



vagrant vm-non-compliant

Manufacturer

vagrant

Model

vm-non-compliant

Firmware

123

MAC Address

54:53:52:51:50:49

Device Configuration

- ✓ Protocol
- ✓ Services
- ✓ Connection
- ✓ TLS
- ✓ DNS
- ✓ NTP

Test Status

Complete

Test Result

Non-Compliant

Started

2025-12-22 19:03:11

Duration

20m 12s

Results List (43/43)

Name	Description	Result	Required result
protocol.valid_bacnet	BACnet device could not be discovered	Feature Not Detected	Recommended
protocol.bacnet.version	Device did not respond to BACnet discovery	Feature Not Detected	Recommended
protocol.valid_modbus	Failed to confirm valid modbus communication Established connection to modbus port: 502 Holding registers could not be read: 0:5 Input registers could not be read: 0:5 Coil registers could not be read: 0:1 Discrete inputs could not be read: 0:1	Non-Compliant	Recommended
security.services.ftp	Found FTP server running on port 21/tcp	Non-Compliant	Required
security.ssh.version	SSH server found running 1.99 protocol 1.99	Non-Compliant	Required
security.services.telnet	Found telnet server running on port 23/tcp	Non-Compliant	Required
security.services.smtp	Found SMTP server running on port 25/tcp	Non-Compliant	Required
security.services.http	Found HTTP server running on port 80/tcp	Non-Compliant	Required



vagrant vm-non-compliant



Results List (43/43)

Name	Description	Result	Required result
security.services.pop	Found POP server running on port 110/tcp	Non-Compliant	✱ Required
security.services.imap	Found IMAP server running on port 143/tcp	Non-Compliant	✱ Required
security.services.snmpv3	Found SNMP server running on port 161/udp	Non-Compliant	✱ Required
security.services.vnc	Found VNC server running on port 5901/tcp	Non-Compliant	✱ Required
security.services.tftp	Found TFTP server running on port 69/udp	Non-Compliant	✱ Required
ntp.network.ntp_server	No NTP server found	Compliant	✱ Required
protocol.services.bacnet	No BACnet server found	Informational	i Informational
connection.port_link	No port errors detected	Compliant	✱ Required
connection.port_speed	Interface not configured for auto-negotiation	Non-Compliant	✱ Required
connection.port_duplex	Interface not configured for auto-negotiation	Non-Compliant	✱ Required
connection.switch.arp_inspection	Device is sending false ARP response	Non-Compliant	✱ Required
connection.switch.dhcp_snoopi...	Device has sent disallowed DHCP message	Non-Compliant	✱ Required
connection.dhcp_address	Device responded to leased IP address	Compliant	✱ Required
connection.mac_address	MAC address found: 54:53:52:51:50:49	Compliant	✱ Required
connection.mac_oui	No OUI Manufacturer found for: 54:53:52:51:50:49	Non-Compliant	✱ Required
connection.private_address	Subnet 172.16.0.0-172.16.255.255 failed Device does not have active lease, cannot test subnet change. Subnet 192.168.0.0-192.168.255.255 skipped	Non-Compliant	✱ Required
connection.shared_address	Ensure the device supports RFC 6598 IANA-Reserved IPv4 Prefix for Shared Address Space	Non-Compliant	✱ Required
connection.dhcp_disconnect	Device received a DHCP lease after disconnect	Compliant	✱ Required



vagrant vm-non-compliant



Results List (43/43)

Name	Description	Result	Required result
connection.dhcp_disconnect_ip...	Device received expected IP address after disconnect	Compliant	✳ Required
connection.single_ip	Device is using a single IP address	Compliant	✳ Required
connection.target_ping	Device responds to ping	Compliant	✳ Required
connection.ipaddr.ip_change	Device has accepted an IP address change	Compliant	✳ Required
connection.ipaddr.dhcp_failover	Secondary DHCP server lease confirmed active in device	Compliant	✳ Required
connection.ipv6_slaac	Device does not support IPv6	Non-Compliant	✳ Required
connection.ipv6_ping	No IPv6 SLAAC address found. Cannot ping	Non-Compliant	✳ Required
security.tls.v1_0_client	No outbound TLS connections were found	Feature Not Detected	✳ Required if Applicable
security.tls.v1_2_server	TLS 1.2 certificate could not be validated TLS 1.2 certificate could not be validated.	Feature Not Detected	✳ Required if Applicable
security.tls.v1_2_client	No outbound TLS connections were found	Feature Not Detected	✳ Required if Applicable
security.tls.v1_3_server	TLS 1.3 certificate could not be validated Failed to resolve public certificate	Feature Not Detected	i Informational
security.tls.v1_3_client	No outbound TLS connections were found	Feature Not Detected	i Informational
dns.network.hostname_resolution	No DNS traffic detected from the device	Non-Compliant	✳ Required
dns.network.from_dhcp	No DNS traffic detected from the device to the DHCP DNS server	Informational	i Informational
dns.mdns	No MDNS traffic detected from the device	Informational	i Informational
ntp.network.ntp_support	Device sent NTPv3 and NTPv4 packets	Compliant	✳ Required
ntp.network.ntp_dhcp	Device sent NTP request to DHCP provided server and non-DHCP provided server	Non-Compliant	📅 Roadmap



Non-compliant tests and suggested steps to resolve

1.

Name

security.services.ftp

Description

Found FTP server running on port 21/tcp

Steps to resolve

1. Disable the FTP server
2. Switch to a secure SFTP server

2.

Name

security.ssh.version

Description

SSH server found running 1.99 protocol 1.99

Steps to resolve

1. Disable the SSH server
2. Upgrade the SSH server to at least protocol 2.0

3.

Name

security.services.telnet

Description

Found telnet server running on port 23/tcp

Steps to resolve

1. Disable the Telnet server
2. Use SSH instead of Telnet if required

4.

Name

security.services.smtp

Description

Found SMTP server running on port 25/tcp

Steps to resolve

1. Disable the SMTP server



vagrant vm-non-compliant



5.

Name

security.services.http

Description

Found HTTP server running on port 80/tcp

Steps to resolve

1. Disable all unsecure HTTP servers
2. Setup TLS on the web server

6.

Name

security.services.pop

Description

Found POP server running on port 110/tcp

Steps to resolve

1. Disable the POP server

7.

Name

security.services.imap

Description

Found IMAP server running on port 143/tcp

Steps to resolve

1. Disable the IMAP server

8.

Name

security.services.snmpv3

Description

Found SNMP server running on port 161/udp

Steps to resolve

1. Disable the SNMP server
2. Upgrade to SNMPv3 if it is an essential service



vagrant vm-non-compliant



9.

Name
security.services.vnc

Description
Found VNC server running on port 5901/tcp

Steps to resolve
1. Disable the VNC server

10.

Name
security.services.tftp

Description
Found TFTP server running on port 69/udp

Steps to resolve
1. Disable the TFTP server

11.

Name
connection.mac_oui

Description
No OUI Manufacturer found for: 54:53:52:51:50:49

Steps to resolve
1. Register the device MAC address with IEEE

12.

Name
connection.private_address

Description
Subnet 172.16.0.0-172.16.255.255 failed Device does not have active lease, cannot test subnet change.
Subnet 192.168.0.0-192.168.255.255 skipped

Steps to resolve
1. Install a DHCP client that supports private address space



vagrant vm-non-compliant



13.

Name
connection.shared_address

Description

Ensure the device supports RFC 6598 IANA-Reserved IPv4 Prefix for Shared Address Space

Steps to resolve

1. Install a DHCP client that supports shared address space
2. Enable shared address space support in the DHCP client

14.

Name	Description
connection.ipv6_slaac	Device does not support IPv6

Steps to resolve

1. Install a network manager that supports IPv6
2. Disable DHCPv6

15.

Name	Description
connection.ipv6_ping	No IPv6 SLAAC address found. Cannot ping

Steps to resolve

1. Enable ping response to IPv6 ICMP requests in network manager settings
2. Create a firewall exception to allow ICMPv6 via LAN

16.

Name	Description
dns.network.hostname_resolution	No DNS traffic detected from the device

Steps to resolve

1. Install a supported DNS client
2. Ensure DNS servers have been set correctly
3. Ensure the gateway IP has been set and the device has internet access



vagrant vm-non-compliant



17.

Name

ntp.network.ntp_dhcp

Description

Device sent NTP request to DHCP provided server and non-DHCP provided server

Steps to resolve

1. Install an NTP client that supports fetching the NTP servers from DHCP options



Services Module

TCP ports open	UDP ports open	Total ports open
9	2	11

Port	State	Service	Version
21/tcp	open	ftp	
22/tcp	open	ssh	1.99 protocol 1.99
23/tcp	open	telnet	
25/tcp	open	smtp	
80/tcp	open	http	
110/tcp	open	pop3	
143/tcp	open	imap	
502/tcp	open	modbus	
5901/tcp	open	vnc	protocol 3.8
69/udp	open	tftp	
161/udp	open	snmp	



vagrant vm-non-compliant



TLS Module



No TLS certificates found on the device




Outbound Connections

Destination IP	Port
8.8.8.8	123
185.125.190.58	123



DNS Module

Requests to local DNS server	Requests to external DNS servers	Total DNS requests	Total DNS responses
0	0	0	0

 No DNS traffic detected from the device



NTP Module

Requests to local NTP server	Requests to external NTP servers	Total NTP requests	Total NTP responses
1278	1262	2540	679

Source	Destination	Type	Version	Count	Sync Request Average
10.10.10.14	10.10.10.5	Client	3	1262	0.957 seconds
10.10.10.14	8.8.8.8	Client	3	1261	0.958 seconds
10.10.10.100	185.125.190.58	Client	4	1	0.000 seconds
10.10.10.5	10.10.10.14	Server	3	661	N/A
10.10.10.14	10.10.10.5	Client	4	14	87.887 seconds
10.10.10.14	10.10.10.5	Server	0	2	N/A
10.10.10.5	10.10.10.14	Server	4	14	N/A
10.10.10.30	10.10.10.5	Client	4	2	32.161 seconds
10.10.10.5	10.10.10.30	Server	4	2	N/A



Device profile

Question		Answer
1.	What type of device is this?	IoT Gateway
2.	Please select the technology this device falls into	Hardware - Access Control
3.	Does your device process any sensitive information?	No
4.	Can all non-essential services be disabled on your device?	No
5.	Is there a second IP port on the device?	No
6.	Can the second IP port on your device be disabled?	No