Tailscale Installationsanleitung

- Tailscale Installationsanleitung
 - Vorbreitung
 - Client Verbinden
 - PfSense Konfiguration
 - Abschliessende einstellungen
 - RDP Auf den VM's einschalten

Vorbreitung

- 1. Snapshot von Router machen(falls es zu problem kommen sollte kann dieser Restored werden)
- 2. Tailscale Accoutn erstellen (https://login.tailscale.com/start) --> Am einfaschten einfach mit Google, Microsoft oder GitHub Account registrieren.

Client Verbinden

- 1. Tailscale herunterladen (https://tailscale.com/download/)
- 2. Tailscale Starten
- 3. Anmeldung (in icontray Rechtscklick auf Tailscale Symbol)



4. Status im WebUI Überprüfen

	•	@gmail.com							Download Suppo	ort Docs	
8	3 Machines	ି Services 🔗	Users 🔒	Access controls	🗌 Logs	⊕ DNS	Settin	gs			
N	Aachines	Sces connected to y	our tailnet. Le							Add device	
C	Q Search by na						∀ Fi	ilters 🗸			
мл	ACHINE			ADDRESSES ③			ERSION		LAST SEEN		
la	aptop-g5op4c9 @gmail.	p com				1. W	52.1 'indows		Connected		

PfSense Konfiguration

- 1. PFSense Webui öffnen
- 2. Package Manager Öffnen

	🗖 🛛 💽 Welcome	×	🗔 New tab	× 🗾	pfSense.home.arpa - Wizarc	: pfSi × +				-	Ð	×
\leftarrow	C 🔺 Not se	cure 192.168.10.1/wi	izard.php?xml=setup_wiza	ird.xml			<i>₽</i> A ^N	☆ C	ן ל≡	€ ₹	a	•
		System - Interf	faces • Firewall •	Services -	VPN - Status -	Diagnostics 🗸	Help 🗸				•	
	WARNING: The	Advanced Certificates	d is set to the default va	ue. Change the pa	assword in the User Man	ager.						
	Wizard /	General Setup High Availability Package Manager									0	
	pfSense Set	Routing Setup Wizard Update User Manager Logout (admin)	to pfSense® soft will provide guidance th may be stopped at any t oftware is developed at	ware! irough the initial c ime by clicking th ad maintained by	onfiguration of pfSense. le logo image at the top o Netgate®	of the screen.						
102.15	ie 10 1/oka mar installed a	>> Next	t pfSense is develv	oped and maintair	ned by Netgate . © ESF 2	004 - 2023 View lice	nse.	Activa Go to Se	te Wind	dows activate V	lindows.	
	P Type here to se	earch	H Q		Pr-				^ 단 (In ENG 0	02:23 3/11/2023	5

3. Tailscale Package Installieren(auf Install klicken)



4. Tailscale In PFSense öffnen

-] 🛛 💽 Welcome	× 🖾 New tab	× 🗾	pfSense.home.arp	oa - System: Pao	× +				-	ð	×
\leftarrow (C 🔺 Not secure 192.168.	10.1/pkg_mgr_installed.php					Aø	☆ O	₹⁄≡	÷		-
	COMMUNITY EDITION	Interfaces 👻 Firewall 👻	Services -	VPN -	Status 🗸	Diagnostics -	Help 🗸				•	
	WARNING: The 'admin' account p	password is set to the default valu	ie. Change the pa	IPsec L2TP	ge	r.						
2	System / Package M	lanager / Installed Pa	ackages	OpenVPN Tailscale						•	0	
	Installed Packages Availab	ole Packages										
	Installed Packages											
	Name Category Version	Description								Actio	ns	
	✓ Tailscale security 0.1.4	Tailscale is a mesh VPN altern without any proxies.	iative, based on V	VireGuard, that	connects you	ur computers, datab	ases, and ser	vices togethe	r securely	∕ m≞t i	a	
		Package Dependencies: Ø tailscale-1.44.0										
			a									
			N = 0	pdate 💙 = Cu	rrent							
			n = Op	= Information	rrent 1⊐ = Reinst	all						
			= Remove 1	er version availa	irrent 17 = Reinsta able	all						
		Packa	i = Remove i Newe	= Information er version availa but not (fully) in	nrrent ▲ = Reinsta able nstalled or de	all						
		Packa	i = Remove i Newe ge is configured l	e Information ar version availa but not (fully) in	rrrent t = Reinst: able nstalled or de	all precated						
		Packa	₩ = 0 = Remove 1 Newe ge is configured b	er version availa	trrent t→ = Reinst able nstalled or de	all precated		Activate	e Wind	OWS	pdows	
		Packa pfSense is develo	ge is configured b	et by Netgate.	tra = Reinst able Installed or de	all precated - 2023 View license		Activate Go to Set	e Wind	OWS	ndous.	
	♀ Type here to search	Packay pfSense is develo	e - of = Remove 1 Newe ge is configured I ped and maintain =	er version availa but not (fully) in hed by Netgate.	TT = Reinst. able Installed or de	all precated - 2023 View license		Activate Go to Set	e Wind ings to a	OWS retriverte With ENG 03/1	ndoms. 12:26	R.

	🗖 🛛 💽 Welcome	×	📅 New tab	×	pfSense.home	e.arpa - System	n: Pac × +					-	0)
\leftarrow	C 🔺 Not se	ecure 192.168.10.1/	pkg_mgr.php					A٧	☆ (_D {≧	Ē	~~	🌗
		System 👻 Inter	faces - Firewa	III - Services	s ≠ VPN •	Status -	Diagnostics 🗸	Help 🕇				¢	•
	WARNING: The	admin' account passw	ord is set to the defa	ult value. Change	IPsec the pa L2TP		ger.						
	System /	^D ackage Mana	ger / Availab	le Package	OpenVPN S Tailacale							Ø	
	Installed Packa	ges Available Pa	skages										
	Search											•	
	ocaron												
	Search term	Enter a	search string or *nix	regular expressio	n to search packag	ge names and	Both d descriptions.	<u> </u>	Search 5	Clear			
	Search term Packages Name	Enter a Version	search string or *nix Description	regular expressio	n to search packag	ge names and	Both d descriptions.	<u>`</u> Q	Search 5	Clear			
	Search term Packages Name acme	Enter a Version 0.7.5	Description Automated Certif Package Depend & pecl-ssh2-1.3	regular expressio icate Managemen encies: .1 Øsocat-1.7	n to search packag It Environment, for 1 .4.4 Øphp82-8.	automated u .2.6 Ø ph	Both d descriptions. use of LetsEncrypt c up82-ftp-8.2.6	ertificates.	Search	Clear	ŧ	Install	
	Search term Packages Name acme apcupsd	Enter a Version 0.7.5 0.3.92_1	Description Automated Certif Package Depend Package Depend Package Territoria pecl-ssh2-1.3 "apcupsd" can be perform automati	regular expressio icate Managemen encies: .1 Ø socat-1.7 used for controlli ic shutdown, and o	n to search packag It Environment, for . .4.4 @php82-8. ng all APC UPS mo can run in network.	automated u .2.6 Ø ph odels It can m mode in orde	Both d descriptions. use of LetsEncrypt o up82-ftp-8.2.6 nonitor and log the o er to power down ot	ertificates.	Search 50	tatus,	+	- Install	
	Search term Packages Name acme apcupsd	Enter a Version 0.7.5 0.3.92_1	Description Automated Certif Package Depend	regular expressio icate Managemen encies: .1 @ socat-1.7 used for controlli ic shutdown, and o encies: .14_4	n to search packag tt Environment, for . .4.4 Ø php82-8. ng all APC UPS mo can run in network	automated u .2.6 Ø ph dels It can m mode in orde	Both d descriptions. use of LetsEncrypt of up82-ftp-8.2.6 nonitor and log the c er to power down ot	ertificates.	and battery s LAN Activ Go to :	tatus, sette Wirr	+ ndows	 Install Install te Windo 	ows.
192.16	Packages Name acme apcupsd	Enter a Version 0.7.5 0.3.92_1 tailscale.xml 1.2.2_4	Description Automated Certif Package Dependi Ø pecl-ssh2-1.3 *apcupsd" can be perform automati Package Dependi Ø apcupsd-3.14 Broadcasts a who	regular expressio icate Managemen encies: .1 @ socat-1.7 used for controlli ic shutdown, and o encies: .14_4 o-has ARP packet	n to search packag It Environment, for . .4.4 Ø php82-8. ng all APC UPS mo can run in network on the network anc	automated u .2.6 @ ph ddels It can m mode in orde	Both d descriptions. use of LetsEncrypt of up82-ftp-8.2.6 nonitor and log the of er to power down ot wers.	ertificates. urrent power a	and battery s LAN Activ Go to :	tatus, sette Wir Settings to	+ Hadows	Install	ows.

5. In Tailscale Webui Auth Key generieren

	@gmail.com	n					Downloa	d Support Docs	
🗄 Machines	🗟 Services	뽔 Users	Access controls	🛛 Logs	⊕ DNS	Settings			
 Tailnet Se General User man Device m OAuth clin Webhook 	ttings agement anagement ents s		Keys View and manage y Your private device never shared with	your Auth ke e keys are no Tailscale. Le	rys and API a trincluded h arn more →	ccess tokens. ere: they are a	always private, stay on	your device, and are	
Contact p Billing 은 Personal	references Settings			es without a	You do	n't have any a			
			API access toke Access tokens give	ens e access to t	he Tailscale You don'i	API.	ess tokens yet	Generate access token	

6. Auth Key in PFSense Eingeben

A Not secure https://tbz.hop	to.org:8006/?console=kvm&novnc=1&vmid=	=251&vmname=C1&node=pve1&res	ize=off&cmd=				i.
🍨 🗖 🛛 💽 Welcome	× 🔚 New tab	🗙 🗾 pfSense.home.arpa - V	PN: Tailsca 🗙 🕂			-	σX
← C ▲ Not secure	192.168.10.1/pkg_edit.php?xml=tailscale/t	'tailscale_auth.xml		A* 🔂 C) ~	🧳
Tailscale is not enabl	ed.						
Authentication	Settings Status						
Authentication							
Login Ser	ver https://controlplane.tailscale.com Base URL of login (control) server.						
Pre-authentication	Key tskey-auth-kM47K97CNTRL-QrPcxdji Set the machine authorization key.	j8T6cdHyHjmGHr5cHhkvtcehHM3					
Recommendat	tion Use a non-reusable auth key and disa	able key expiry for trusted machines v	ia the provider admin console.				
Logout and Clea	n						
	➡ Logout and Clean						
	Disconnect local machine from login	server (if connected), expire the curr	ent log in, and flush the local state	e cache.			
	Save						
Changes to these set	tings may temporarily disrupt peer connection	ns and access to Tailscale.				×	
				Activa	te Windov		
	pfSense is develop	ped and maintained by Netgate. © ES	F 2004 - 2023 View license.	Go to Se	ttings to acti	rate Wind	ows.
Type here to searc	n 🌜 🙀 💽 🗖				^ 腔 d <u>x</u> E	NG 02:3 03/11/	37 2023 1

7. Routes Hinzufügen und Tailscale Enablen

Enchle	
Enable	Enable Taliscale
Listen Port	41641
	UDP port to listen on for WireGuard and peer-to-peer traffic.
State Directory	/usr/local/pkg/tailscale/state
	Path to directory for storage of config state, certificates, and incoming files. WARNING: Changing this value will not move an existing configuration and will require reauthentication with the control server.
Keep Configuration	Z Enable
	With 'Keep Configuration' enabled (default), all package settings and the local Tailscale state cache will persist on install/de-install.
ONS	
Assert DNO	
Accept DNS	Accept DNS configuration from the control server.
Routing	
Advertise Exit Node	Offer to be an exit node for outbound internet traffic from the Tailscale network.
Accept Subnet Routes	Accept subnet routes that other nodes advertise.
Notice	Routes will be transformed into proper subnet start boundaries prior to validating and saving.
Notice Advertised Routes	Routes will be transformed into proper subnet start boundaries prior to validating and saving.
Notice Advertised Routes	Routes will be transformed into proper subnet start boundaries prior to validating and saving. Subnet expressed using CIDR notation Administrative description (not parsed)
Notice Advertised Routes Add	Routes will be transformed into proper subnet start boundaries prior to validating and saving. Subnet expressed using CIDR notation Administrative description (not parsed)
Notice Advertised Routes Add	Routes will be transformed into proper subnet start boundaries prior to validating and saving. Subnet expressed using CIDR notation Administrative description (not parsed)
Notice Advertised Routes Add	Routes will be transformed into proper subnet start boundaries prior to validating and saving. Subnet expressed using CIDR notation Administrative description (not parsed)

(Routes sind die Subnetze welche Exposed Werden Sollten(diese sind dann für die Clients welche mit

Tailscale verbunden werden verfügbar))

	With 'Keep Configuration' enabled (default), all package settings and the local Tailscale state cache will persist on install/de-install.
DNS	
Accept DNS	Accept DNS configuration from the control server.
Routing	
Advertise Exit Node	Offer to be an exit node for outbound internet traffic from the Tailscale network.
Accept Subnet Routes	Accept subnet routes that other nodes advertise.
Notice	Routes will be transformed into proper subnet start boundaries prior to validating and saving.
Advertised Routes	192.168.10.0/24 🕏 💼 Delete
	192.168.20.0/24 Image: Delete Subnet expressed using CIDR notation Administrative description (not parsed)
Add	+ Add
Logging	
Syslog Logging	Enable syslog output

8. Tailscale Starten

Abschliessende einstellungen

1. Im Webui pfsense Auswählen und Edit route settings auswählen.

Q Search by name, owner, tag, version		▼ Filters ~		Ł
2 machines				
MACHINE	ADDRESSES ①	VERSION	LAST SEEN	
pfsense @gmail.com	100.83.200.144	1.44.0 FreeBSD	Connected Share	e •••
				Edit machine name
laptop-g5op4c9p	100.124.56.101	1.52.1 Windows	0 10:58 AM GMT+1	Share
(g.n.amoon)				Disable key expiry
Connect more machines by installing Tailscale				View recent activity
				Edit route settings
				Edit ACL tags

2. Routen einschalten



RDP Auf den VM's einschalten

Settings	- 🗆 X	
命 Home	Remote Desktop	
Find a setting	Remote Desktop lets you connect to and control this PC from a remote device by using a Remote Desktop client (available for Windows, Android, iOS and macOS). You'll be able to work from another device as if you were working directly on this PC.	
🖵 Display	Enable Remote Desktop On	
ባ») Sound	Keep my PC awake for connections when it is	
Notifications & actions	plugged in Show settings	
J Focus assist	Make my PC discoverable on private and domain Show settings networks to enable automatic connection from a remote device	
(¹) Power & sleep	Advanced settings	
□ Storage		
- 문 Tablet	How to connect to this PC	
曰: Multitasking	Use this PC name to connect from your remote device: cl1z.leo.local	
Projecting to this PC	Don't have a Remote Desktop client on your remote device?	