



ALARM LOCK

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Note: Technical Service is for security professionals only

ALARM LOCK Tech Support

TECH NOTE



Date: Thursday, March 30, 2023

Subject: Troubleshooting Server / Workstation Connection Issues

Models: DL-Windows V5

When attempting to connect a DL-Windows Workstation instance to an existing DL-Windows Server instance, issues may sometimes arise due to the installation site's network configuration. If you encounter a connectivity issue between the DL-Windows Server and Workstation installations, proceed as follows:

1. Verify all appropriate steps were taken for the initial installation: Ensure both instances are installed correctly, that the Server instance is set to be used in **Server Mode (Fig. 1A)**, and that all credentials were entered under the appropriate sections in the Workstation instance (**Fig. 1B**).

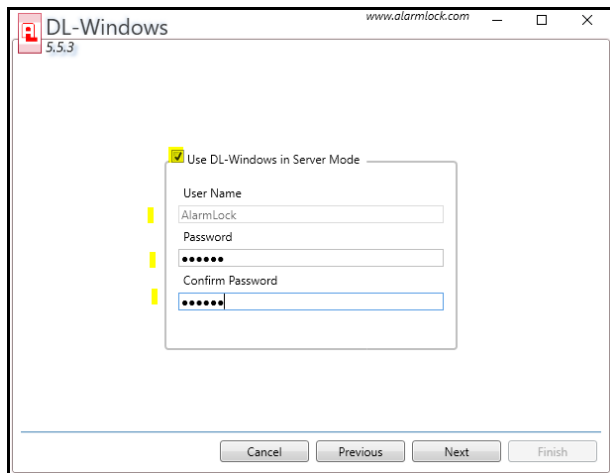


Fig.1A

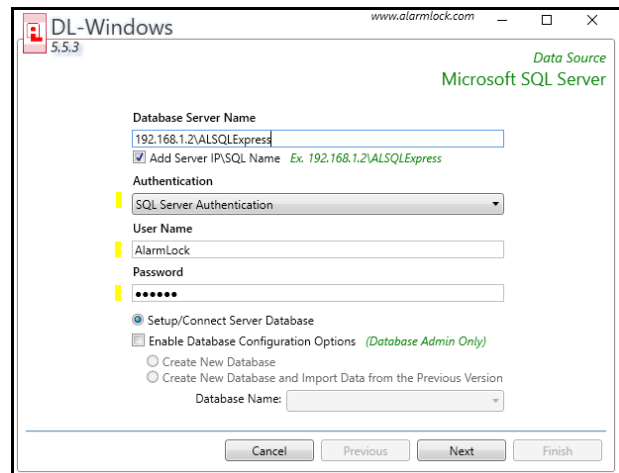


Fig. 1B

2. Verify that both instances of the DL-Windows software are on the same network: To do this, simply ping the IP address of the Server *from the Workstation computer* in a command prompt window (click **Start > Run > type cmd**). Type **ping x.x.x.x** (replace each x with the



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IP Address) and press **Enter**. If the ping is successful (see **Fig. 2A**), under **Ping statistics**, look for:

"Packets: Sent = 4, Received = 4, Lost = 0 (0% loss)"

If the ping is unsuccessful (see **Fig. 2B**), this section will read:

"Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)"

If the ping is unsuccessful, check the network configuration to determine why the two PCs are unable to communicate on the network (e.g., each PC may be on separate networks, a firewall issue might block communications, a network policy issue exists, etc.), then re-test until the ping is successful.

```
C:\Users\jalfano>ping 172.16.170.1

Pinging 172.16.170.1 with 32 bytes of data:
Reply from 172.16.170.1: bytes=32 time=2ms TTL=64
Reply from 172.16.170.1: bytes=32 time=2ms TTL=64
Reply from 172.16.170.1: bytes=32 time=2ms TTL=64
Reply from 172.16.170.1: bytes=32 time=3ms TTL=64

Ping statistics for 172.16.170.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
```

Fig.2A

```
C:\Users\jalfano>ping 10.1.1.1

Pinging 10.1.1.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.

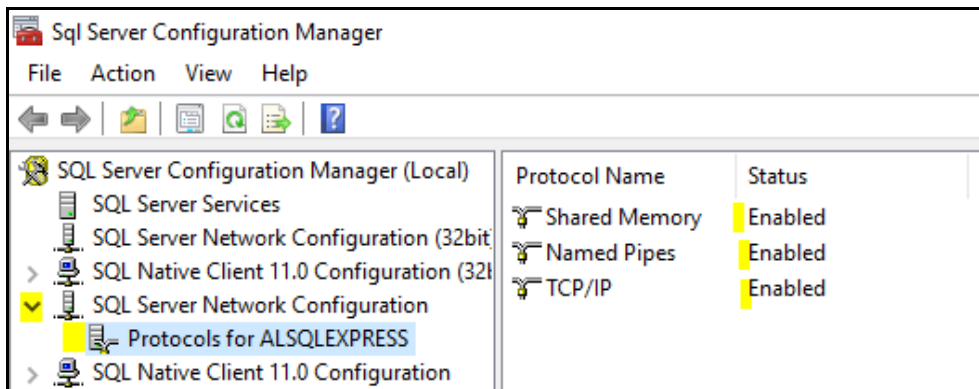
Ping statistics for 10.1.1.1:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

Fig. 2B

3. Ensure the Network Configuration Protocols are correctly configured for the DL-Windows SQL database, as follows:

3a. Open the **SQL Server Configuration Manager (Start > All Programs > Microsoft SQL Server 2012 > Configuration Tools > SQL Server Configuration Manager)**.

3b. In the **Configuration Manager**, locate a header on the left that reads, "**SQL Server Network Configuration**", click the pull-down and select **Protocols for ALSQLEXPRESS** (see **Fig. 3A**).





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3c. The main display of the **Configuration Manager** displays three options:

- **Shared Memory**
- **Named Pipes**
- **TCP/IP**

Ensure the status for all three options reads **Enabled**. If any are not enabled, right-click that option and select the **Enable** menu item.

3d. In the **Configuration Manager**, locate the header on the left that reads, "**SQL Server Services**".

The Instance Names of both **SQL Server (Instance Name)** and **SQL Server Browser** must BOTH be running and set to **Start Mode: "Automatic"**. If they are disabled or stopped, right-click each instance and select **Properties**, then set the **Startup type** to "**Automatic**" and start the service.

4. If the connectivity issue still exists, the Windows Firewall may be blocking access to the database. To unblock, create a rule within the network to allow communications between both instances of DL-Windows, as follows:

4a. Click **Start > Run** and type **Firewall.cpl** in the **Open** field and click **OK**.

Helpful Tip: Before continuing, try disabling Windows Firewall and re-launching the Database Configuration utility; if a Workstation is then able to locate the database, this will serve as a likely confirmation that the Windows Firewall is responsible for blocking access. If the connectivity issue still exists, continue with the rule creation process:

4b. Click **Advanced settings**.

4c. In the left pane, under **Windows Firewall with Advanced Security on Local Computer**, click **Inbound Rules**.

4d. On the right side under **Actions > Inbound Rules**, click **New Rule...**, and the **New Inbound Rule Wizard** dialog opens.

4e. Select the **Port** radio button and click **Next**.

4f. In the option, **Does this rule apply to TCP or UDP?**, verify **TCP** is selected (take special notice of this selection; keep it in mind for a later step). Also select **Specific local ports:** and type "**1433, 1434**" in this field (quotes omitted). Click **Next**.

4g. Verify the **Allow the connection** radio button is selected, then click **Next**.

4h. Verify ALL checkboxes are checked (**Domain, Private** and **Public**), then click **Next**.



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- 4i. In the **Name** field, type "**SQL PORTS**" (quotes omitted). Click **Finish**.
- 4j. Repeat steps **4a** through **4i**, but in step **4f** select **UDP** and continue through step **4i**.
- 4k. In the left pane, under **Windows Firewall with Advanced Security on Local Computer**, click **Outbound Rules**. Carefully repeat steps **4a** through **4j** (this will enable ports **1433** and **1434** for **TCP** and **UDP** outbound).