



Click Studios

Passwordstate

Open Port Requirements

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1 Overview

This document describes the ports that are required to be open in order for Passwordstate and all of its extra modules and tools to function correctly.

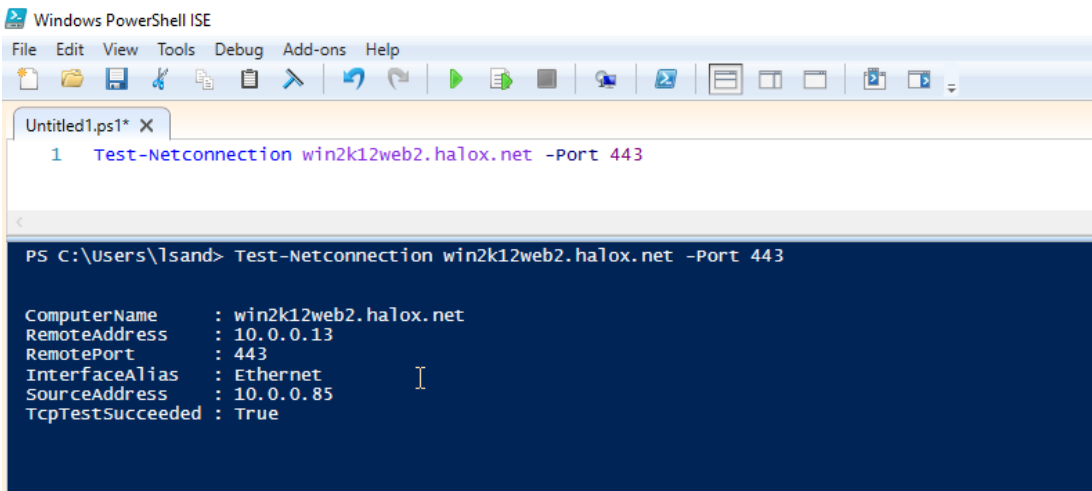
If you want to do some open port tests, you can use the following Powershell commands/syntax:

```
Test-Netconnection <server name> -Port <port number>
```

or

```
Test-Netconnection <url> -Port <port number>
```

For example, in my screenshot below, I am testing that my Passwordstate server is accessible on port 443:

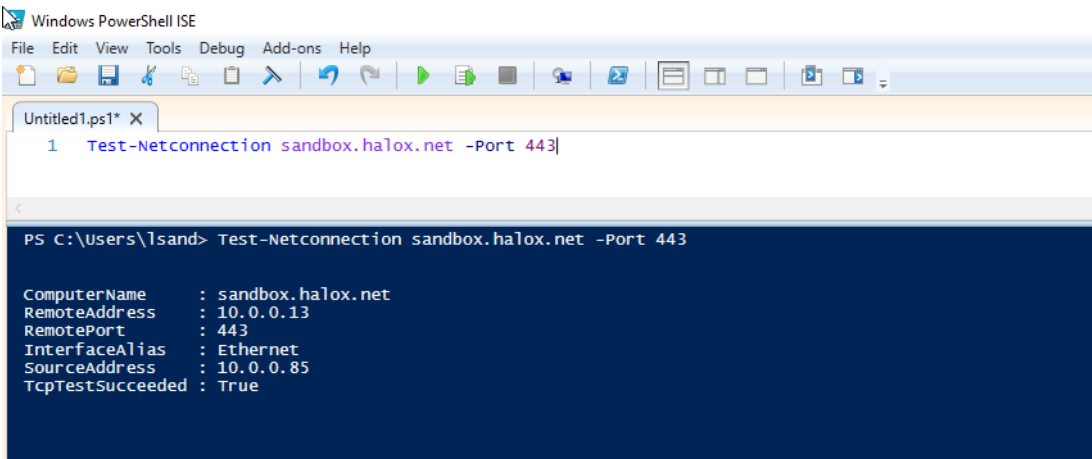


```
Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1* X
1 Test-Netconnection win2k12web2.halox.net -Port 443

PS C:\Users\lsand> Test-Netconnection win2k12web2.halox.net -Port 443

ComputerName      : win2k12web2.halox.net
RemoteAddress     : 10.0.0.13
RemotePort        : 443
InterfaceAlias    : Ethernet
SourceAddress     : 10.0.0.85
TcpTestSucceeded  : True
```

In my second screenshot, I am testing my Passwordstate URL is accessible on port 443:



```
Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1* X
1 Test-Netconnection sandbox.halox.net -Port 443

PS C:\Users\lsand> Test-Netconnection sandbox.halox.net -Port 443

ComputerName      : sandbox.halox.net
RemoteAddress     : 10.0.0.13
RemotePort        : 443
InterfaceAlias    : Ethernet
SourceAddress     : 10.0.0.85
TcpTestSucceeded  : True
```

As long as the **TcpTestSucceeded** is **True** then the port is open.

2 Main Passwordstate Website

By default, the Passwordstate website is installed with port **443**, which is the standard port used for HTTPS traffic.

You should allow any incoming HTTPS traffic on port **443** into your Passwordstate web server, unless otherwise modified.

Passwordstate also uses a Microsoft SQL database to store all of its information, and the default port for this is **1433**. If you host your database on a separate server to your Passwordstate install, then you should ensure this port is accessible from your Passwordstate web server.

3 Active Directory Integration

Passwordstate can be integrated with Active Directory to perform a number of tasks, like authenticating your users or synchronizing security groups etc. Your Passwordstate web server will need access to your domain controllers on port **389** for LDAP traffic, and **636** for LDAPS traffic if you are using LDAPS.

4 High Availability

If you are using the High Availability module and your second Passwordstate website is set to **Passive**, your second web server will need to be able to communicate to your primary webserver on the default website port. This is **443** unless you have modified this setting.

5 Passwordstate App Server

If you have installed the Passwordstate App Server, using for Mobile Apps and Self Destruct Message web site, you will need to allow access back to your Passwordstate database server, on the default SQL port of **1433** unless otherwise modified.

If you are using a SQL Listener for database connectivity, you will need to allow port 1434 UDP – unless you have modified the default port.

6 Browser Extensions

All browser extensions will need to securely communicate with your main Passwordstate website, and these also need access on the default website port, which is **443** unless otherwise modified.

7 Email Traffic

It's possible to configure Passwordstate with your email sever settings to allow it to automatically send notifications to your users for various reasons. If you have configured the system to send email you should ensure your Passwordstate web server can communicate to your email server and the default port for this is **25**.

If you configure your emails settings on any other port for SMTP traffic, you should ensure this port is open.

8 Account Discoveries

Discovery Type	Port(s)
Active Directory	TCP 389 or TCP 636, TCP 88 and TCP 445
Cisco IOS	SSH - TCP 22
Fortigate	SSH - TCP 22
Hosts (Computer accounts in AD)	389 or 636
HP H3C	SSH - TCP 22
Juniper Junos	SSH - TCP 22
Linux and Mac	SSH - TCP 22
MariaDB	TCP 3306
Microsoft SQL	TCP 1433
MySQL	TCP 3306
Oracle Database	TCP 1521
PostgreSQL	TCP 5432
SonicWall	SSH - TCP 22
Windows Dependencies	Powershell Remoting TCP 5985 & 5986 WMI negotiation on TCP 135
Windows Local Administrator	Powershell Remoting TCP 5985 & 5986 WMI negotiation on TCP 135

9 Password Resets

Password Reset Type	Port(s)
Active Directory	TCP 389 or TCP 636, TCP 88 and TCP 445
Cisco IOS	SSH - TCP 22
Dell iDRAC	SSH - TCP 22
F5 BIG-IP Advanced Shell Access	SSH - TCP 22
F5 BIG-IP TMSH Access	SSH - TCP 22
Fortigate	SSH - TCP 22
HP H3C	SSH - TCP 22
HP iLO	SSH - TCP 22
HP Procurve	SSH - TCP 22
Juniper Junos	SSH - TCP 22
Juniper ScreenOS	SSH - TCP 22
Linux and Mac	SSH - TCP 22
MariaDB	TCP 3306
Microsoft SQL	TCP 1433
MySQL	TCP 3306
Oracle Database	TCP 1521
PostgreSQL	TCP 5432
SonicWall	SSH - TCP 22
Windows COM+ Component	Powershell Remoting TCP 5985 & 5986
Windows IIS Application Pool	Powershell Remoting TCP 5985 & 5986
Windows Local Administrator	Powershell Remoting TCP 5985 & 5986
Windows Scheduled Task	Powershell Remoting TCP 5985 & 5986
Windows Service	Powershell Remoting TCP 5985 & 5986

10 Account Validation (Heartbeats)

Account Validation Type	Port(s)
Active Directory	TCP 389 or TCP 636, TCP 88 and TCP 445
Cisco IOS	SSH - TCP 22
Dell iDRAC	SSH - TCP 22
F5 BIG-IP	SSH - TCP 22
Fortigate	SSH - TCP 22
HP H3C	SSH - TCP 22
HP iLO	SSH - TCP 22
HP Procurve	SSH - TCP 22
Juniper Junos	SSH - TCP 22
Juniper ScreenOS	SSH - TCP 22
Linux and Mac	SSH - TCP 22
MariaDB	TCP 3306
Microsoft SQL	TCP 1433
MySQL	TCP 3306
Oracle Database	TCP 1521
PaloAlto	SSH – TCP 22
PostgreSQL	TCP 5432
SonicWall	SSH - TCP 22
Windows Local Administrator	135 or 445

11 Host Validation (Heartbeats)

Host Validation Type	Port(s)
Cisco IOS	Ping ICMPv4 or SSH - TCP 22
Dell iDRAC	Ping ICMPv4 or SSH - TCP 22
F5 BIG-IP	Ping ICMPv4 or SSH - TCP 22
Fortigate	Ping ICMPv4 or SSH - TCP 22
HP H3C	Ping ICMPv4 or SSH - TCP 22
HP iLO	Ping ICMPv4 or SSH - TCP 22
HP Procurve	Ping ICMPv4 or SSH - TCP 22
Juniper Junos	Ping ICMPv4 or SSH - TCP 22
Juniper ScreenOS	Ping ICMPv4 or SSH - TCP 22
Linux and Mac	Ping ICMPv4 or SSH - TCP 22
MariaDB	TCP 3306
Microsoft SQL	TCP 1433
MySQL	TCP 3306
Oracle Database	TCP 1521
PaloAlto	Ping ICMPv4 or SSH - TCP 22
PostgreSQL	TCP 5432
SonicWall	Ping ICMPv4 or SSH - TCP 22
Windows Local Administrator	135 or 445

12 Client Based Remote Session Launcher

Passwordstate has two remote session launchers, and the Client Based Remote Session launcher will use a number of different applications installed on your desktop to establish a connect to the remote host.

For this to work successfully, you will need to ensure the machine where you are accessing Passwordstate from can communicate to the remote host on the following ports:

Remote Session Type	Port(s)
RDP	3389
SSH	22
Telnet	22
VNC	5900
Microsoft SQL	1433
TeamViewer	5938, 80 or 443

13 Browser Based Remote Session Launcher

The Browser Based remote session launcher establishes all connections directly from the Browser Based Gateway Service. The Gateway Service is normally installed on the same server where you have Passwordstate installed, but it can be installed separately if you wish, or even on a remote site.

For Browser Based Sessions to work you will need to allow incoming traffic into your Gateway server on port **7273**, unless otherwise modified.

You will also need to ensure your Gateway service can communicate to any remote host on either port **22** for SSH, or **3389** for RDP connections.

14 Password Reset Portal

The Password Reset Portal is a separate website that users need to be able to access to reset or unlock their own Active Directory passwords. There is no default port that is configured by Click Studios during the install of this module, rather the IT Administrator will choose a port.

As this portal uses HTTPS, port **443** is the preferred port to choose. Which ever port you set on your Password Reset Portal, you will need to allow incoming traffic on this through all firewalls.

The Password Reset Portal will also need to connect back to your main Passwordstate website, so you need to ensure that the portal can communicate through the port you have configured in section 1 of this document, which by default is **443** unless otherwise modified.

For the Password Reset Portal to successfully contact and perform tasks on your domain controllers, you will also need to ensure the following ports are open between your Passwordstate webserver and your domain controllers:

LDAPS - Port **636**

Event Logs – Ports **135** and **49153**

15 Remote Site Locations

The Remote Site Locations module allows you to install an agent on a remote network, whether that be an internal firewalled network, or a site across the internet.

This agent needs to communicate back to your main Passwordstate website, so you need to ensure the server that you install this agent on can communicate through the port you have configured in section 1 of this document.

By default, this is **443** unless otherwise modified.

The objective of this agent is to perform Account Discoveries, Password Resets and Account Validations on the remote network, and the port requirements for this to work are the same as sections 8, 9, 10 and 11 of this document.