

TASK 1

Log into the web interface of pfSense.

Dashboard

The screenshot shows the pfSense web interface. The browser address bar indicates the URL is 172.30.1.200. The page title is "Status / Dashboard".

System Information

Name	pfSense.localdomain
User	admin@172.30.1.1 (Local Database)
System	Microsoft Azure Netgate Device ID: 99d54d2a7ecb946fd754
BIOS	Vendor: American Megatrends Inc. Version: 090008 Release Date: Fri Dec 7 2018
Version	2.4.5-RELEASE-p1 (amd64) built on Tue Jun 02 17:51:17 EDT 2020 FreeBSD 11.3-STABLE Version 2.5.0 is available. Version information updated at Thu Mar 11 17:19:00 CST 2021
CPU Type	Intel(R) Xeon(R) Platinum 8272CL CPU @ 2.60GHz AES-NI CPU Crypto: Yes (inactive)
Kernel PTI	Disabled

Netgate Services And Support

Contract type: Community Support
Community Support Only

NETGATE AND pfSense COMMUNITY SUPPORT RESOURCES

If you purchased your pfSense gateway firewall appliance from Netgate and elected **Community Support** at the point of sale or installed pfSense on your own hardware, you have access to various community support resources. This includes the **NETGATE RESOURCE LIBRARY**.

You also may upgrade to a Netgate Global Technical Assistance Center (TAC) Support subscription. We're always on! Our team is staffed 24x7x365 and committed to delivering enterprise-class, worldwide support at a price point that is more than competitive when compared to others in our space.

- Upgrade Your Support
- Community Support Resources
- Netgate Global Support
- Official pfSense Training by

Default Firewall Rules – WAN

Rules (Drag to Change Order)											
☐	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
☒	0/0 B	*	Reserved Not assigned by IANA	*	*	*	*	*		Block bogon networks	
☐	0/0 B	IPv4 *	*	*	172.30.1.5	*	*	none		Block ANY to 172.30.1.5 via WAN interface	
☐	0/0 B	IPv4 *	*	*	172.30.1.5	*	*	none		Allow ANY to 172.30.1.5 via WAN interface	
☐	0/0 B	IPv4 TCP	*	*	This Firewall	443 (HTTPS)	*	none		Allow pfSense Management via WAN Interface	

Default Firewall Rules – LAN.

Rules (Drag to Change Order)											
☐	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description	Actions
☒	✓ 1 / 2.88 MiB	*	*	*	LAN Address	443 80	*	*		Anti-Lockout Rule	
☐	✓ 0 / 55 KiB	IPv4 *	LAN net	*	*	*	*	none		Default allow LAN to any rule	
☐	✓ 0 / 0 B	IPv6 *	LAN net	*	*	*	*	none		Default allow LAN IPv6 to any rule	

TASK 2

Configure firewall rules for the following scenarios:

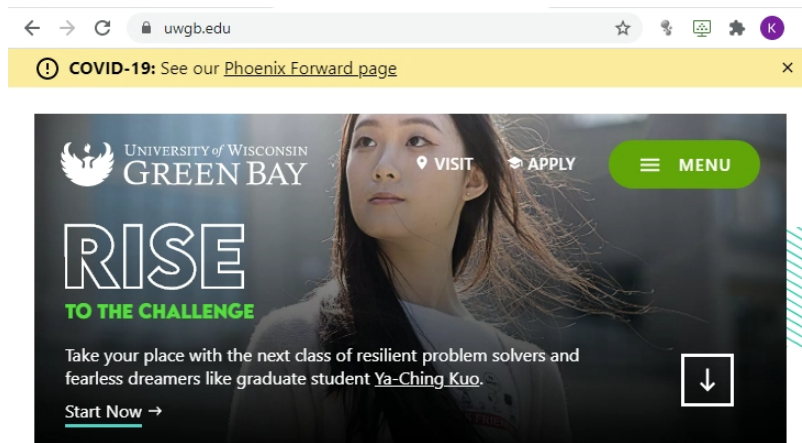
- Allow web traffic for VM-1 to be accessible only from Parent-VM.
- Block remote desktop traffic from the Parent-VM to VM-1.
- Block ping to VM-1.
- Block all other ports for VM-1 to the world.

☐	States	Protocol	Source	Port	Destination	Port	Gateway	Queue	Schedule	Description
☒	✗ 0 / 0 B	*	Reserved Not assigned by IANA	*	*	*	*	*		Block bogon networks
☐	✗ 0 / 0 B	IPv4 TCP	192.68.202.0/24	3389 (MS RDP)	172.30.1.5	*	*	none		Block_RDP_from_Parent-VM_to_VM-1
☐	✓ 0 / 0 B	IPv4 TCP/UDP	192.168.202.0/24	*	172.30.1.5	443 (HTTPS)	*	none		Allow_ParentVM_to_VM-1_(Webserver)_Port443
☐	✓ 0 / 0 B	IPv4 TCP/UDP	192.168.202.0/24	*	172.30.1.5	80 (HTTP)	*	none		Allow_ParentVM_to_VM-1_(Webserver)_Port80
☐	✗ 0 / 12 KiB	IPv4 ICMP any	*	*	172.30.1.200	*	*	none		Block ping
☐	✗ 0 / 0 B	IPv4 *	*	*	172.30.1.5	*	*	none		Block ANY to 172.30.1.5 via WAN interface
☐	✓ 0 / 0 B	IPv4 *	*	*	172.30.1.5	*	*	none		Allow ANY to 172.30.1.5 via WAN interface
☐	✓ 0 / 0 B	IPv4 TCP	*	*	This Firewall	443 (HTTPS)	*	none		Allow pfSense Management via WAN Interface
☐	✗ 0 / 0 B	IPv4 TCP	*	*	*	*	*	none		Block all other ports for VM-1 to the world

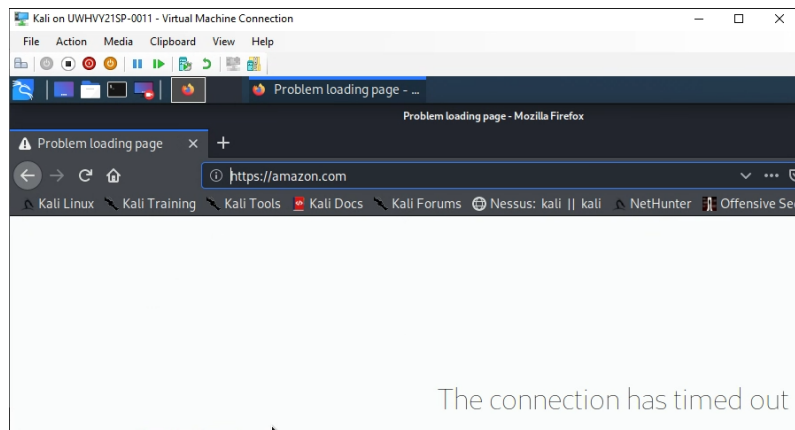
TASK 3

Test if the configured firewall rules are working.

- Check if you are able to access the web server on VM-1 from the Parent-VM.



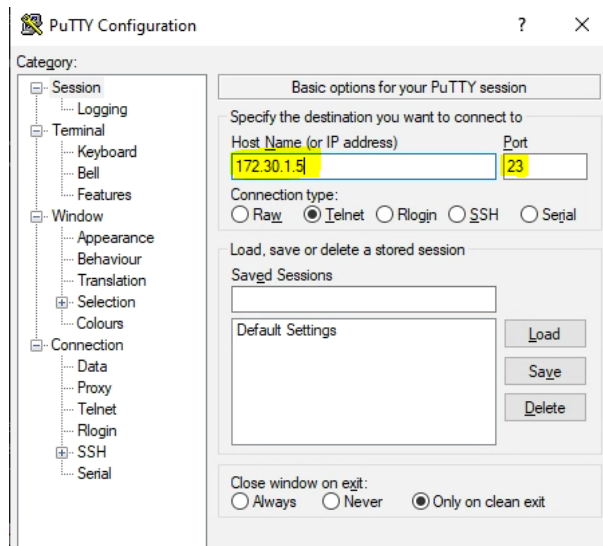
Access to the web via Parent-VM.



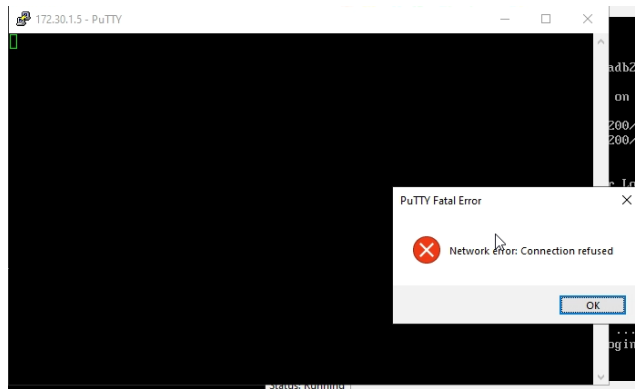
No access to the web via Kali VM.

TASK 4

How would you test if all other ports have been blocked by VM-1 from Parent-VM? Show a test for at least one port from Parent-VM to VM-1.



Used PuTTY to Telnet into VM-1.



Unable to connect via Telnet to VM-1.