

## LYNX-APP Installation for Windows

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This page will help you install the LYNX-APP (LYNX Application Component) in a Windows environment. Follow the steps in order and contact [email Series25 Support](#) or your assigned LYNX support analyst for assistance.

See [LYNX-APP Installation for Linux](#).

### Requirements for Installation:

- These instructions should be completed by your school's qualified Windows Systems Administrator.
- Ensure you have prepared your SIS database by deploying the necessary tables for database integration.
- The target server may need to be restarted during this process for installation to complete successfully.

## Java and Network Requirements

- Review [Series25 Technical Specifications](#)
- Ensure your target server for this installation is running a suitable version of Java.
  - Java 8, 11, 15, or 17 (32-bit or 64-bit) is currently supported.
  - Use Java 8 32-bit if you are installing the LYNX-APP component on the same server as one or more TCS Interface components.
  - Use Java 11, 15 or 17 if planning on encrypting passwords using Jasypt (see "Consider Encrypting Configuration Passwords" section below.)
- *Note: Please consult with your institution's IT department about where to source an appropriate Java version.*
- Ensure your target server can communicate with your SIS database through the desired JDBC port.
- Ensure your target server can communicate with CollegeNET's LYNX WebServices ( <https://LYNX.collegenet.com/> ... SSL / port 443 )
  - If your target server must use a proxy server to reach LYNX WebServices, this can be configured (more on this later).

## Retrieve Installation File

- Prepare to download the installation file.
- You can either download it directly on the target server, or download it to a separate machine and use a file transfer to your target server.
- The **LYNX-APP-win.zip** file can be downloaded at:

URL: <https://collegenet.files.com/f/e2802722d3c860d3/LYNX>

(Contact Series25 Support at [support@collegenet.com](mailto:support@collegenet.com) for credentials.)

## Consider Deployment Options

- Consider two options:
  - Install the Production LYNX-APP on the **same** server as the Test LYNX-APP.
  - Install the Production LYNX-APP on a **separate** server from the Test LYNX-APP.
- If you install Prod and Test on the same server, you will need to install the LYNX-APP folder twice. Example:
  - C:\LYNX-APP-Test
  - C:\LYNX-APP-Prod
  - In this case, run through the instructions below twice, once for each application instance. You will need to update a **wrapper.properties** file for each instance.
- It may be advisable to update **wrapper.properties** for each instance even if they are on different servers, as this will result in more clear labeling in the Windows Services panel.

## Copy Files

- Create a suitable installation target for the application. Example:

```
C:\LYNX-APP-Test\
```

- C: drive installations are common, but you may also use a separate volume if this is preferred. Example:

**E:\LYNX-APP-Test**

- Unzip application files from **LYNX-APP-win.zip** into the target directory.

## Update Configuration

- Navigate to the `~\LYNX-APP\config\` folder.
- Open the **wrapper.properties** file with a text editor for editing.
  - Update the following attributes to match the desired instance name. Examples:
    - `wrapper.console.title=LYNX-APP-TEST`
    - `wrapper.ntservice.name=LYNX-APP-TEST`
    - `wrapper.ntservice.displayname=LYNX-APP-TEST`
- Save the file and exit.
- Open the **application.properties** file with a text editor for editing.
  - Update this file with values for your instance.
  - `LYNX-url-prefix=https://lynx.collegenet.com/lynx-ws/sis/data/`
  - `LYNX-instance-id=` (Contact Product Support for this value)

- LYNX-username= (Contact Product Support for this value)
- LYNX-password= (Contact Product Support for this value)
- db-url=
  - Example Oracle string:
    - db-url=jdbc:oracle:thin:@//server:port/service\_name OR db-url=jdbc:oracle:thin:@server:port:SID
  - Example Microsoft SQL Server string:
    - db-url=jdbc:sqlserver://server.school.edu:1433;DatabaseName=LYNX
- db-username=
- db-password=
- If you will use a proxy server to reach LYNX WebServices, [configure this now](#).

### Install LYNX-APP Service

- Launch the Windows Command Prompt (cmd.exe) using **Run as administrator**
- Navigate to the `~\LYNX-APP\bat` directory (example)  
`cd C:\LYNX-APP-TEST\bat\`
- Run `installService.bat`
- Review output and ensure there is a success message:  
**Service LYNX-APP-TEST installed**  
**Press any key to continue . . .**
- Press any key to continue.
- Visit the Windows Services panel (**Start >> Services**) to ensure the LYNX-APP service was successfully installed.
- When ready, start the LYNX-APP service.
  - If you receive an error message similar to the following, restart the server and try to start the service again:
    - "Error 2: The system cannot find the file specified."
- LYNX-APP may start correctly, but stop itself if there is an error, such as a network connectivity error.
  - Ensure the process is still running after a few moments.
  - If LYNX does not start correctly, check the `~\LYNX-APP\logs\` folder to investigate possible causes.

### Review LYNX Dashboard

- If LYNX-APP starts correctly and continues to run, verify the LYNX Dashboard web page indicates "APP OK" and no errors are presented.
  - Example: <https://LYNX.collegenet.com/<instance-name>>

## Consider Encrypting Configuration Passwords

- You may wish to [encrypt the passwords](#) in your application.properties file.
- Test any additional steps in Test first.