

11.2.8.a.7.1 User Service Setup for Multiple Instances of ED



Set up ItemBank service for multiple instances of ExamDeveloper



Set up Project service for multiple instances of ExamDeveloper



ExamDeveloper setup home page



The following is applicable only for ExamDeveloper version 7.1610.0.0 and above.



It is important to ensure that all the values in the config files such as service name, URLs, username, and password are case-sensitive. ExamDeveloper may not run as expected if care is not taken to ensure that case sensitivity is maintained.

1. Create a folder where you want to install the new instance of User service, such as `C:\EDUS\ExamDeveloper_New\` (henceforth known as `<EDUSinstallDir_New>`) and copy all the contents of `<SVNFolder>\User\` (or `<SVNFolder>\UserService\`) to this folder.
2. Open the various configuration files for the new instance of the User service from `C:\EDUS\ExamDeveloper_New\configs` (`<EDUSinstallDir_New>\configs`) - `appSettings.config`, `connectionStrings.config`, `massTransit.config`, and `log4net.config` - with Notepad or a suitable text file editor.
3. In the `appSettings.config`, enter unique name and unique display name for the new instance of User service, which is to be created and run on the application server.

```
<add key="serviceDescription" value="ExamDeveloper User Service Description_New"/>
<add key="serviceDisplayName" value="UniqueUserServiceDisplayName_New"/>
<add key="serviceName" value="UniqueUserServiceName_New"/>
```

where,

`UniqueUserServiceName_New` and `UniqueUserServiceDisplayName_New` are the unique name and display name given to the new instance of the User service. These names needs to be unique per install and should not contain any space.

4. In the `appSettings.config`, ensure that the values of the keys "basicAuthUserName" and "basicAuthPassword" match the values in ExamDeveloper `httpClients.config` of the keys "userName" and "password" respectively for the line with httpClientConfig name "User" as in [step 11 of Configure ExamDeveloper](#).

```
<add key="basicAuthUserName" value="examDeveloper_New"/>
<add key="basicAuthPassword" value="Dummy_Password_New"/>
```

5. If a line with the key "useSsl" exists, set the value to "true" as follows:

```
<add key="useSsl" value="true"/>
```

6. If a line with the key "relativeUri" exists, set the value to "UniqueUserServiceName_New" as follows:

```
<add key="relativeUri" value="UniqueUserServiceName_New"/>
```

where `UniqueUserServiceName_New` is the name of the new instance of the User service.

7. In the `connectionStrings.config`, update connection string value to match the value from the EDRS `connectionStrings.config` file as in [step 2.a of Install Additional Instance of EDRS](#) for the new instance of EDRS.

```
<connectionStrings>
  <add name="examDeveloper" connectionString="Data Source=WIN-VSGF1NBSVPB;Initial Catalog=ExamDeveloper_New;Persist
Security Info=True;User ID=ExamDev_New;Password=P@sswOrd_New" />
</connectionStrings>
```

 **Step 8** is applicable only for **ExamDeveloper version 7.1611** and above.

- Update the values in the <massTransit> section of the *massTransit.config* file to match the corresponding values from *massTransit.config* of the new instance of EDRS.

```
<host>
  <rabbit hostAddress="rabbitmq://localhost/ExamDeveloper_New" username="ExamDeveloper_New" password="Password_New" />
</host>
```

The name of the new Virtual Host *ExamDeveloper_New* for the new instance of the ED application, as created in the **Create and configure RabbitMQ Virtual Host** of the **RabbitMQ Setup and Configuration** page, should be appended to the *massTransit/host/rabbit@hostAddress* attribute, which is *rabbitmq://localhost/ExamDeveloper_New* in our example. The new RabbitMQ user with username *ExamDeveloper_New* and password *Password_New* having access to the new Virtual Host *ExamDeveloper_New* (as mentioned in **step 2.c.i** of **Install Additional Instance of EDRS** section of the **Configuring EDRS for Multiple Instances of ExamDeveloper**) is used here.

 If RabbitMQ is installed on a separate server, then you must substitute "localhost" with the hostname of that server. If *RabbitMQ-URL* is the server hostname where RabbitMQ is installed, then the line becomes:

```
<rabbit hostAddress="rabbitmq://RabbitMQ-URL/ExamDeveloper_New" username="ExamDeveloper_New" password="Password_New" />
```

 It is extremely important that the same RabbitMQ Virtual Host name should not be shared between different instances of ExamDeveloper, as this can result in issues such as data loss and security breach.

It is important to ensure that the RabbitMQ Virtual Host name, username, and password are case-sensitive. You will encounter an error while trying to log into ExamDeveloper if care is not taken to ensure that both are specified exactly as they are in the new RabbitMQ Virtual Host and user setup for this instance of the ExamDeveloper application.

- Update the values in the <log4net> section of the *log4net.config* file as shown below to indicate the path where the log file for the new instance of User service is to be located.

```
<log4net>
  <appender name="RollingFile" type="log4net.Appender.RollingFileAppender">
    <file value="C:\ExamDeveloperData\Logs\UserService_New\User.log" />
```

Here, the log file *User.log* will save to the User service folder by default (*C:\EDUS\ExamDeveloper_New* in our example). You can specify a different path to save it by modifying the value to something like *"C:\ExamDeveloperData\Logs\UserService_New\User.log"* as shown above.

Install the new instance of User service

- Open an Administrator command prompt and run the following command:

```
netsh http add urlacl url=https://+:443/UniqueUserServiceName_New user=Everyone
```

where *UniqueUserServiceName_New* is the name of the new instance of the User service.

 If you get an error stating "Url reservation add failed" on running the above command, please ignore it as it means that this has already been taken care of.

- Open an Administrator command prompt (click the **Start** button, type "*command*" in the search box, right click **Command Prompt** in the search results that appear, and click **Run as administrator** from the context menu) and navigate to *<EDUSinstallDir_New>*.
- Run the following command to install the new instance of User service:

User.exe install --sudo --localservice

Start the new instance of User service

1. Once the service is installed successfully, to start the new instance of User service, open the Administrator command prompt.
2. Navigate to `<EDUSinstallDir_New>` and run the following command:

User.exe start



The installed service runs in the default Local Service account. If the service does not start, inspect the Windows application logs to understand the reason.

✓ [If you need to stop or uninstall the User service, click here to learn how...](#)

If you need to stop or uninstall the User service, you need to follow the following steps.

Stop User service

1. Open the Administrator command prompt and navigate to `<EDUSinstallDir_New>`.
2. To stop installed service, run the following command:

User.exe stop

Uninstall User service

1. Open the Administrator command prompt and navigate to `<EDUSinstallDir_New>`.
2. First stop the service by running the following command:

User.exe stop

3. To uninstall the service, run command:

User.exe uninstall --localservice



Please visit [User Service Configuration Settings](#) to learn more about the various settings mentioned above.

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