Ivanti Connect Secure Deployment on Proxmox

Beta

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Revision History

The following table lists the revision history for this document:

Document Revision	Date	Description
1.0	July 2026	First version for 25.1.3.0 Beta

Introduction

This document provides a detailed guide for deploying Ivanti Connect Secure (ICS) on Proxmox, including prerequisites for secure boot with Ivanti OVMF firmware, steps to upload and prepare the ICS image, instructions to create and configure the ICS virtual machine with appropriate hardware and network settings, initialization using a configuration ISO, and reference configurations for firmware and image management.

Prerequisites

Ivanti Secure Boot

To boot Ivanti virtual ICS in secure boot mode, perform the following steps on compute nodes.

1. Extract Ivanti released OVMF firmware and VARS file from KVM ZIP artifact.

```
$ ls -1
ISA-V-KVM-ICS-25.1.3.0-15737.1-VT-kvm.img.gz
ISA-V-KVM-ICS-25.1.3.0-15737.1.zip
kvm_template.xml
OVMF_CODE.secboot.ivanti.fd
OVMF_VARS.secboot.ivanti.fd
```

2. Ivanti released OVMF firmware and VARS file needs to be copied to /usr/share/pve-edk2-firmware directory of compute nodes.

```
root@proxmox:/usr/share/pve-edk2-firmware# ls *ivanti*
OVMF_CODE.secboot.ivanti.fd  OVMF_VARS_4M.ivanti.fd
```

3. Symlink default secboot OVMF files to point to Ivanti OVMF files. It should be as follows.

```
root@bngprox1:/usr/share/pve-edk2-firmware# ls -l | grep -i ivanti
lrwxrwxrwx 1 root root      27 May 27 15:00 OVMF_CODE_4M.secboot.fd ->
OVMF_CODE.secboot.ivanti.fd
-rw-r--r-- 1 root root 3653632 May 27 14:58 OVMF_CODE.secboot.ivanti.fd
-rw-r--r-- 1 root root  540672 May 27 14:58 OVMF_VARS_4M.ivanti.fd
lrwxrwxrwx 1 root root      22 May 27 15:01 OVMF_VARS_4M.ms.fd ->
OVMF_VARS_4M.ivanti.fd
```

4. Since OVMF contents is being modified, disable automatic update of OVMF.

```
apt-mark hold pve-edk2-firmware-ovmf
```

Upload ICS Image to Proxmox

To upload the ICS image on Proxmox, perform the following steps:

1. Extract ICS image from KVM ZIP artifact.

```
$ ls -1
ISA-V-KVM-ICS-25.1.3.0-15737.1-VT-kvm.img.gz
ISA-V-KVM-ICS-25.1.3.0-15737.1.zip
kvm_template.xml
OVMF_CODE.secboot.ivanti.fd
OVMF_VARS.secboot.ivanti.fd
```

2. Unzip KVM image file.

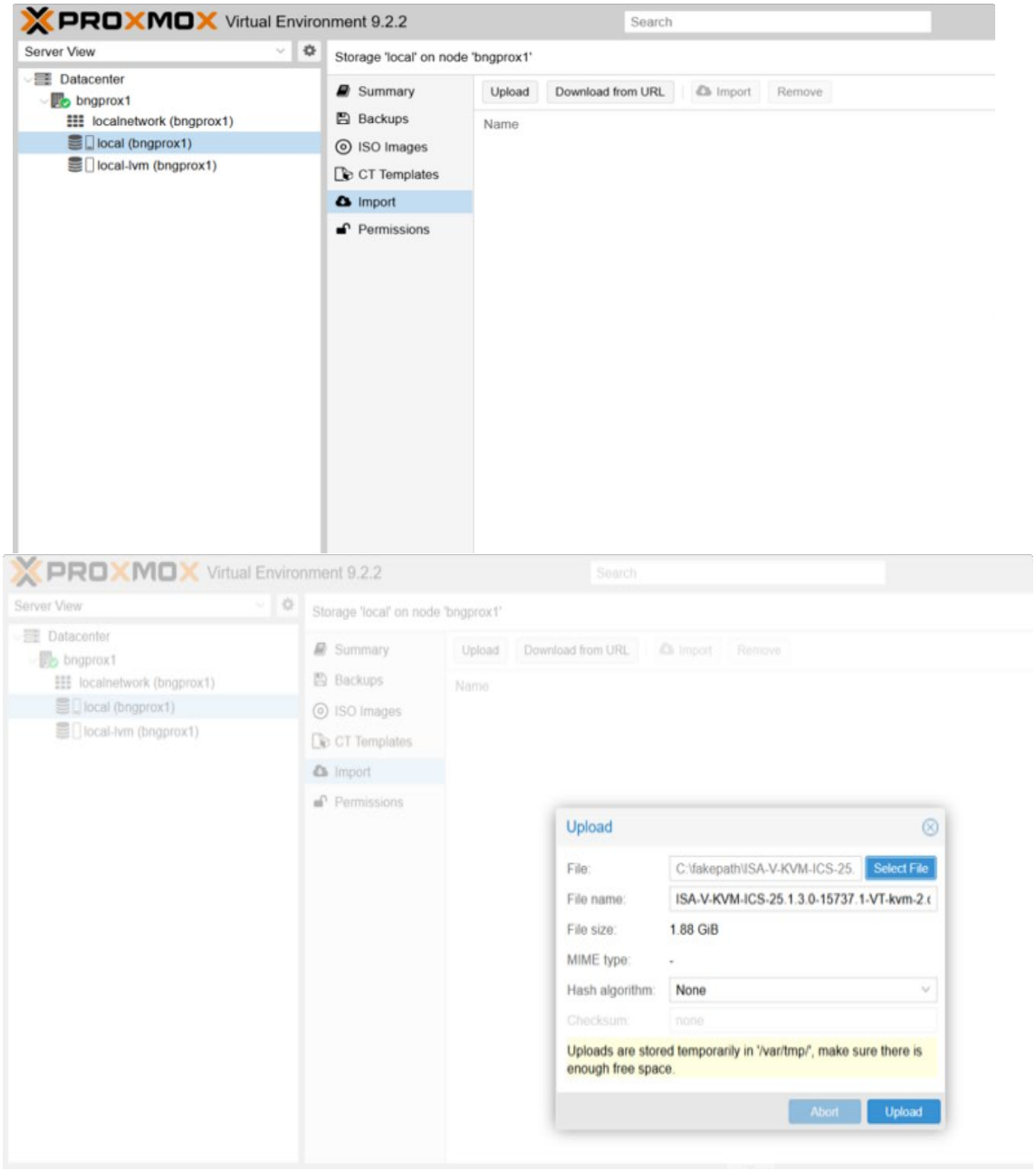
```
$ ls -1
ISA-V-KVM-ICS-25.1.3.0-15737.1-VT-kvm.img
```

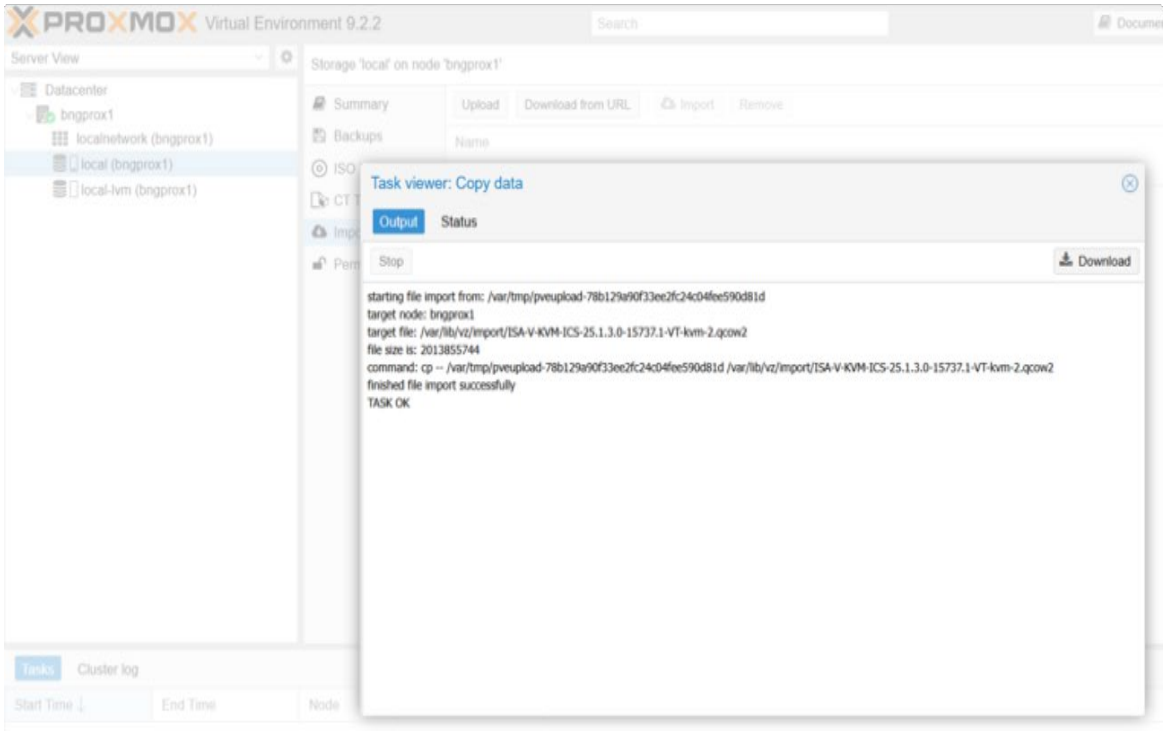
3. Rename .img file to .qcow2. Proxmox identifies file type based on extension.

Note: It is important to rename .img to .qcow2. Without this step, proxmox identifies image as raw and VM will not boot.

```
$ mv ISA-V-KVM-ICS-25.1.3.0-15737.1-VT-kvm.img ISA-V-KVM-ICS-25.1.3.0-15737.1-VT-kvm.qcow2
$ ls -1
ISA-V-KVM-ICS-25.1.3.0-15737.1-VT-kvm.qcow2
```

4. Upload ICS qcow2 image to Proxmox.

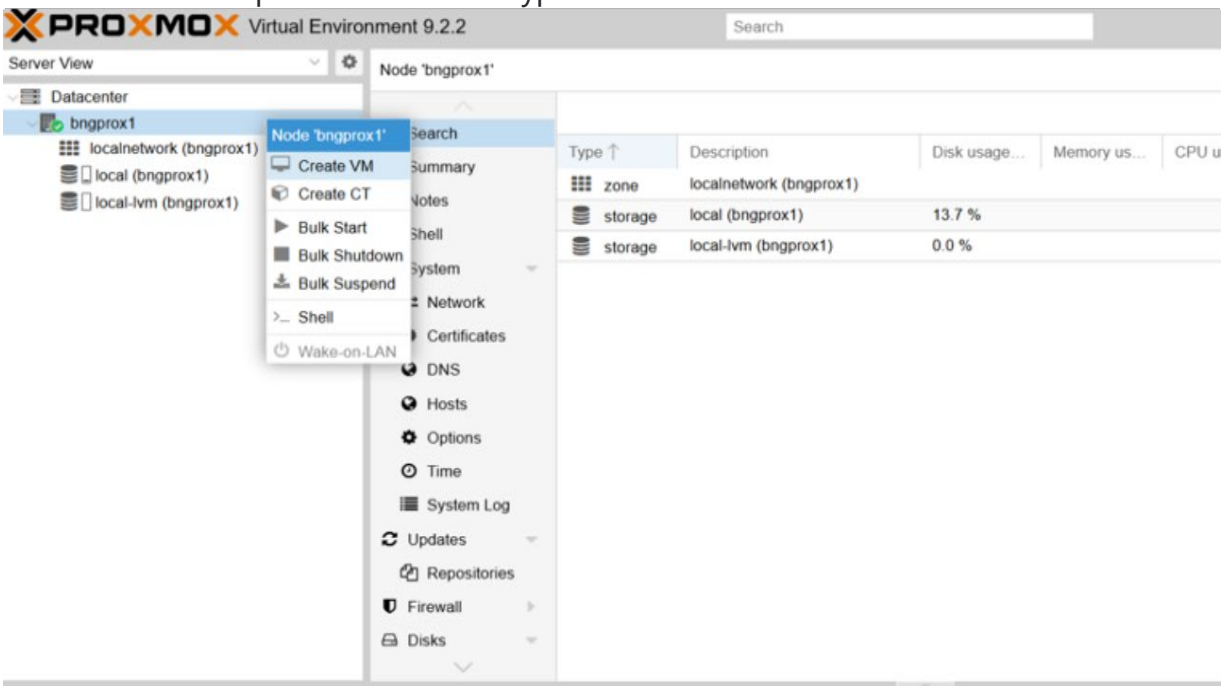




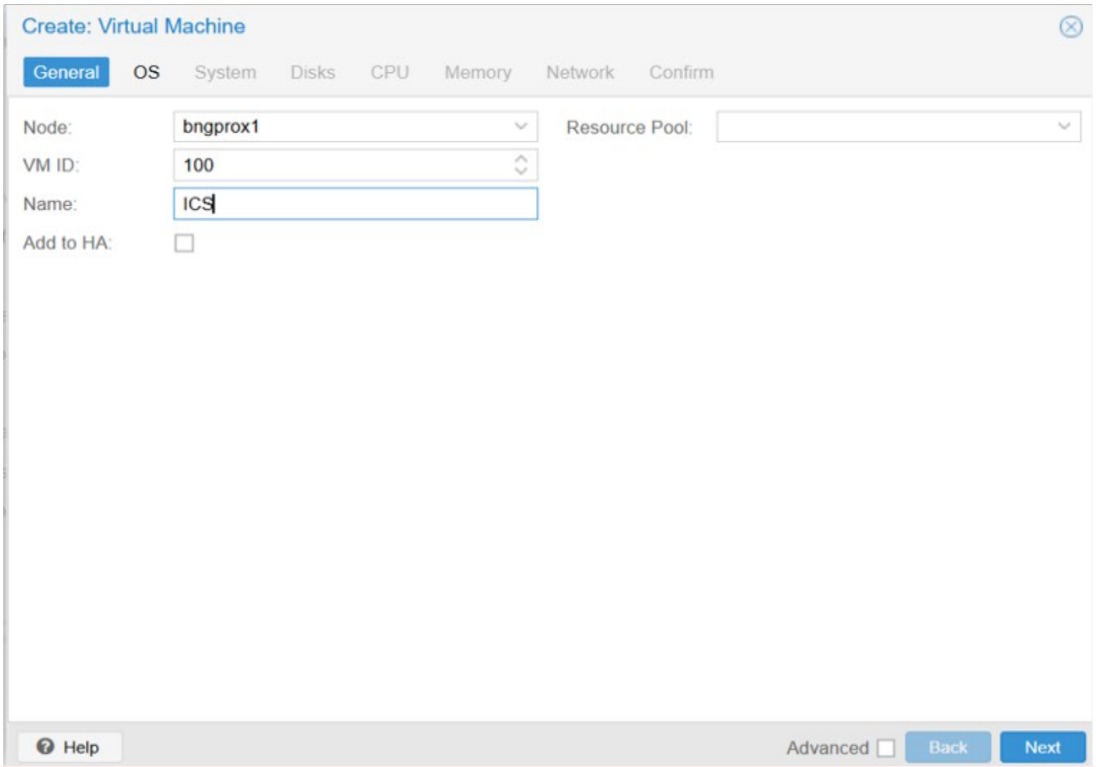
Create ICS VM on Proxmox

To create ICS VM image on Proxmox, perform the following steps:

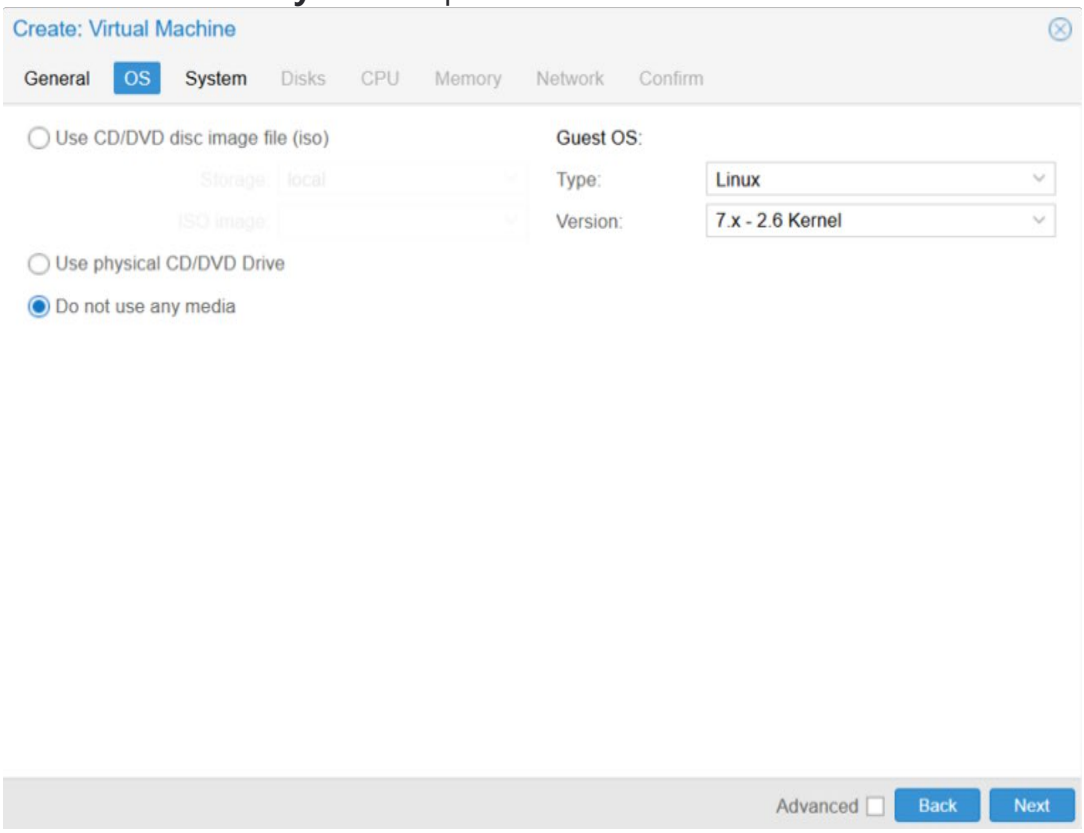
1. Select **Create VM** option on Proxmox hypervisor.



2. Enter the virtual machine name.



3. Select "**Do not use any media**" option.



4. Select information as follows:

   a. Machine type: q35.

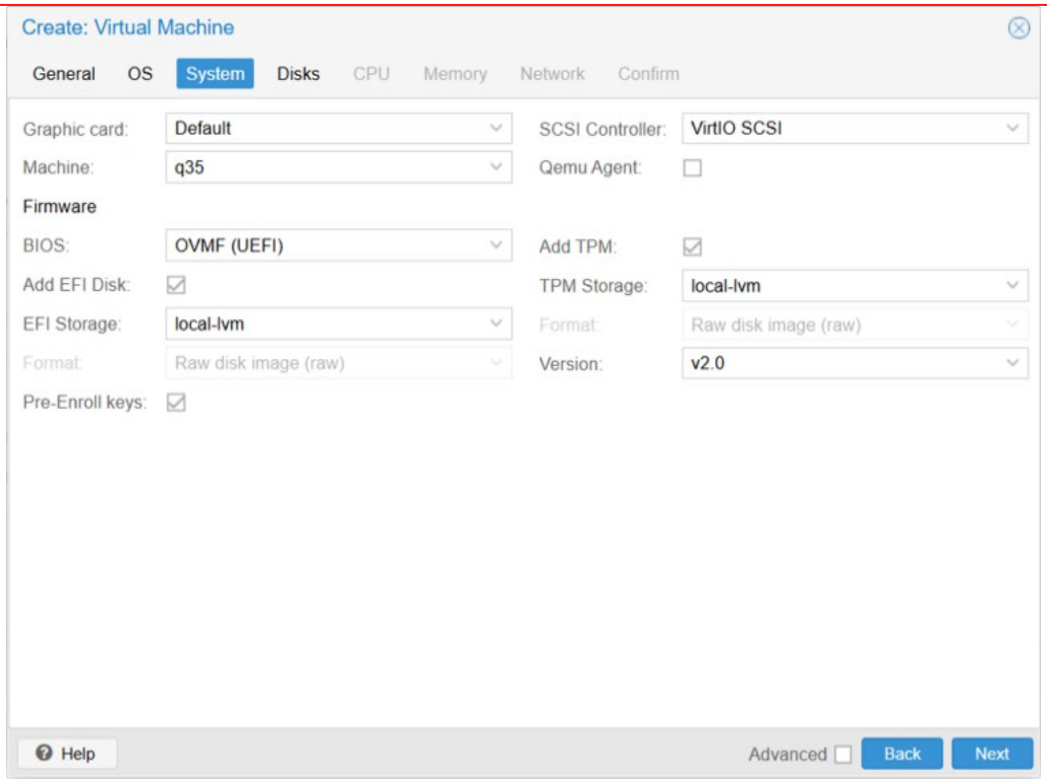
   b. BIOS: OVMF (UEFI).

   c. Add EFI Disk.

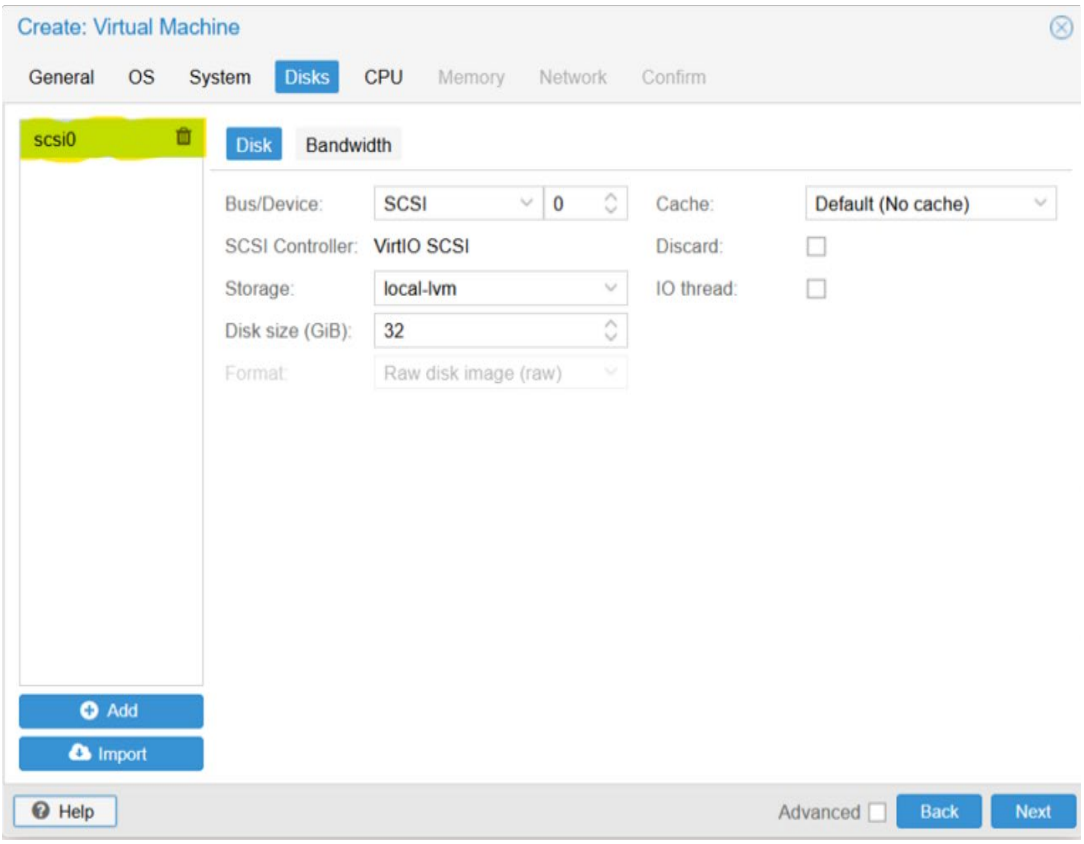
   d. Pre-enroll Keys.

   e. Add TPM.

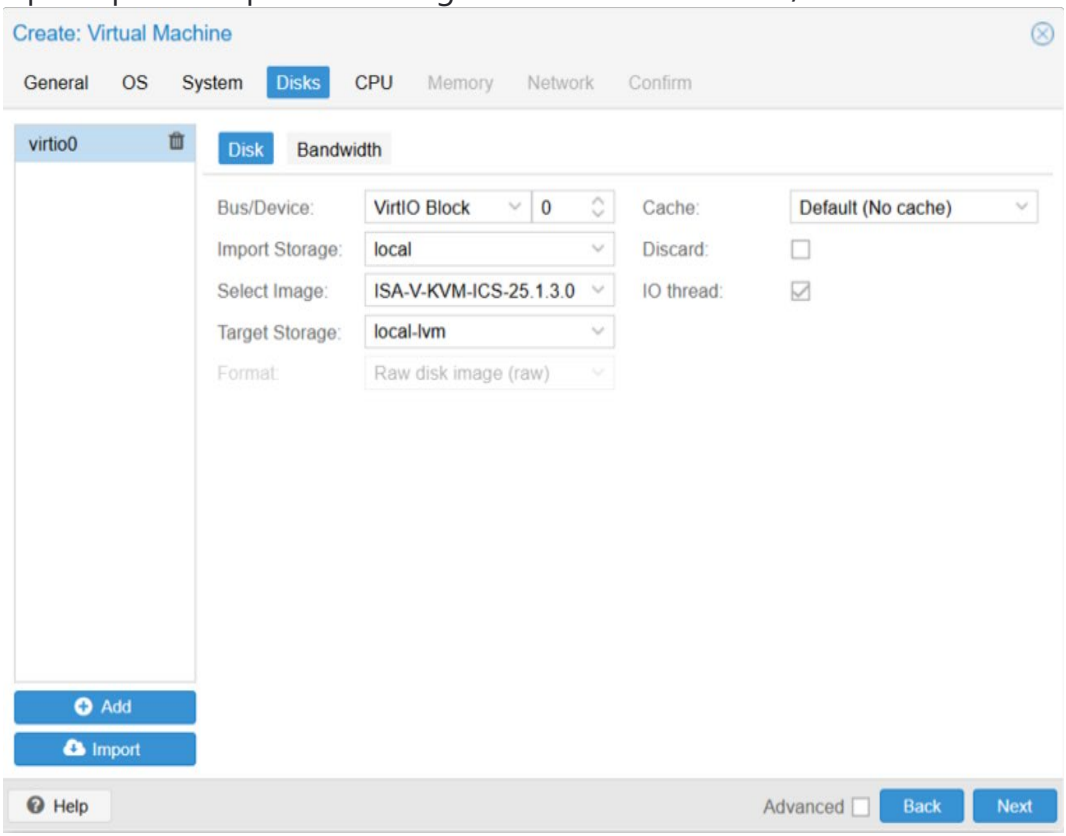
   f. Version: 2.0.



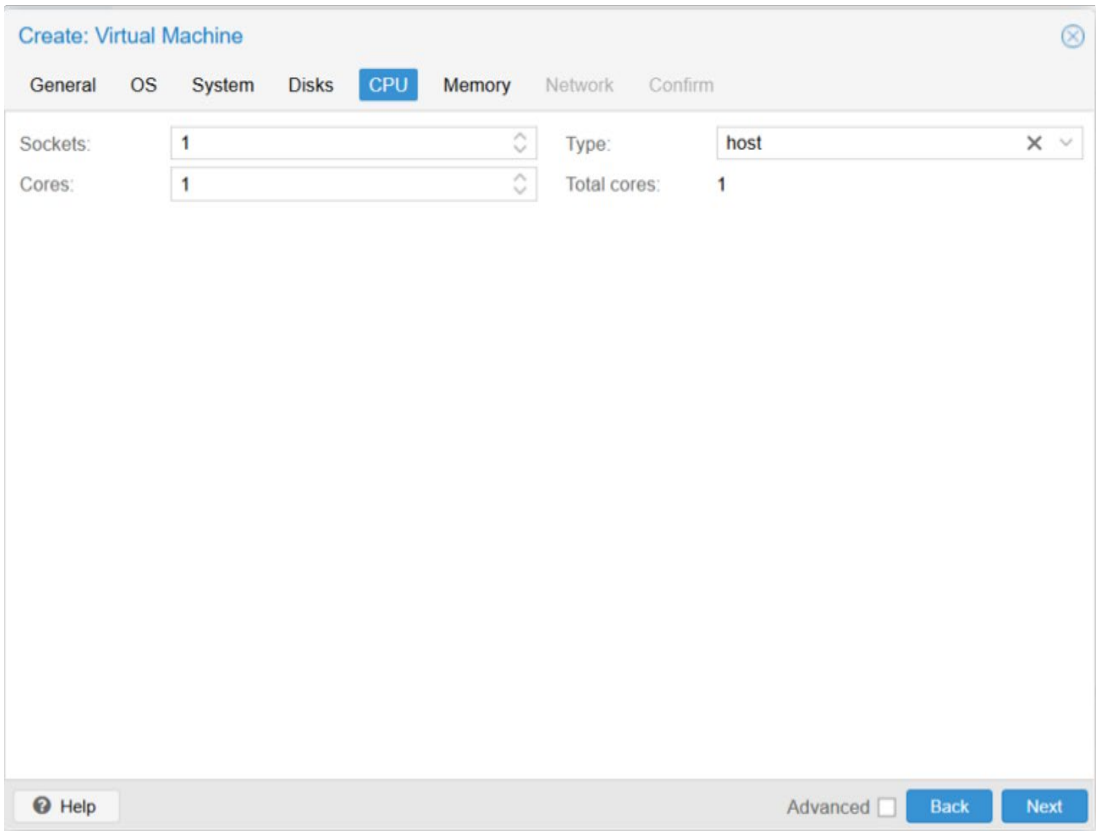
5. Delete default disk by clicking trash button on top left.



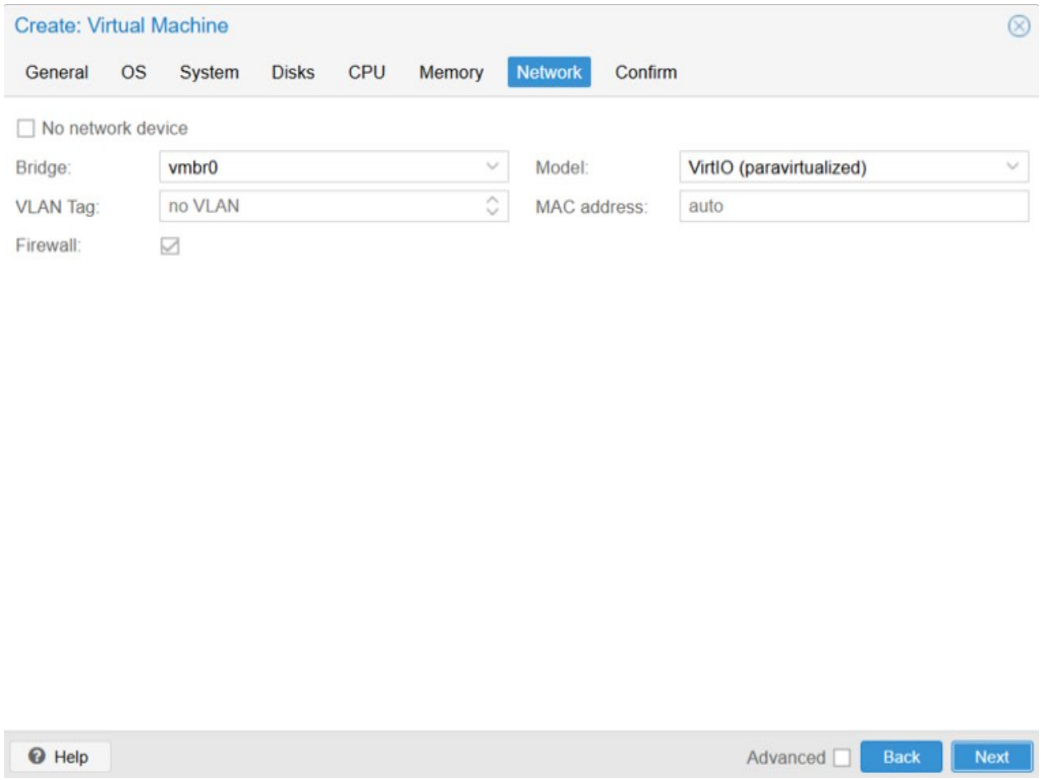
6. Click “Import” on bottom left corner for option to import ICS image.
7. Import uploaded qcow2 ICS image. Use Virtio Block as Bus/Device.



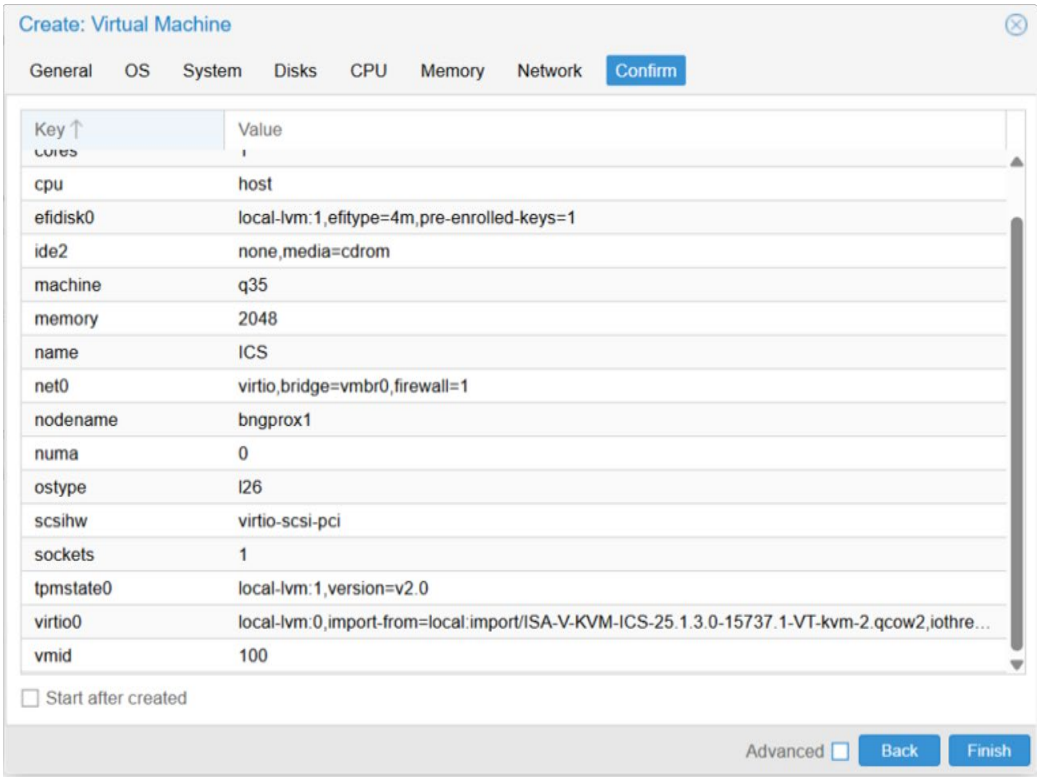
8. Enter CPU and memory information to suit your ICS instance size.
   a. ISA4500V: 4 vCPUs and 8 GB RAM.
   b. ISA6500V: 8 vCPUs and 16 GB RAM.
   c. ISA8500V: 12 vCPUs and 32 GB RAM.



9. Select “Virtio (Paravirtualized)” for network model. Following interfaces need to be configured. Create appropriate bridge interfaces for virtual NICs.
   a. Management.
   b. Internal.
   c. External



10. Click Confirm. Click Finish.



11. Start virtual machine.

Configuration Initialization

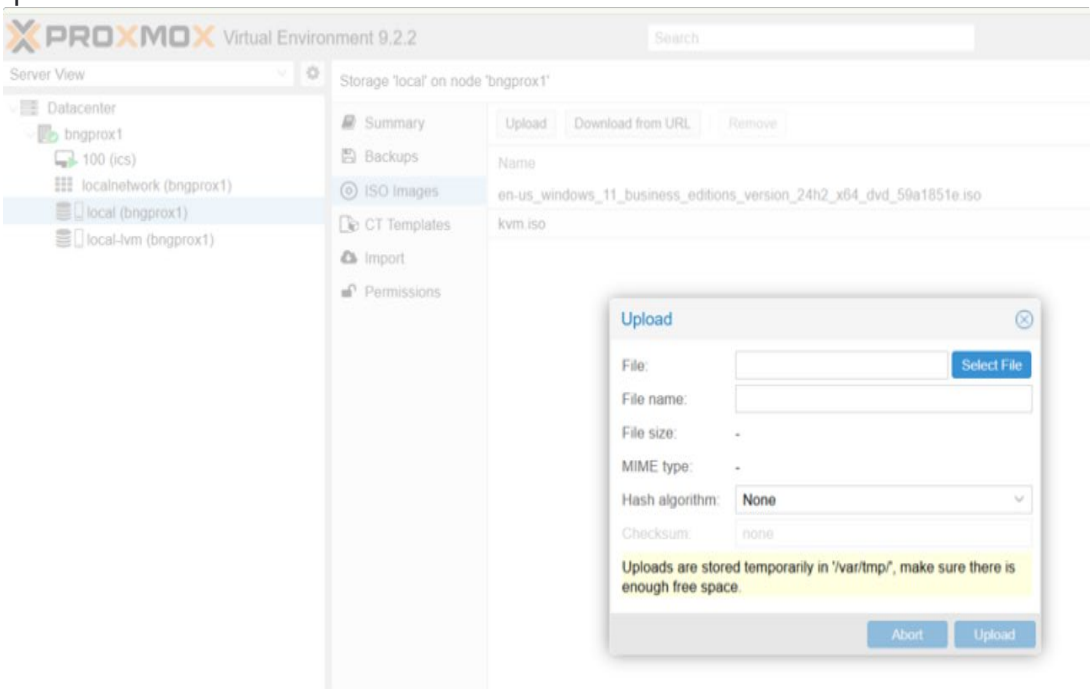
ICS on Proxmox supports configuration initialization through init ISO image.

1. Extract kvm_template.xml file from KVM image tar.gz file. Example:- ISA-V-KVM-ICS-25.1.4.0-18668.1.tar.gz.
2. Fill in required details.
3. Create ISO image from kvm_template.xml.

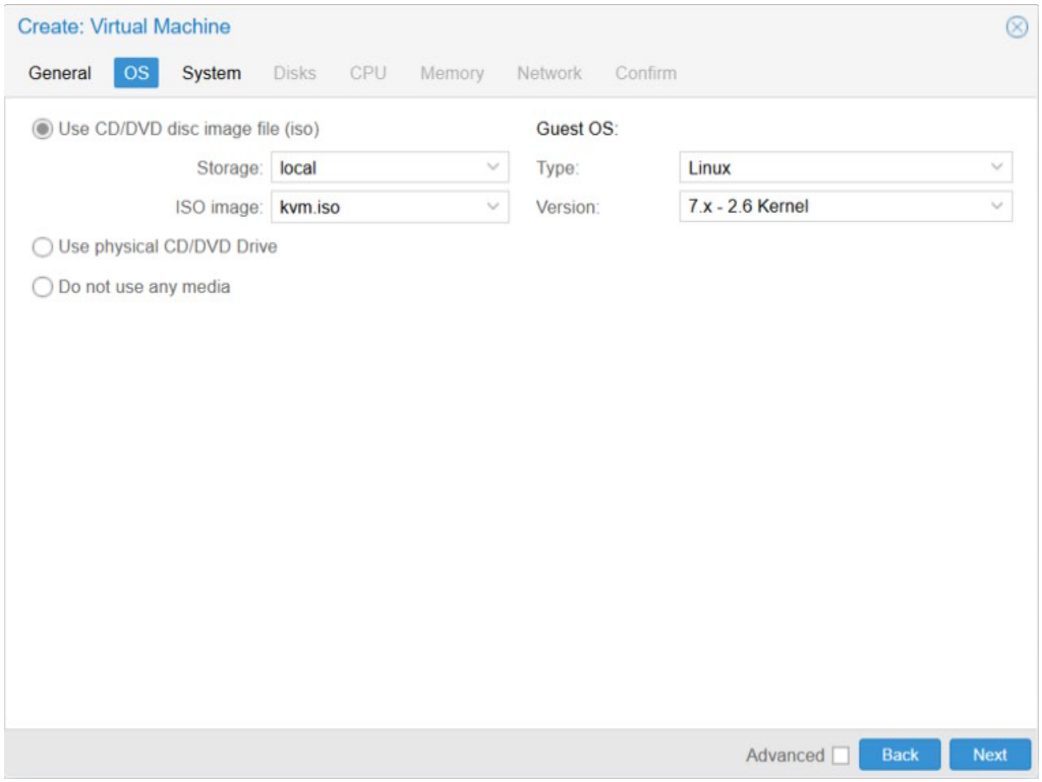
```
mkisofs -l -o kvm.iso kvm_template.xml
```

Note: File name must be **kvm_template.xml**

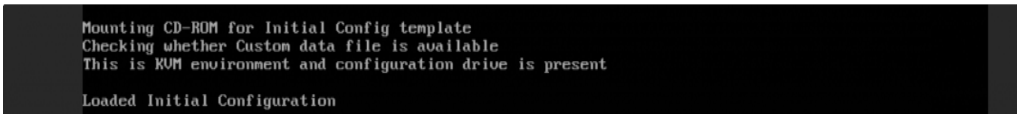
4. Upload kvm.iso to Proxmox ISO datastore.



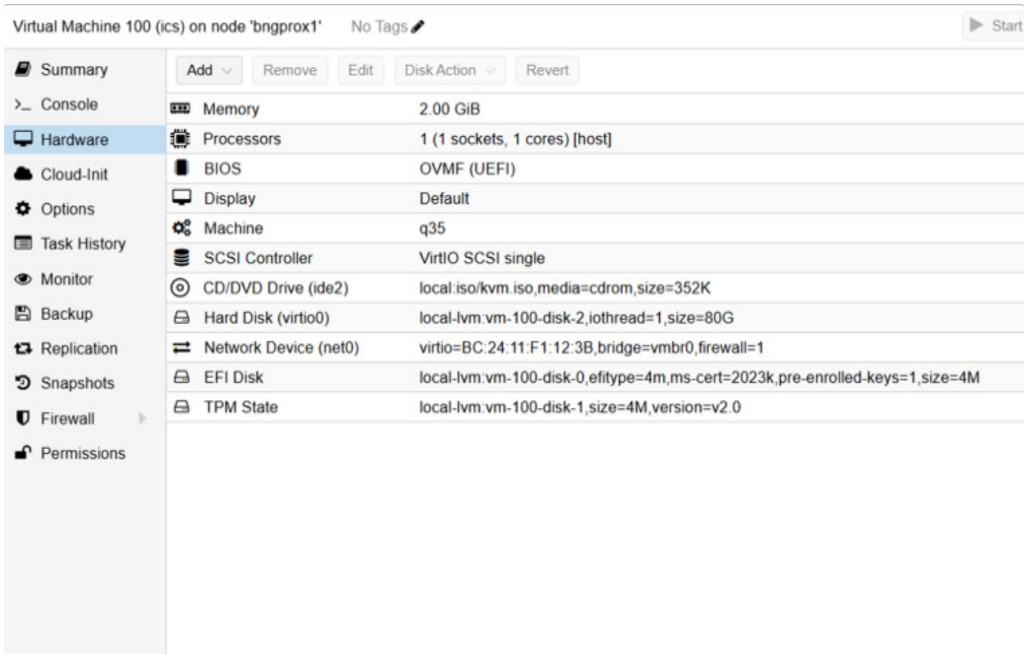
5. When creating virtual machine, select ISO image.



6. Import qcow2 image in subsequent steps.
7. If initialization is successful, then following output will be seen.



Reference working configuration



Documentation

Ivanti documentation is available at https://www.ivanti.com/support/product-documentation.

Technical Support

When you need additional information or assistance, you can contact "Support Center:

- https://forums.ivanti.com/s/contactsupport
- support@ivanti.com

For more technical support resources, browse the support website https://forums.ivanti.com/s/contactsupport