DEVICE QUALIFICATION TESTRUN REPORT

vagrant vm-compliant

Manufacturer
vagrant

Model
vm-compliant

Firmware
123

MAC Address
f0:d4:e2:f2:f5:41

Device Configuration
- ✔ Protocol
- ✔ Services
- ✔ Connection
- ✔ TLS
- ✔ DNS
- ✔ NTP

Test Status
Complete

Test Result
Compliant

Started
2025-12-23 15:14:16

Duration
22m 24s

Results List (43/43)

Name	Description	Result	Required result
protocol.valid_bacnet	BACnet device discovered	Compliant	Recommended
protocol.bacnet.version	Device uses BACnet version 1.24	Compliant	Recommended
protocol.valid_modbus	Valid modbus communication detected	Compliant	Recommended
security.services.ftp	No FTP server found	Compliant	Required
security.ssh.version	SSH server found running 9.6p1 Ubuntu 3ubuntu13.14 ...	Compliant	Required
security.services.telnet	No telnet server found	Compliant	Required
security.services.smtp	No SMTP server found	Compliant	Required
security.services.http	No HTTP server found	Compliant	Required
security.services.pop	No POP server found	Compliant	Required
security.services.imap	No IMAP server found	Compliant	Required
security.services.snmpv3	No SNMP server found	Compliant	Required

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Name	Description	Result	Required result
security.services.vnc	No VNC server found	Compliant	Required
security.services.tftp	No TFTP server found	Compliant	Required
ntp.network.ntp_server	No NTP server found	Compliant	Required
protocol.services.bacnet	Found BACnet server running on port 47808/udp	Informational	Informational
connection.port_link	No port errors detected	Compliant	Required
connection.port_speed	Succesfully auto-negotiated speeds above 10 Mbps	Compliant	Required
connection.port_duplex	Succesfully auto-negotiated full duplex	Compliant	Required
connection.switch.arp_inspection	Device uses ARP correctly	Compliant	Required
connection.switch.dhcp_snoopi...	Device does not act as a DHCP server	Compliant	Required
connection.dhcp_address	Device responded to leased IP address	Compliant	Required
connection.mac_address	MAC address found: f0:d4:e2:f2:f5:41	Compliant	Required
connection.mac_oui	OUI Manufacturer found: Dell Inc.	Compliant	Required
connection.private_address	All subnets are supported	Compliant	Required
connection.shared_address	All subnets are supported	Compliant	Required
connection.dhcp_disconnect	Device received a DHCP lease after disconnect	Compliant	Required
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 dev...	Compliant	Required

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Results List (43/43)

Name	Description	Result	Required result
connection.ipv6_slaac	Device has formed SLAAC address fd10:77be:4186:0:f...	Compliant	Required
connection.ipv6_ping	Device responds to IPv6 ping on fd10:77be:4186:0:f2d...	Compliant	Required
security.tls.v1_0_client	TLS 1.0 or higher detected	Compliant	Required if Applicable
security.tls.v1_2_server	TLS 1.2 certificate valid on ports: 443	Compliant	Required if Applicable
security.tls.v1_2_client	TLS 1.2 client connections valid	Compliant	Required if Applicable
security.tls.v1_3_server	TLS 1.3 certificate valid on ports: 443	Informational	Informational
security.tls.v1_3_client	TLS 1.3 client connections valid	Informational	Informational
dns.network.hostname_resolution	DNS traffic detected from device	Compliant	Required
dns.network.from_dhcp	DNS traffic detected only to DHCP provided server	Informational	Informational
dns.mdns	MDNS traffic detected from device	Informational	Informational
ntp.network.ntp_support	Device sent NTPv4 packets	Compliant	Required
ntp.network.ntp_dhcp	Device sent NTP request to DHCP provided server	Compliant	Roadmap

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Services Module

TCP ports open	UDP ports open	Total ports open
3	1	4

Port	State	Service	Version
22/tcp	open	ssh	9.6p1 Ubuntu 3ubuntu13.14 Ubuntu Linux; protocol 2.0
443/tcp	open	http	1.24.0 Ubuntu
502/tcp	open	modbus	
47808/udp	open	bacnet	

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TLS Module

Expiry	Length	Type	Port number	Signed by
2026-12-23 12:25:41	1117	RSA	443	MyOrgCA

Certificate Information

Property	Value
Version	3 (0x2)
Signature Alg.	sha256WithRSAEncryption
Validity from	2025-12-23 12:25:41
Valid to	2026-12-23 12:25:41

Subject Information

Property	Value
C	RU
O	MyOrganization
CN	192.168.121.227

Certificate Extensions

Property	Value
subjectAltName	
subjectKeyIdentifier	digest=6cd26e18724344bcac6fc8e49b7957d049808930
authorityKeyIdentifier	key_identifier=d76797703a0fdf20cc036075fa6462800f1ade88, authority_cert_issuer=None, authority_cert_serial_number=None

Outbound Connections

Destination IP	Port
224.0.0.22	Unknown
224.0.0.251	5353
104.154.89.105	1010
104.154.89.105	1012
104.154.89.105	443
142.250.109.106	443
142.250.109.99	443
142.250.109.147	443
142.250.109.105	443
172.217.18.4	443

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DNS Module

Requests to local DNS server	Requests to external DNS servers	Total DNS requests	Total DNS responses
1384	30	1414	1392

Source	Destination	Resolved IP	Type	URL
10.10.10.14	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2.e.4.d.2.f.0.0.0.0.6.8.1.4.e.b.7.7.0.1.d.f.ip6.arpa
10.10.10.14	224.0.0.251	N/A	Response	N/
10.10.10.14	10.10.10.4	N/A	Query	tls-v1-0.badssl.com
10.10.10.4	10.10.10.14	104.154.89.105	Response	tls-v1-0.badssl.com
10.10.10.4	10.10.10.14	N/A	Response	tls-v1-0.badssl.com
10.10.10.14	10.10.10.4	N/A	Query	tls-v1-2.badssl.com
10.10.10.4	10.10.10.14	104.154.89.105	Response	tls-v1-2.badssl.com
10.10.10.4	10.10.10.14	N/A	Response	tls-v1-2.badssl.com
10.10.10.14	224.0.0.251	10.10.10.14	Response	N/
10.10.10.14	224.0.0.251	fd10:77be:4186:0:f2d4:e2ff:fef2:f541	Response	N/
10.10.10.14	10.10.10.4	N/A	Query	tls13.badssl.com
10.10.10.4	10.10.10.14	104.154.89.105	Response	tls13.badssl.com
10.10.10.4	10.10.10.14	N/A	Response	tls13.badssl.com
10.10.10.14	10.10.10.4	N/A	Query	www.google.com
10.10.10.4	10.10.10.14	172.217.18.4	Response	www.google.com

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Requests to local DNS server	Requests to external DNS servers	Total DNS requests	Total DNS responses
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Source	Destination	Resolved IP	Type	URL
10.10.10.4	10.10.10.14	2a00:1450:4001:80f::2004	Response	www.google.com
10.10.10.4	10.10.10.14	2a00:1450:4025:800::93	Response	www.google.com
10.10.10.4	10.10.10.14	2a00:1450:4025:800::69	Response	www.google.com
10.10.10.4	10.10.10.14	2a00:1450:4025:800::63	Response	www.google.com
10.10.10.4	10.10.10.14	2a00:1450:4025:800::6a	Response	www.google.com
10.10.10.4	10.10.10.14	142.250.109.106	Response	www.google.com
10.10.10.4	10.10.10.14	142.250.109.103	Response	www.google.com
10.10.10.4	10.10.10.14	142.250.109.105	Response	www.google.com
10.10.10.4	10.10.10.14	142.250.109.147	Response	www.google.com
10.10.10.4	10.10.10.14	142.250.109.104	Response	www.google.com
10.10.10.4	10.10.10.14	2a00:1450:4001:80b::2004	Response	www.google.com
10.10.10.4	10.10.10.14	142.250.109.99	Response	www.google.com
192.168.121.227	10.10.10.4	N/A	Query	tls-v1-2.badssl.com
192.168.121.227	10.10.10.4	N/A	Query	tls13.badssl.com
10.0.0.100	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2.e.4.d.2.f.0.0.0.0.6.8.1.4.e.b.7.7.0.1.d.f.ip6.arpa

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Source	Destination	Resolved IP	Type	URL
10.0.0.100	224.0.0.251	N/A	Response	N/
10.0.0.100	224.0.0.251	10.0.0.100	Response	N/
10.0.0.100	224.0.0.251	fd10:77be:4186:0:f2d4:e2ff:fef2:f541	Response	N/
10.0.0.100	10.10.10.4	N/A	Query	www.google.com
10.0.0.100	10.10.10.4	N/A	Query	www.google.com
172.16.222.41	224.0.0.251	N/A	Response	N/
172.16.222.41	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2.e.4.d.2.f.0.0.0.0.6.8.1.4.e.b.7.7.0.1.d.f.ip6.arpa
172.16.222.41	224.0.0.251	172.16.222.41	Response	N/
172.16.222.41	224.0.0.251	fd10:77be:4186:0:f2d4:e2ff:fef2:f541	Response	N/
172.16.222.41	10.10.10.4	N/A	Query	www.google.com
192.168.121.227	10.10.10.4	N/A	Query	www.google.com
192.168.240.6	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2.e.4.d.2.f.0.0.0.0.6.8.1.4.e.b.7.7.0.1.d.f.ip6.arpa
192.168.240.6	224.0.0.251	N/A	Response	N/
192.168.240.6	224.0.0.251	192.168.240.6	Response	N/
192.168.240.6	224.0.0.251	fd10:77be:4186:0:f2d4:e2ff:fef2:f541	Response	N/

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Source	Destination	Resolved IP	Type	URL
192.168.240.6	10.10.10.4	N/A	Query	www.google.com
10.10.10.4	10.10.10.14	2a00:1450:4001:830::2004	Response	www.google.com
100.64.134.249	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2 0.0.0.0.6.8.1.4.e.b.7
100.64.134.249	224.0.0.251	N/A	Response	N/
100.64.134.249	10.10.10.4	N/A	Query	www.google.com
100.64.134.249	224.0.0.251	100.64.134.249	Response	N/
100.64.134.249	10.10.10.4	N/A	Query	tls-v1-0.badssl.com
100.64.134.249	224.0.0.251	fd10:77be: 4186:0:f2d4:e2ff:fef2:f541	Response	N/
10.10.10.4	10.10.10.14	2001:4860:482c:7700::	Response	www.google.com
10.10.10.4	10.10.10.14	2001:4860:482d:7700::	Response	www.google.com
10.10.10.13	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2 0.0.0.0.0.0.0.0.0.0.6
10.10.10.13	224.0.0.251	N/A	Response	N/
10.10.10.13	224.0.0.251	10.10.10.13	Response	N/
10.10.10.13	224.0.0.251	fd10:77be: 4186:0:f2d4:e2ff:fef2:f541	Response	N/
10.10.10.13	224.0.0.251	fe80::f2d4:e2ff:fef2:f541	Response	N/

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Source	Destination	Resolved IP	Type	URL	Count
10.10.10.13	224.0.0.251	N/A	Query	1.4.5.f.2.f.e.f.f.f.2.e.4.d.2.f.0.0.0.0.6.8.1.4.e.b.7.7.0.1.d.f.ip6.arpa	3
10.10.10.13	10.10.10.4	N/A	Query	tls-v1-0.badssl.com	179
10.10.10.4	10.10.10.13	104.154.89.105	Response	tls-v1-0.badssl.com	59
10.10.10.4	10.10.10.13	N/A	Response	tls-v1-0.badssl.com	120
10.10.10.13	10.10.10.4	N/A	Query	tls-v1-2.badssl.com	236
10.10.10.4	10.10.10.13	104.154.89.105	Response	tls-v1-2.badssl.com	116
10.10.10.4	10.10.10.13	N/A	Response	tls-v1-2.badssl.com	120
10.10.10.13	10.10.10.4	N/A	Query	tls13.badssl.com	236
10.10.10.4	10.10.10.13	104.154.89.105	Response	tls13.badssl.com	116
10.10.10.4	10.10.10.13	N/A	Response	tls13.badssl.com	120
10.10.10.13	10.10.10.4	N/A	Query	www.google.com	130
10.10.10.4	10.10.10.13	2001:4860:4828:7700::	Response	www.google.com	1
10.10.10.4	10.10.10.13	142.250.109.105	Response	www.google.com	5
10.10.10.4	10.10.10.13	142.250.109.104	Response	www.google.com	2
10.10.10.4	10.10.10.13	142.250.109.147	Response	www.google.com	3

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Requests to local DNS server	Requests to external DNS servers	Total DNS requests	Total DNS responses
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Source	Destination	Resolved IP	Type	URL	Count
10.10.10.4	10.10.10.13	142.250.109.103	Response	www.google.com	2
10.10.10.4	10.10.10.13	142.250.109.99	Response	www.google.com	1
10.10.10.4	10.10.10.13	142.250.109.106	Response	www.google.com	1
10.10.10.4	10.10.10.13	172.217.18.4	Response	www.google.com	37
10.10.10.4	10.10.10.13	2a00:1450:4025:800::93	Response	www.google.com	5
10.10.10.4	10.10.10.13	2a00:1450:4025:800::69	Response	www.google.com	4
10.10.10.4	10.10.10.13	2a00:1450:4025:800::68	Response	www.google.com	3
10.10.10.4	10.10.10.13	2a00:1450:4025:800::67	Response	www.google.com	3
10.10.10.4	10.10.10.13	142.250.120.104	Response	www.google.com	4
10.10.10.4	10.10.10.13	142.250.120.106	Response	www.google.com	3
10.10.10.4	10.10.10.13	142.250.120.147	Response	www.google.com	3
10.10.10.4	10.10.10.13	142.250.120.103	Response	www.google.com	3
10.10.10.4	10.10.10.13	142.250.120.99	Response	www.google.com	2
10.10.10.4	10.10.10.13	142.250.120.105	Response	www.google.com	2
10.10.10.4	10.10.10.13	2a00:1450:4001:80b::2004	Response	www.google.com	28

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Requests to local DNS server	Requests to external DNS servers	Total DNS requests	Total DNS responses
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Source	Destination	Resolved IP	Type	URL	Count
10.10.10.4	10.10.10.13	2a00:1450:4025:807::68	Response	www.google.com	6
10.10.10.4	10.10.10.13	2a00:1450:4025:807::67	Response	www.google.com	4
10.10.10.4	10.10.10.13	2a00:1450:4025:807::63	Response	www.google.com	4
10.10.10.4	10.10.10.13	2a00:1450:4025:807::69	Response	www.google.com	4

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NTP Module

Requests to local NTP server	Requests to external NTP servers	Total NTP requests	Total NTP responses
48	0	48	48

Source	Destination	Type	Version	Count	Sync Request Average
10.10.10.14	10.10.10.5	Client	4	30	19.151 seconds
10.10.10.5	10.10.10.14	Server	4	30	N/A
10.10.10.13	10.10.10.5	Client	4	18	41.712 seconds
10.10.10.5	10.10.10.13	Server	4	18	N/A

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Device profile

	Question	Answer
1.	What type of device is this?	IoT Gateway
2.	Please select the technology this device falls into	Hardware - Air quality
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