

Authentication server deployment on Windows and Linux

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The authentication server is part of Teamwork Cloud (TWCloud). You can deploy the authentication server onto your computer using the following instructions for Windows and Linux users.

Authentication server deployment on Windows

To deploy an authentication server using the zip file

1. In the command prompt dialog, verify "**java -version**" is the active Java version, which is Oracle JDK 1.8.0_152.
2. Go to the directory where TWCloud is unzipped and select the *AuthServer* directory.
3. Update the file `<TWCloud directory>/AuthServer/config/authserver.properties` as follows:
 - a. **server.public.host** - Enter the IP address of the authentication server in place of **\$(server.ip)**. If TWCloud is installed behind a proxy or firewall with NAT, use a public IP address. If you are accessing the server via an FQDN, use it instead of the IP address.
 - b. **twc.server.host** - Enter the IP address of the server where TWCloud is installed in place of **\$(twc.server.ip)**.
 - c. **twc.server.port** - Specify the port of TWAdmin (the default is **8111**).
 - d. **twc.server.protocol** - Specify the protocol of TWAdmin (the default is **https**).
 - e. **authentication.redirect.uri.whitelist** - Update the whitelist of redirect URI. Change the TWAdmin console's redirect URI (the initial is [https://\\$\(twc.server.ip\):8111/twcloud_admin/](https://$(twc.server.ip):8111/twcloud_admin/)) by setting the TWCloud's IP address or FQDN (if you are accessing the server by FQDN) instead of **\$(twc.server.ip)** (and change the port/protocol if they were changed).
 - f. **cassandra.contactPoints** and **cassandra.port** - Update the Cassandra host(s) if the database is installed on a different machine(s) and the Cassandra port if the custom port is configured in the database for CQL clients listening.
4. Save the **authserver.properties** file.
5. Make sure that the log configuration points to the file location that is writable. You can find the log config in the file `<TWCloud directory>/AuthServer/config/logback-spring.xml`.
6. Open the command prompt to `<TWCloud directory>/AuthServer` and run the file **registerWindowsService.bat**.
7. Open the Windows Services panel or Task Manager's **Services** tab.
8. Locate **Authentication Server** in the Windows Services panel (or **AuthServer** in Task Manager) and start it.

To deploy an authentication server using the installer

1. Make sure that the log configuration points to the file location that is writable. You can find the log config in the file `<TWCloud directory>/AuthServer/config/logback-spring.xml`.
2. By default, the Authentication Server will be started on the IP address specified during the installation process. If you want to access it through the public IP or FQDN, open the file `<TWCloud directory>/AuthServer/config/authserver.properties` and enter the public IP address or FQDN into the property **server.public.host**.
3. Open the Windows Services panel or Task Manager's **Services** tab.
4. Locate **Authentication Server** in the Windows Services panel (or **AuthServer** in Task Manager) and start it.

To undeploy an authentication server

1. Open the Windows Services panel or Task Manager's **Services** tab.
2. Locate **Authentication Server** in the Windows Services panel (or **AuthServer** in Task Manager) service and stop it.
3. Open the command prompt to `<TWCloud directory>/AuthServer` and run the file **unregisterWindowsService.bat**.

Authentication server deployment on Linux

To deploy an authentication server using the zip file

1. Go to the directory, where TWCloud is unzipped and select the *AuthServer* directory.
2. Update the file `<TWCloud directory>/AuthServer/config/authserver.properties` as follows:
 - a. **server.public.host** - Enter the IP address of the authentication server in place of **\$(server.ip)**. If TWCloud is installed behind a proxy or firewall with NAT, use a public IP address. If you are accessing the server via FQDN, use it instead of the IP address.
 - b. **twc.server.host** - Enter the IP address of the server where TWCloud is installed in place of **\$(twc.server.ip)**.
 - c. **twc.server.port** - Specify the port of TWAdmin (the default is **8111**).
 - d. **twc.server.protocol** - Specify the protocol of TWAdmin (the default is **https**).

- e. **authentication.redirect.uri.whitelist** - Update the whitelist of redirect URI. Change the TWAdmin console's redirect URI (the initial is https://{{twc.server.ip}}:8111/twcloud_admin/) by setting the TWCloud's IP address or FQDN (if you are accessing the server by FQDN) instead of **twc.server.ip** (and change the port/protocol if they were changed).
 - f. **cassandra.contactPoints** and **cassandra.port** - Update the Cassandra host(s) if the database is installed on a different machine(s) and the Cassandra port if the custom port is configured in the database for CQL clients listening.
3. Save the file **authserver.properties**.
 4. Make sure that the log configuration points to the file location that is writable. You can find the log config in the file *<TWCloud directory>/AuthServer/config/logback-spring.xml*.
 5. Copy the file *<TWCloud directory>/AuthServer/script/authserver* to the following directory */etc/init.d*: **sudo cp <TWCloud directory>/AuthServer/script/authserver /etc/init.d**.
 6. To make the service start/stop with system startup/shutdown, use the following command: **sudo chkconfig --add authserver**.
 7. Start the authentication server: **sudo service authserver start**.

To deploy an authentication server using the installer

1. Make sure that the log configuration points to the file location that is writable. You can find the log config in the file *<TWCloud directory>/AuthServer/config/logback-spring.xml*.
2. By default, the Authentication Server will be started on the IP address specified during the installation process. If you want to access it through the public IP or FQDN, open the file *<TWCloud directory>/AuthServer/config/authserver.properties* and enter the public IP address or FQDN into the property *server.public.host*.
3. Start the authentication server: **sudo service authserver start**.

To undeploy an authentication server

1. Type **sudo service authserver stop** to stop the authentication server.
2. Remove the service from chkconfig management with this command: **sudo chkconfig --del authserver**.
3. Remove the link by typing: **sudo rm /etc/init.d/authserver**.
4. Remove the directory *<TWCloud directory>/AuthServer*.