

XG-1541

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This Quick Start Guide covers the first time connection procedures for the Netgate 1541 1U Secure Router and also provides information needed to stay up and running.

CHAPTER

ONE

GETTING STARTED

Use the following steps to configure the TNSR Secure Router.

1. To configure the Network Interfaces and gaining access to the Internet, follow the instructions provided in the Zero-to-Ping documentation.

Note: Not all steps in the Zero-to-Ping documentation will be necessary for every configuration scenario.

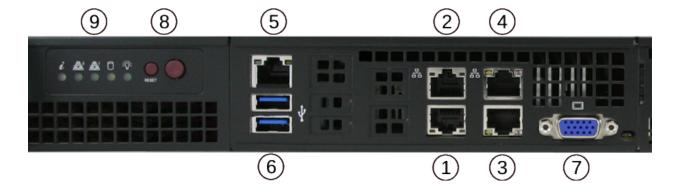
- 2. Once the Host OS is capable of reaching the Internet, check for updates (Updating TNSR) before proceeding. This ensures the security and integrity of the router before TNSR interfaces are exposed to the Internet.
- 3. Finally, configure the TNSR instance to meet the specific use case. The topics are listed on the left column of the TNSR Documentation site. There are also TNSR Configuration Example Recipes that might be of assistance when configuring TNSR.

INPUT AND OUTPUT PORTS

Contents

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 - With 4 Port Intel 10 Gbps X710 SFP+ Expansion Card

2.1 Default Configuration



2.1.1 Network Ports

Port	Linux Label	TNSR Label	Port Type	Port Speed
1	eno1	GigabitEthernet6/0/0	RJ-45	1 Gbps
2	eno2	GigabitEthernet6/0/1	RJ-45	1 Gbps
3	eno3	TenGigabitEthernet3/0/0	RJ-45	10 Gbps
4	eno4	TenGigabitEthernet3/0/1	RJ-45	10 Gbps

Note: Default Host OS Interface is eno1. The Host OS Interface is one network interface that is only available to the host OS and not available in TNSR. Though technically optional, the best practice is to have one for accessing and updating the host OS.

2.1.2 Other I/O

Port	I/O Type
5	IPMI
6	2x USB 3.0
7	VGA
8	Reset & Power buttons
9	Status LEDs (see table below)

2.1.3 Status LEDs



LED	State	Description
9a		
	Continuously on and red	An overheat condition has
		occurred.
		(This may be caused by cable
		congestion.)
	Blinking red (1Hz)	Fan failure, check for an
		inoperative fan.
	Blinking red (0.25Hz)	Power failure, check for a
		non-operational power supply.
	Solid blue	Local UID has been activated. Use
		this function through
		IPMI to locate the server in a rack
		mount environment.
	Blinking blue	Remote UID is on. Use this
	Billiking olde	function through IPMI to
		identify the server from a remote
		location.
9b		
	Flashing	Indicates network activity on igb1
	Plasting	(upper left port).
		\ \frac{11}{1} \ \frac{1}{1} \ \frac{1} \ \frac{1}{1} \ \frac{1} \ \
9c		
	Flashing	Indicates network activity on igb0
		(lower left port).
9d		
	Flashing	Indicates IDE channel activity on
		the hard drive.
0.2		
9e		
	Illuminated	Indicates power is being supplied to
		the system power supply units. This LED should normally be
		illuminated when the
		system is operating.
	Off	Indicates no power is being supplied to the system power
© Copyright 2024 Rubicon Comn	unications LLC	supplied to the system power supply. System is powered off.
		Power of the state

2.2 With CPIC-8955 Accelerator Card with Intel® QuickAssist Technology



Port	Linux Label	TNSR Label	Port Type	Port Speed
1	eno1	GigabitEthernet6/0/0	RJ-45	1 Gbps
2	eno2	GigabitEthernet6/0/1	RJ-45	1 Gbps
3	eno3	TenGigabitEthernet3/0/0	RJ-45	10 Gbps
4	eno4	TenGigabitEthernet3/0/1	RJ-45	10 Gbps

Note: Default Host OS Interface is eno1. The Host OS Interface is one network interface that is only available to the host OS and not available in TNSR. Though technically optional, the best practice is to have one for accessing and updating the host OS.

2.3 With 2 Port Intel 1 Gbps Ethernet Expansion Card



Port	Linux Label	TNSR Label	Port Type	Port Speed	
1	ens2f0	GigabitEthernet5/0/0	RJ-45	1 Gbps	
2	ens2f1	GigabitEthernet5/0/1	RJ-45	1 Gbps	
3	eno1	GigabitEthernet7/0/0	RJ-45	1 Gbps	
4	eno2	GigabitEthernet7/0/1	RJ-45	1 Gbps	
5	eno3	TenGigabitEthernet3/0/0	RJ-45	10 Gbps	
6	eno4	TenGigabitEthernet3/0/1	RJ-45	10 Gbps	

Note: Default Host OS Interface is eno1. The Host OS Interface is one network interface that is only available to the host OS and not available in TNSR. Though technically optional, the best practice is to have one for accessing and

updating the host OS.

2.4 With 2 Port Intel 10 Gbps X710 SFP+ Expansion Card



Port	TNSR Label	Port Type	Port Speed
1	TenGigabitEthernet5/0/1	SFP+	10 Gbps
2	TenGigabitEthernet5/0/0	SFP+	10 Gbps
3	GigabitEthernet7/0/0	RJ-45	1 Gbps
4	GigabitEthernet7/0/1	RJ-45	1 Gbps
5	TenGigabitEthernet3/0/0	RJ-45	10 Gbps
6	TenGigabitEthernet3/0/1	RJ-45	10 Gbps

Note: Default Host OS Interface is eno1. The Host OS Interface is one network interface that is only available to the host OS and not available in TNSR. Though technically optional, the best practice is to have one for accessing and updating the host OS.

2.5 With 4 Port Intel 1 Gbps Ethernet Expansion Card



Port	Linux Label	TNSR Label	Port Type	Port Speed	
1	ens2f0	GigabitEthernet5/0/0	RJ-45	1 Gbps	
2	ens2f1	GigabitEthernet5/0/1	RJ-45	1 Gbps	
3	ens2f2	GigabitEthernet5/0/2	RJ-45	1 Gbps	
4	ens2f3	GigabitEthernet5/0/3	RJ-45	1 Gbps	
5	eno1	GigabitEthernet7/0/0	RJ-45	1 Gbps	
6	eno2	GigabitEthernet7/0/1	RJ-45	1 Gbps	
7	eno3	TenGigabitEthernet3/0/0	RJ-45	10 Gbps	
8	eno4	TenGigabitEthernet3/0/1	RJ-45	10 Gbps	

Note: Default Host OS Interface is eno1. The Host OS Interface is one network interface that is only available to the host OS and not available in TNSR. Though technically optional, the best practice is to have one for accessing and updating the host OS.

2.6 With 4 Port Intel 10 Gbps X710 SFP+ Expansion Card



Port	TNSR Label	Port Type	Port Speed
1	TenGigabitEthernet5/0/3	SFP+	10 Gbps
2	TenGigabitEthernet5/0/2	SFP+	10 Gbps
3	TenGigabitEthernet5/0/1	SFP+	10 Gbps
4	TenGigabitEthernet5/0/0	SFP+	10 Gbps
5	GigabitEthernet7/0/0	RJ-45	1 Gbps
6	GigabitEthernet7/0/1	RJ-45	1 Gbps
7	TenGigabitEthernet3/0/0	RJ-45	10 Gbps
8	TenGigabitEthernet3/0/1	RJ-45	10 Gbps

Note: Default Host OS Interface is eno1. The Host OS Interface is one network interface that is only available to the host OS and not available in TNSR. Though technically optional, the best practice is to have one for accessing and updating the host OS.

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THREE

CONNECTING TO THE CONSOLE PORT

Connecting to the VGA console is identical to connecting any computer to a monitor. Connect the VGA cable (DB-15) between the Netgate appliance and the monitor. Use a USB or PS/2 keyboard and mouse as applicable to the hardware.

CHAPTER

FOUR

ADDITIONAL RESOURCES

4.1 Professional Services

Support does not cover more complex tasks such as network design and conversion from other firewalls. These items are offered as professional services and can be purchased and scheduled accordingly.

https://www.netgate.com/our-services/professional-services.html

4.2 Netgate Training

Netgate training offers training courses for increasing your knowledge of Netgate products and services. Whether you need to maintain or improve the security skills of your staff or offer highly specialized support and improve your customer satisfaction; Netgate training has got you covered.

https://www.netgate.com/training/

4.3 Resource Library

To learn more about how to use your Netgate appliance and for other helpful resources, make sure to browse our Resource Library.

https://www.netgate.com/resources/

CHAPTER

FIVE

WARRANTY AND SUPPORT

- One year manufacturer's warranty.
- Please contact Netgate for warranty information or view the Product Lifecycle page.
- All Specifications subject to change without notice.

Enterprise Support is included with an active software subscription, for more information view the Netgate Global Support page.

See also:

For more information on how to use pfSense® software, see the TNSR Documentation and Resource Library.