


Proxmox-NUT Homelab HOWTO — Step 1 : Install Proxmox / Adjust to no-subscription environment / Update Proxmox

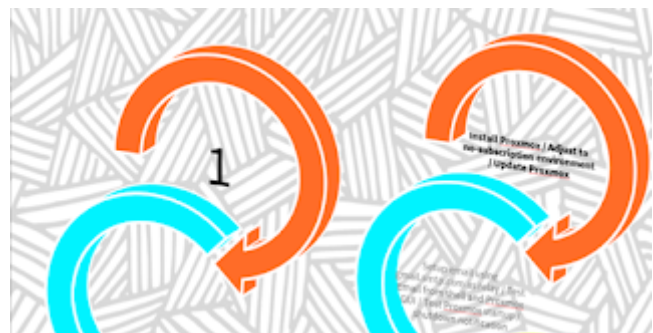
 chribonn.medium.com/proxmox-nut-homelab-howto-step-1-install-proxmox-adjust-to-no-subscription-environment-b71338a51430

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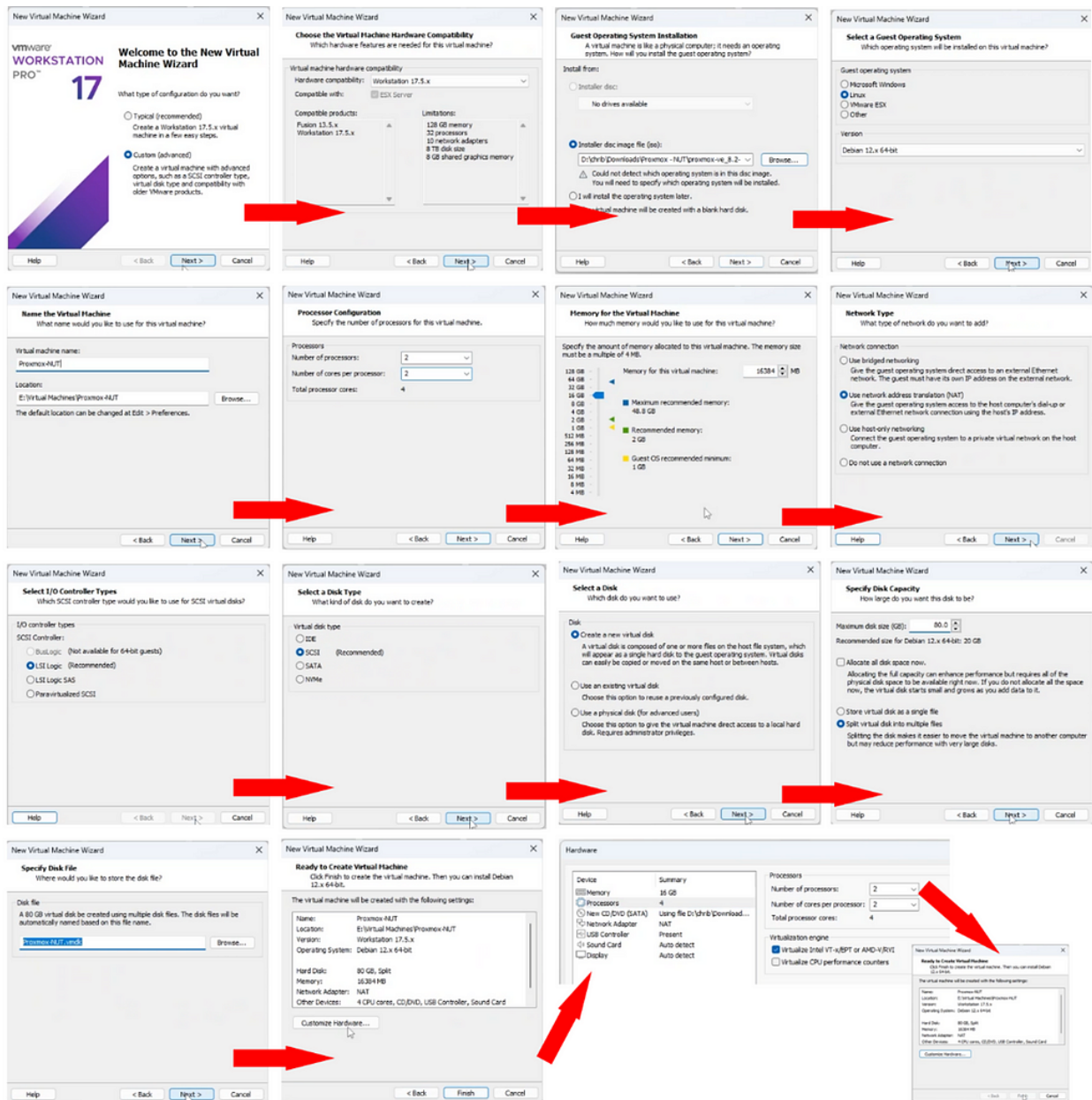


Setting up the VMWare Environment

It is not recommended to install a hypervisor on top of another hypervisor. This HowTo does this to be able to share images that can run on computers without requiring a dedicated Proxmox machine.

If you don't already have it, you can download VMware Workstation Pro (or VMware Fusion Pro for Mac) from the official website:

<https://blogs.vmware.com/workstation/2024/05/vmware-workstation-pro-now-available-free-for-personal-use.html>.



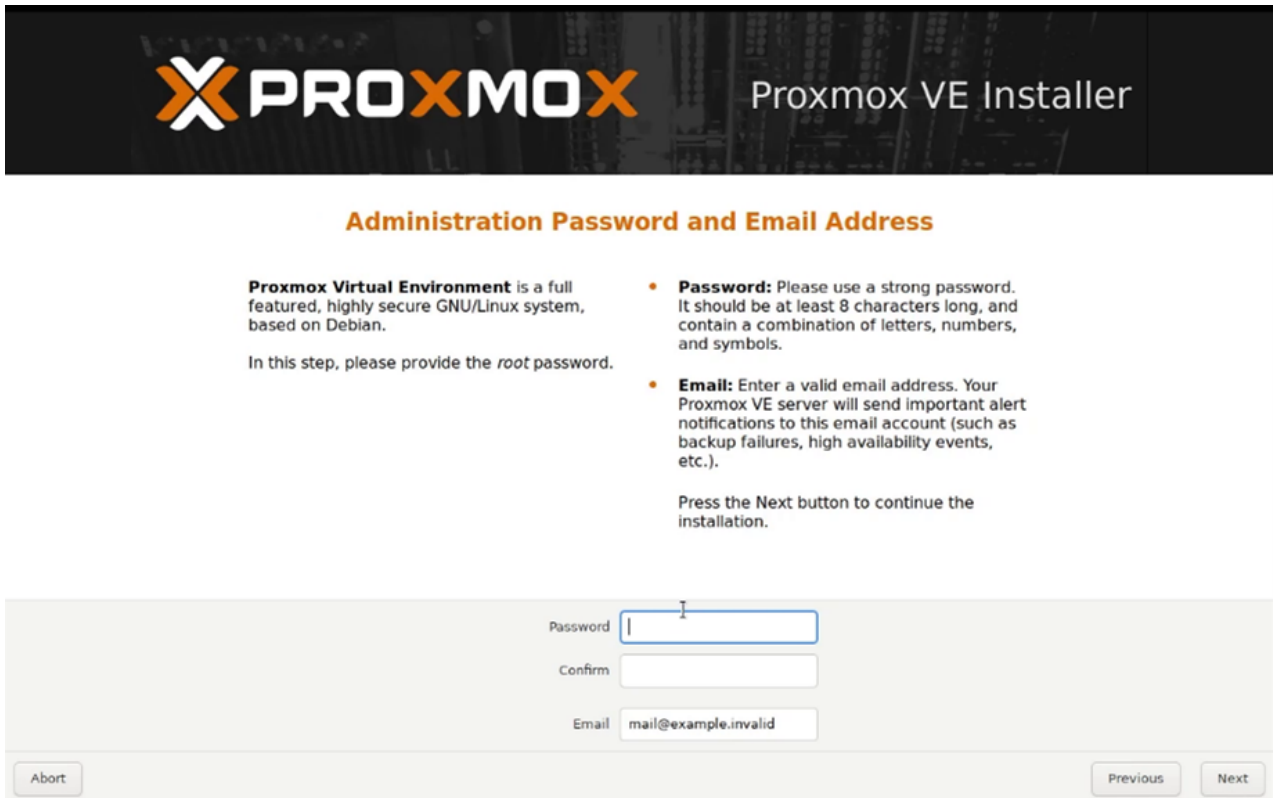
Open VMWare and setup the VM to host Proxmox:

1. Create a Custom VM and set the boot drive as the Proxmox ISO.
2. Base the VM on Debian
3. Configure it with 2 processors each with 2 cores, 16G RAM and 80G HD.
4. Check the box Virtualize Intel-x/EPT or AMD-C/RVI.
5. For all other settings accept defaults.

If you intend to extend this VM with additional functionality you may need to allocate more HD storage.

If the installation crashes on Windows, you should disable Memory Integrity, which is found under Core Isolation. For more info visit: <https://www.howtogeek.com/357757/what-are-core-isolation-and-memory-integrity-in-windows-10/> or search 'Core isolation'.

When Proxmox boots choose the Graphical option and select the hard disk you defined in VMWare. Follow the prompts and fill in your details. Enter your admin password and email when prompted.



The image shows the 'Administration Password and Email Address' screen of the Proxmox VE Installer. The title bar reads 'Proxmox VE Installer'. The main heading is 'Administration Password and Email Address'. Below this, there is a paragraph: 'Proxmox Virtual Environment is a full featured, highly secure GNU/Linux system, based on Debian. In this step, please provide the root password.' To the right, there are two bullet points: 'Password: Please use a strong password. It should be at least 8 characters long, and contain a combination of letters, numbers, and symbols.' and 'Email: Enter a valid email address. Your Proxmox VE server will send important alert notifications to this email account (such as backup failures, high availability events, etc.).' Below these instructions, there are three input fields: 'Password' (with a cursor), 'Confirm', and 'Email' (containing 'mail@example.invalid'). At the bottom, there are three buttons: 'Abort', 'Previous', and 'Next'.

Name your pve. In this series it is called **pve1**. In a Homelab / Production environment you normally want to lock down the Proxmox IP address so that it is fixed.

Install Open VM tools

Since Proxmox is installed on VMWare, you should install Open VM Tools. This is an open-source implementation of VMware Tools for Linux and FreeBSD guest operating systems.

Log into Proxmox. First time you will be receive a warning informing you that the site is not secure — Accept this warning. Open a terminal window.



Type the following:

```
Linux pve1 6.8.4-2-pve #1 SMP PREEMPT_DYNAMIC PMX 6.8.4-2 (2024-04-1)

The programs included with the Debian GNU/Linux system are free soft
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

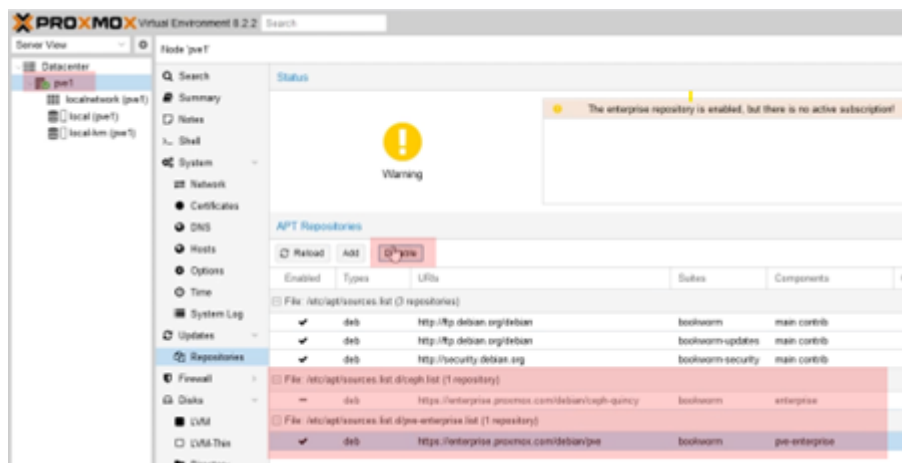
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Mon Jul 15 12:32:29 CEST 2024 on pts/0
root@pve1:~# lsblk -o +FSTYPE
NAME                                MAJ:MIN RM  SIZE RO TYPE MOUNTPOINTS FSTYPE
sda                                  8:0    0   80G  0 disk
├─sda1                               8:1    0 1007K  0 part
├─sda2                               8:2    0  512M  0 part                vfat
├─sda3                               8:3    0   79.5G  0 part                LVM2_member
├─pve-swap                          252:0    0    8G  0 lvm  [SWAP]            swap
└─pve-root                          252:1    0 29.9G  0 lvm  /                  ext4
```

Identify the device whose file system type is vfat. In this example it is /dev/sda2. Type the commands below.

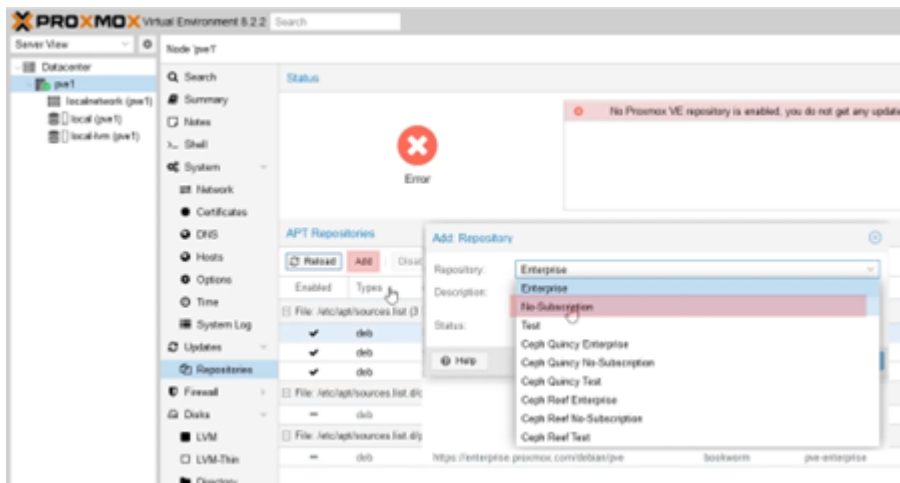
Changing Proxmox repos from enterprise to no-subscription

If you're using Proxmox in a Production environment or your Homelab is running tasks that you consider critical then you should be to the paid Enterprise tier.

In this HomeLab we will move from the Enterprise to the No-Subscription tier.



Click on each of the Enterprise sources and click the **Disable** button.



Click on the **Add** button and choose the **No-Subscription** repo from the list. Read and understand the warnings.

Update Debian / Proxmox

Having changed the repos, open a terminal window and update Debian and Proxmox.

The VMWare Snapshot *Step 1* is the state of this HowTo after this step.

Video

Links

VMware Workstation Pro: Now Available Free for Personal Use

<https://blogs.vmware.com/workstation/2024/05/vmware-workstation-pro-now-available-free-for-personal-use.html>

Proxmox Virtual Environment

<https://www.proxmox.com/en/proxmox-virtual-environment/overview>

What Are “Core Isolation” and “Memory Integrity” in Windows 10?

<https://www.howtogeek.com/357757/what-are-core-isolation-and-memory-integrity-in-windows-10/>

Proxmox Website

<https://www.proxmox.com/en/>

Proxmox System Requirements

<https://www.proxmox.com/en/proxmox-virtual-environment/requirements>

Proxmox Forum

<https://forum.proxmox.com/>

Open-VM-Tools

[https://docs.vmware.com/en/VMware-](https://docs.vmware.com/en/VMware-Tools/12.4.0/com.vmware.vsphere.vmwaretools.doc/GUID-8B6EA5B7-453B-48AA-92E5-DB7F061341D1.html)

[Tools/12.4.0/com.vmware.vsphere.vmwaretools.doc/GUID-8B6EA5B7-453B-48AA-92E5-DB7F061341D1.html](https://docs.vmware.com/en/VMware-Tools/12.4.0/com.vmware.vsphere.vmwaretools.doc/GUID-8B6EA5B7-453B-48AA-92E5-DB7F061341D1.html)