

# LDAP Authentication on-premise

When hosting the system on-premise, additional configuration is required to enable LDAP / Active Directory authentication.

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## Tomcat Service Account

The application server (Tomcat) must run under a user account that has permission to query the Active Directory.

- Configure the Tomcat service to run as a dedicated **Active Directory user**
  - Ensure this user has:
    - Read access to the directory
    - Permission to perform user lookups
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## LDAPS Certificate Configuration

If you are using **LDAPS (recommended)**, the LDAP server's SSL certificate must be trusted by Java.

You must import the LDAP server certificate into the Java **keystore (truststore)** used by Tomcat.

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## Steps to Import Certificate

1. Export the SSL certificate from your LDAP / Domain Controller
2. Import the certificate into the Java keystore using:

```
keytool -importcert \  
-alias ldap-cert \  
-file ldap_certificate.crt \  
-keystore $JAVA_HOME/lib/security/cacerts
```

3. Restart Tomcat after importing the certificate
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## Steps Using Portecle

1. Download and start **Portecle**
  2. Open the Java keystore:
    - Path:  
`$JAVA_HOME/lib/security/cacerts`
  3. Enter the keystore password  
(*Note: the default password `cacerts` is often changed in secure environments*)
  4. Import the LDAP / Active Directory certificate:
    - Go to **Tools** → **Import Trusted Certificate**
    - Select your exported certificate file (e.g., `.cert`)
  5. Assign an alias (e.g., `ldap-cert`)
  6. Save the keystore
  7. Restart Tomcat
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## Important Notes

- The default Java keystore password (`cacerts`) is **often changed** in secure environments  
→ Please confirm the correct password with your system administrator
  - If the certificate is not trusted:
    - LDAPS connections will fail
    - Authentication will not work
  - Ensure the correct Java runtime is used (the one running Tomcat)
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## Recommendation

- Always use **LDAPS (port 636)** instead of plain LDAP for secure communication
  - Use a **dedicated service account** rather than a personal user account
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