

Xcalar Quick Installation Guide

This quick installation guide provides basic instructions for installing Xcalar.

It assumes:

1. Your system meets the Xcalar hardware and software requirements and that the installation host and each cluster node is running the same Xcalar supported version of Linux OS.
2. That the **node0** node of your cluster contains enough storage space for an NFS export and is at least 1 terabyte in size.
3. That you created a Xcalar Admin user on each cluster node who has SUDO access to all the nodes within the cluster and who can run commands as SUDO.
4. That you can establish a SSH connection from the installation host to all the Xcalar cluster nodes as the Xcalar Admin user.
5. That the Xcalar supported web browser can access the installation host on port 8543.
6. That the SUDO program is installed on the installation host and each of Xcalar cluster nodes.
7. That the information requirements form located on the Xcalar customer portal is completed and the values are accessible to the user installing Xcalar.

Running the Xcalar GUI installer on the installation host

This section describes the procedures for running the Xcalar GUI installer.

The following tasks can be run by any user on the installation host who can run SUDO commands.

To run the Xcalar GUI installer on the Installation host:

1. Log in to the installation host as any user.
2. Verify that one of the recommended Linux operating systems is installed, by running one the following commands:
 - `cat /etc/os-release`
 - `cat /etc/redhat-release`

3. Download the Xcalar GUI Installer tar archive by doing the following:
 - a. On the Installation host, open a terminal.
 - b. Create a temporary directory (**temp_dir**).
 - c. Go to the Xcalar customer portal, by opening a browser window from the computer on which the Xcalar supported web browser is installed and entering the following:
<https://myxcalar.zendesk.com/>
 - d. Download the Xcalar GUI Installer `xcalar-gui-tar-userinstaller-version-build.sh` tar archive to the **temp_dir** that was created in step b.

Where:

- *version* is the Xcalar version number.
- *build* is the Xcalar software build number.
For example, `xcalar-gui-tar-userinstaller-1.2.1-1044.sh`.

- e. Verify that the Xcalar GUI Installer has read, write, and execute permissions.

4. Run the Xcalar GUI Installer with the following command:

```
./xcalar-gui-tar-userinstaller-version-build.sh
```

If successful, the command print output displays the following message:

```
Running installation shell archive, press Ctrl-C to stop
```

Installing Xcalar

This section describes the procedures for Installing, deploying, and configuring Xcalar Compute Engine and Xcalar Design.

To install Xcalar:

1. From the computer on which the Xcalar supported web browser is installed, open a browser window.
2. In the web browser URL field, enter the following URL:

```
https://ip_FQDN:8543
```

Where *ip_FQDN* is the IP address or FQDN name of the Installation host on which the Xcalar GUI Installer is running.

TIP: If the fully qualified domain name (FQDN) of the installation host is *host1.mycompany.com*, then enter **https://host1.mycompany.com:8543**.

3. Click **Enter**, which connects you to the Xcalar installer website.
The Xcalar Wizard MAKE A SELECTION page appears.
4. From the options provided, select **INSTALL WIZARD**.
5. Click **NEXT**. The ENTER LICENSE KEY page appears.
6. In the ENTER LICENSE KEY field, enter your Xcalar license key text exactly as provided and without trailing spaces.
7. Click **NEXT**. The Xcalar Wizard STEP 2 PRE-CONFIG STATUS page appears.
8. Select **No**.
9. Click **NEXT**. The Xcalar Wizard STEP 3 SET UP XCALAR ROOT DIRECTORY page appears.
10. Select **Xcalar Deployed Shared Storage**.
11. Click **NEXT**. The Xcalar Wizard STEP 4 SET UP LDAP page appears.
12. Select **Xcalar Deployed** and enter following:
 - a. In the DOMAIN NAME field, enter your company's web address.
 - b. In the NEW PASSWORD field, enter the password for the Xcalar Admin user.
 - c. In the CONFIRM PASSWORD field, re-enter the password of the Xcalar Admin user.
 - d. In the COMPANY NAME field, enter the full name of your company.
13. Click **NEXT**. The Xcalar Wizard STEP 5A SET UP NODES page appears.
14. In the **Enter the number of nodes in your cluster and press Enter** field, enter the number of nodes that reside in your computer cluster.
15. Click **NEXT**. The Xcalar Wizard STEP 5A SET UP NODES page refreshes to display the connection requirements for each of the nodes within your Xcalar cluster.
16. In the **Hostnames** section, enter the following for each node:
 - a. In the PUBLIC field, enter the IP address or the FQDN.
 - b. (Optional) In the PRIVATE field, enter the IP address or the FQDN.
17. In the STEP 5B **Installation Directory** section, enter the path and directory name for the Xcalar Install Directory or choose the default.

18. In the STEP 5C **Serialization/Deserialization Directory** section, enter the path and directory name of the Demand Paging area that will store temporary Xcalar tables when the memory swapping space is low.
19. In the STEP 5D **Credentials** section, enter the following:
 - a. In the USERNAME field, enter the Xcalar Admin user name (XCE_USER value).
 - b. In the SSH PORT field, enter the secure shell (SSH) port number. By default, this number is **22**.
20. In the **Password Options** section, do one of the following:
 - For authenticating access to all cluster nodes by Xcalar with a password, select **Password** and in the PASSWORD field, enter the password for the Xcalar Admin user.
 - For authenticating access to all cluster nodes by Xcalar with SSH using your SSL private key, select **SSH Key** and in the text field enter your SSL private key.
 - For authenticating access to all cluster nodes by Xcalar with SSH using an existing SSH user, select **SSH User Settings**.
21. Click **INSTALL**, which deploys Xcalar Compute Engine and Xcalar Design on all the nodes within the Xcalar cluster.
22. When the installation is completed, either click LAUNCH XD or connect to Xcalar Design on any of the Xcalar cluster nodes with the following URL:

`https://node_name:8443`

Where *node_name* is the IP address or FQDN of the Xcalar cluster node on which you logged in to.

Terms Used in this Guide

Term	Description
Xcalar cluster	A group of two or more bare metal computers or Cloud virtual machines (called nodes) that run Xcalar Design and Xcalar Compute Engine on each node.
Xcalar Admin	The operating system username that is used on all the nodes of the Xcalar cluster, which owns the Xcalar software and runs the Xcalar Design and Xcalar Compute Engine processes.
Xcalar Root Directory	The network file system mount (NFS) that is shared between all nodes of the Xcalar cluster. Xcalar Design and Xcalar Compute Engine write configuration information and session data into this filesystem.
Xcalar Install Directory	The directory on each node in which the Xcalar software is installed.
Xcalar GUI Installer	<p>A self-extracting shell archive file that contains a web server, a small web site, and software for installing Xcalar on all the Xcalar cluster nodes in parallel. The Xcalar GUI Installer can be run by any user on any host that has a Xcalar supported Linux operating system and can connect to all the Xcalar cluster nodes with a secure network.</p> <p>The Xcalar GUI Installer and the Configuration Tarball are downloaded from the Xcalar customer portal at:</p> <p>https://myxcalar.zendesk.com/.</p>
Installation host	The computer on which you run the Xcalar GUI Installer. This can be one of the nodes within the Xcalar cluster, or a host running the same version of the Xcalar supported Linux operating system that was installed on all the nodes within the Xcalar cluster.

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