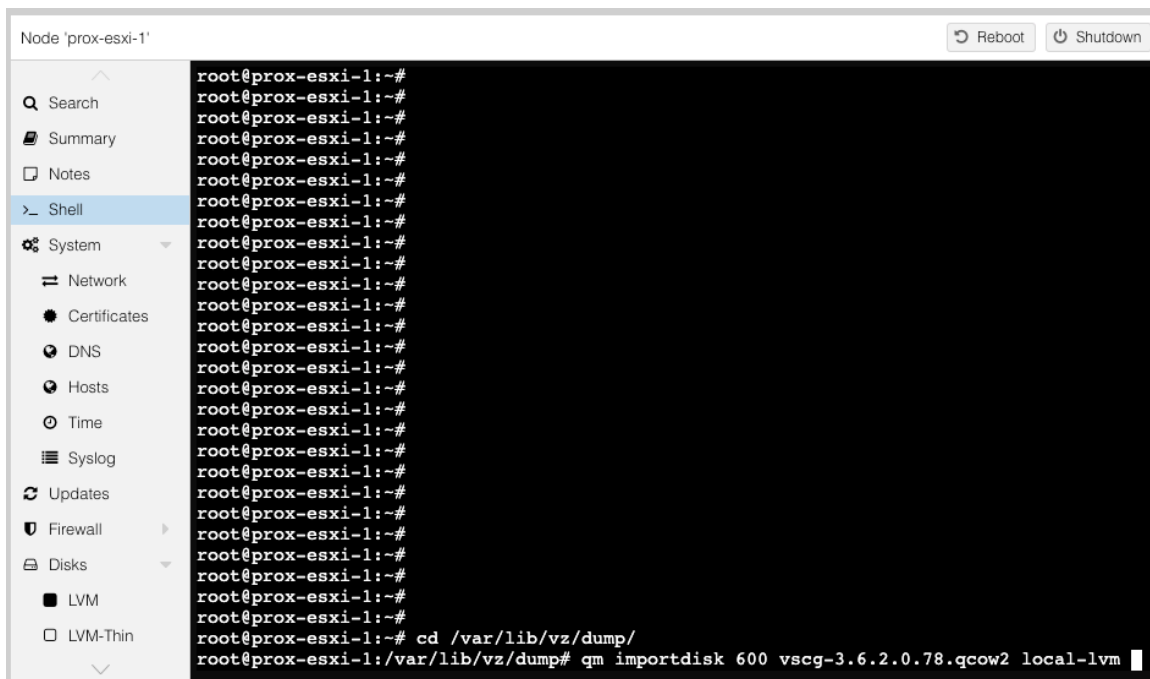


From the Proxmox Shell, navigate to the directory using:

```
cd /var/lib/vz/dump/
```

Import the VM using the command:

```
qm importdisk 600 vscg-3.6.2.0.78.qcow2 local-lvm
```



# The disk should be successfully imported.

Node 'prox-esxi-1' Reboot Shutdown Shell Bulk Actions

- Search
- Summary
- Notes
- Shell
- System
  - Network
  - Certificates
  - DNS
  - Hosts
  - Time
  - Syslog
  - Updates
  - Firewall
  - Disks
    - LVM
    - LVM-Thin

```
transferred: 80154827161 bytes remaining: 27219355239 bytes total: 107374182400 bytes progression: 74.65 %
transferred: 81260781240 bytes remaining: 26113401160 bytes total: 107374182400 bytes progression: 75.68 %
transferred: 82377472737 bytes remaining: 24996709663 bytes total: 107374182400 bytes progression: 76.72 %
transferred: 83483426816 bytes remaining: 23890755584 bytes total: 107374182400 bytes progression: 77.75 %
transferred: 84600118312 bytes remaining: 22774064088 bytes total: 107374182400 bytes progression: 78.79 %
transferred: 85716809809 bytes remaining: 21657372591 bytes total: 107374182400 bytes progression: 79.83 %
transferred: 86822763888 bytes remaining: 20551418512 bytes total: 107374182400 bytes progression: 80.86 %
transferred: 87907243130 bytes remaining: 19466939270 bytes total: 107374182400 bytes progression: 81.87 %
transferred: 89023934627 bytes remaining: 18350247773 bytes total: 107374182400 bytes progression: 82.91 %
transferred: 90140626124 bytes remaining: 17233556276 bytes total: 107374182400 bytes progression: 83.95 %
transferred: 91246580203 bytes remaining: 16127602197 bytes total: 107374182400 bytes progression: 84.98 %
transferred: 92363271700 bytes remaining: 15010910700 bytes total: 107374182400 bytes progression: 86.02 %
transferred: 93469225779 bytes remaining: 13904956621 bytes total: 107374182400 bytes progression: 87.05 %
transferred: 94585917276 bytes remaining: 12788265124 bytes total: 107374182400 bytes progression: 88.09 %
transferred: 95691871354 bytes remaining: 11682311046 bytes total: 107374182400 bytes progression: 89.12 %
transferred: 96808562851 bytes remaining: 10565619549 bytes total: 107374182400 bytes progression: 90.16 %
transferred: 97914516930 bytes remaining: 9459665470 bytes total: 107374182400 bytes progression: 91.19 %
transferred: 99031208427 bytes remaining: 8342973973 bytes total: 107374182400 bytes progression: 92.23 %
transferred: 100137162506 bytes remaining: 7237019894 bytes total: 107374182400 bytes progression: 93.26 %
transferred: 101253854003 bytes remaining: 6120328397 bytes total: 107374182400 bytes progression: 94.30 %
transferred: 102370545500 bytes remaining: 5003636900 bytes total: 107374182400 bytes progression: 95.34 %
transferred: 103487236997 bytes remaining: 3886945403 bytes total: 107374182400 bytes progression: 96.38 %
transferred: 104646878167 bytes remaining: 2772304233 bytes total: 107374182400 bytes progression: 97.46 %
transferred: 105752832245 bytes remaining: 1621350155 bytes total: 107374182400 bytes progression: 98.49 %
transferred: 106890998579 bytes remaining: 483183821 bytes total: 107374182400 bytes progression: 99.55 %
transferred: 107374182400 bytes remaining: 0 bytes total: 107374182400 bytes progression: 100.00 %
transferred: 107374182400 bytes remaining: 0 bytes total: 107374182400 bytes progression: 100.00 %
Successfully imported disk as 'unused0:local-lvm:vm-600-disk-1'
root@prox-esxi-1: /var/lib/vz/dump#
```

We're going to add the Ruckus QCow2 Hard Disk to Proxmox, use it as our VMs main hard drive and delete the Ruckus VM's original hard drive that was created during setup.

**Importing** - Click on your 'Ruckus VM' & then click on 'Hardware'.

There will be a newly added Unused Disk.

Click on the Unused Disk & then click 'Add' in the lower right dialog box.

The screenshot shows the Proxmox VE interface for a Virtual Machine named '600 (Ruckus) on node 'prox-esxi-1''. The 'Hardware' tab is selected, displaying a list of hardware components:

Component	Configuration
Memory	16.00 GiB
Processors	8 (2 sockets, 4 cores)
BIOS	Default (SeaBIOS)
Display	Default
Machine	Default (i440fx)
SCSI Controller	VirtIO SCSI
CD/DVD Drive (ide2)	none,media=cdrom
Hard Disk (scsi1)	local-lvm:vm-600-disk-0,size=1G
Network Device (net0)	virtio=82:70:F8:74:55:F6,bridge=vbr0,firewall=1
Unused Disk 0	local-lvm:vm-600-disk-1

An 'Add: Unused Disk' dialog box is open, showing the following configuration:

- Bus/Device: SCSI
- Cache: Default (No cache)
- SCSI Controller: VirtIO SCSI
- Discard:
- Disk image: local-lvm:vm-600-disk-1

The dialog box includes a 'Help' button, an 'Advanced' checkbox, and an 'Add' button.

## Deleting

Click on the other disk and click 'Detach'

The screenshot shows the Proxmox VE interface for the same Virtual Machine. The 'Hardware' tab is selected, and the 'Hard Disk (scsi1)' component is highlighted. The 'Detach' button is visible in the top toolbar, indicating the process of removing the original disk.

Component	Configuration
Memory	16.00 GiB
Processors	8 (2 sockets, 4 cores)
BIOS	Default (SeaBIOS)
Display	Default
Machine	Default (i440fx)
SCSI Controller	VirtIO SCSI
CD/DVD Drive (ide2)	none,media=cdrom
Hard Disk (scsi0)	local-lvm:vm-600-disk-1,size=100G
Hard Disk (scsi1)	local-lvm:vm-600-disk-0,size=1G
Network Device (net0)	virtio=82:70:F8:74:55:F6,bridge=vbr0,firewall=1

The original drive will now become the 'Unused Disk 0'.  
You can delete this unused disk by clicking 'Remove'.

Virtual Machine 600 (Ruckus) on node 'prox-esxi-1' ▶ Start

Summary Add Remove Edit Resize disk Move disk Revert

- Console
- Hardware**
- Cloud-Init
- Options
- Task History
- Monitor
- Backup
- Replication
- Snapshots
- Firewall
- Permissions

Memory	16.00 GiB
Processors	8 (2 sockets, 4 cores)
BIOS	Default (SeaBIOS)
Display	Default
Machine	Default (i440fx)
SCSI Controller	VirtIO SCSI
CD/DVD Drive (ide2)	none,media=cdrrom
Hard Disk (scsi0)	local-vm:vm-600-disk-1,size=100G
Network Device (net0)	virtio=82:70:F8:74:55:F6,bridge=vibr0,firewall=1
<b>Unused Disk 0</b>	local-vm:vm-600-disk-0

Change the boot disk.  
Located in Ruckus VM -> Options -> Bootloader  
Set Boot Device 1 to SCSI 0

Virtual Machine 600 (Ruckus) on node 'prox-esxi-1' ▶ Start ⏻ Shutdown > C

Summary Edit Revert

- Console
- Hardware
- Cloud-Init
- Options**
- Task History
- Monitor
- Backup
- Replication
- Snapshots
- Firewall
- Permissions

Name	Ruckus
Start at boot	No
Start/Shutdown order	order=any
OS Type	Linux 5.x - 2.6 Kernel
Boot Order	Disk 'scsi1', CD-ROM, Network
Use tablet for pointer	Yes
Hotplug	Disk, Network, USB
ACPI support	Yes
KVM hardware virtualization	Yes
Freeze CPU at startup	No
Use local time for RTC	No
RTC start date	now
SMBIOS settings (type1)	uuid=27a43970-09e9-49ec-9668-015bb3dfc396
QEMU Guest Agent	Default (Disabled)
Protection	No
Spice Enhancements	none
VM State storage	Automatic

**Edit: Boot Order**

Boot device 1: scsi1

Boot device 2: Disk 'scsi0'

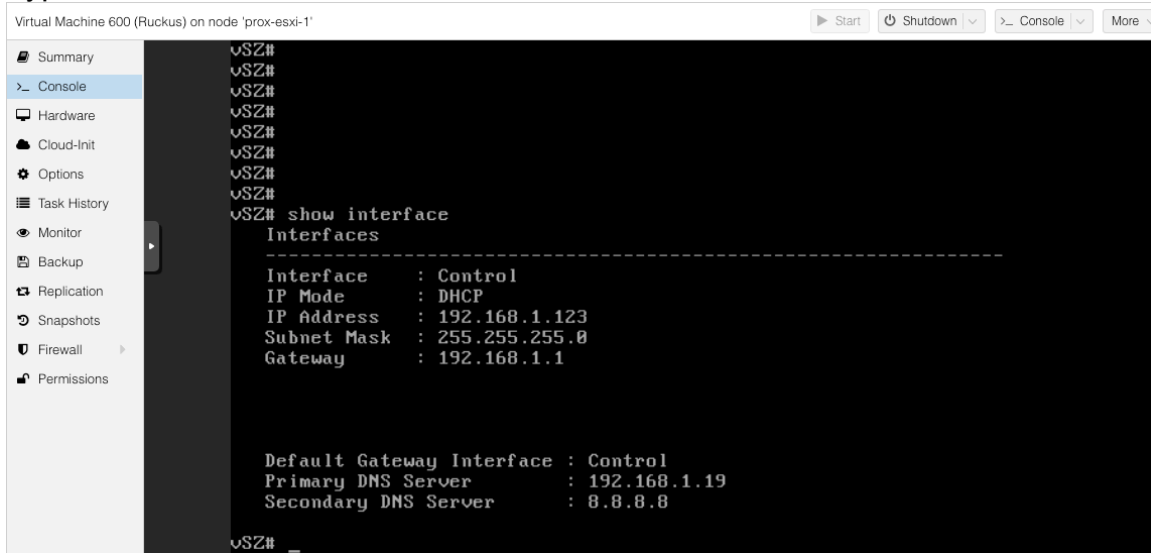
Boot device 3: CD-ROM

Network

OK Reset



Login to the VMs console using admin / admin.  
Type enable, password – admin.  
Type 'show interface'



This shows your DHCP obtained IP Address for your Ruckus Virtual SmartZone Controller. Proceed to the address above using:  
<https://<ip-address>:8443>

