How do I make my VMs accessible via a bridge?

Note: For information about the gateway, netmask, and IP address, see your customer account.

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Explanation

A bridge is created in Proxmox to make the VMs on the host system accessible via an additional IP. **The network configuration for a VM on the host system is described here.**

There are 2 ways to create a bridge in Proxmox:

1. via the ssh console

2. via the web interface

1. via the SSH console

1) Log in to your server via SSH.

2) Check which network interface is used. To do this, execute the command "ip r s | grep default".

ip r s | grep default default via 192.168.178.1 dev eth0 proto static metric 100

eth0 -> the network interface used. The main IP of your server is also configured here.

3) Now the bridge is created via the file <u>/etc/network/interfaces</u>. The network configuration looks like this:

Important

Please note that you replace "eth0" in the example configuration with your previously queried network interface, otherwise you will lock yourself out of your system. Also the line "iface eth0 inet manual" (with your network interface) must be present, so that your server is accessible in the connection.

2. Via the web interface

1) Open the Proxmox web interface: https://<Main-ipv4-IP>:8006/

2) Navigate on the left side to: datacenter -> "Your host system".

	ual Environment 6.3-3 Se	arch						
Server View ~	Node 'srv10120'							
→ Datacenter	Q Search							
	Summary	Туре ↑	Description	Disk usage	Memory us	CPU usage	Uptime	
	D Notes	storage 🛢	local (srv10120)	1.6 %			-	
	>_ Shell	storage 🛢	mein_storage (srv10120)	0.0 %			-	
	😋 System 🤝							
	Certificates							
	ONS							
	Hosts							
	O Time							
	🔳 Syslog							
	C Updates							
	♥ Firewall ▶							
	🖨 Disks 👻							
	LVM							
	LVM-Thin							
	Directory							
	ZFS							
	@ Ceph ▶							
	ta Replication							
	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII							
	C Subscription							
	Gussenption							

3) Now select "Network".

ver View	Node 'srv10120'									
Datacenter	Q Search	Create V	Revert Edit	Remove	Apply Configura	ation				
arvivi20	Summary	Name ↑	Туре	Active	Autostart	VLAN a	Ports/Slaves	Bond Mode	CIDR	Gateway
	D Notes	eno5np0	Network Device	Yes	No	No				
	>_ Shell	eno6np1	Network Device	No	No	No				
	os System -									
	Certificates									
	ONS									
	Hosts									
	Ø Time									
	i≣ Syslog									
	C Updates									
	♥ Firewall >									
	🖨 Disks 👻									
	LVM									
	LVM-Thin									
	Directory									
	E ZFS									
	n Ceph ▷									
	ta Replication									
	Task History									

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4) Now double-click on the network interface and delete all entries. Do <u>NOT</u> save the change yet, because you would lock yourself out. Please follow the steps to the end.

5) Now the bridge is created. To do this, click on "Create" and select "Linux Bridge".

r View	Node 'srv10120'										
Datacenter	Q Search	Create 🗸	Revert	Edit	Remove	Apply Configura	tion				
> 💽 srv10120	Summary Solution Sol	Linux Bridge Linux Bond Linux VLAN OVS Bridge OVS Bond OVS IntPort	e work [Device Device	Active Yes No	Autostart No No	VLAN a No No	Ports/Slaves	Bond Mode	CIDR	Gateway
	 ONS Hosts Time ≣ Syslog Updates Firewall Disks 										
	LVM LVM-Thin Directory ZFS Ceph Replication Task History Subscription	Pending chang /etc/netw +++ /etc/netw (0) 14,9 +14, auto lo iface lo ine -iface enoSnp - addre +iface enoSnp - gatew +iface enoSnp	es (Either re ork/interi ork/interi 7 @ t loopback 0 inet sta ss 0 inet mar opoint	eboot or faces faces.r k atic nual	2021-01 2021-01 new 2021-01 /32	configuration' (ne -27 14:30:15.) -27 14:53:04.(eds ifupdown 921620378 + 335651542 +	2) to activate) 9100 9100			

6) The following entries should be made there:

Create: Linux B	ridge		8
Name:	vmbr0	Autostart:	
IPv4/CIDR:	89.163.138.95/32	VLAN aware:	
Gateway (IPv4):	89 163 138 65	Bridge ports:	eno5np0
IPv6/CIDR:		Comment:	
Gateway (IPv6):			
Help			Advanced Create

Name: vmbr0 IPv4/CIDR: Main-IP of the host system Gateway (IPv4): Gateway of the host system IPv6/CIDR: IPv6 Adresse of the host system Gateway (IPv6): IPv6 Gateway of the host system Autostart: enable VLAN aware: Bridge ports: Network interfaces of the host system

7) If you have now made all the settings and checked them again, restart the server via the "Restart" item at the top right of the screen.

The Server should be reachable now.

Important for bridging setup to work

To make the Bridging setup to work, you need to change the routing of the additional ip you want to use in a virtual machine.

Go to the control center of your server in the customer panel and set the following setting for the correct additional ip:

Netzwerk-Konfiguration (IPv4)							
Netzadres	e 217.79.181.0						
Gatew	y 217.79.181.1						
Subr	et 255.255.255.255/32						
Anbindu	1000 MBit/s						
Failover	P Keine Failover-IP zugewiesen						
IP-Adres	E 217.79.181.2 Hauptadresse 5.104.108.136 5.104.107.190						
Konfiguration IP-	dresse hinzufügen Failover-IP-Verwaltung						
RDNS Verwaltung	Bandbreite verwalten						

	IP-Adresse	Тур	Konfiguration	
	217.79.181.2	Primār		1
	5.104.107.190	Zusätzlich	Host-Route Virtualisierung	1.
	5.104.108.136	Zusätzlich	Host-Route Virtualisierung	
Für aus	gewählte IPs übernehmen:		Host-Route Virtualisierung	Î
			Änder	ungen übernehmen

The VM is then configured as follow:

The primary network interface allow-hotplug ens18 iface ens18 inet static address <additional IP> netmask 255.255.255.255

up ip route add <host system gateway> dev ens18 up ip route add default via <gateway of host system> down ip route del default down ip route del <gateway of the host system> Page 5 / 6

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Please make sure that you change the name of the interface ens18 to the interface name inside the virtual machine as well.

Important for Debian 7 with Proxmox

If you want to run VM's and CT's at the same time, change the following entry via SSH: Datei: /etc/vz/vz.conf

Look for the following entry there: NEIGHBOUR_DEVS=detect

and replace it with this NEIGHBOUR_DEVS=all

Unique solution ID: #1476 Author: Bettina Brauer Last update: 2023-07-11 14:49

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