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r/Proxmox • 7 mo. ago

micutad



Proxmox and Openwrt

Question

Hello,

I have a specific problem and this is probably best place to ask.

I run proxmox on my server where I have 2 x 2.5gbps ethernet ports.

My goal is to run Openwrt in VM and ditch my old hardware router.

My current problem is that Proxmox doesnt allow to pass eth1 (ethernet port with WAN access) to VM directly but only via vmbr0 interface. From the reading about vmbr0 I got that it is something like virtual switch and this is where the issue starts. My ISP have MAC locked IP assignment and it seems that both eth1 and vmbr0 passed to VM have separate MAC addresses and both ask for IP from ISP.

How to pass eth1 directly to VM or how to make only one interface visible from WAN side and pass it into VM? I red about passing whole PCI network device to VM which seems like a valid option but I wanted to know if its there



3



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kriebz • 7mo ago •

Passing the PCI device is the correct way to do it, but you can also try making a second bridge (say, vmbr1) and adding your other physical interface to that. Then configure your firewall VM with two virtual NICs, one joining each bridge.



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eth2 -> vmbr0

eth2 -> vmbr1

openwrt then uses

vmbr0 as WAN

vmbr1 as LAN

problem is that Proxmox is asking ISP for IP on eth1 with its real MAC address and Openwrt is asking ISP for IP on vmbr0 with its static random MAC address passed when adding bridge to VM

the last part is the problematic one. 2 different MAC addresses asking for IP from ISP

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a5tra3a • 7mo ago •

I used to passthrough dedicated NICs to my VM firewall (pfsense) but instead have moved to dedicated bridges and VLAN tagging as this allows me to have that VM migrate to any of my other hosts without issue. On the other side of the connections to the ProxmoxVE nodes there is a switch and my modem is connected to it and is on a dedicated VLAN that is only accessed by the firewall VM.

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homenetworkguy • 7mo ago •

I haven't tried it yet but you can map hardware resources at the cluster level and still do live migrations with PCIe passthrough.

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looncraz • 7mo ago •

You can set the MAC address for a bridge.

For the iface vmbr0 inet entry in /etc/network/interfaces, just add "hwaddress ether XX:XX:XX:XX:XX:XX" for the mac address you want it to be.

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