



## Reading : User Management with DB2

**Estimated time needed:** 10 minutes

In this reading, you will learn how to manage Db2 user accounts and roles.

### Objectives

After completing this reading, you will have be able to manage Db2 user accounts and roles.

### Software Used

In this reading, you will see usage of [IBM Db2 Database](#) Standard plan. Db2 is a Relational Database Management System (RDBMS) from IBM, designed to store, analyze and retrieve the data efficiently.

# IBM Db2

### Manage Db2 user accounts & roles

User management is the process of controlling which users are allowed to connect to the Db2 server and what permissions they have on each database. In Db2, users are created and assigned a specific built-in user role with a predefined set of privileges on the system. The built-in user roles are simple to use and easy to manage.

In Db2 on Cloud Standard plan, a user is created by the administrator and typically assigned one of the following built-in user roles: Administrator or User. These built-in user roles provide different levels of access commonly needed in a database system. The following general summary describes what each of the built-in user roles can do:

#### Administrator

- Has access to all of the features in the console, and has the privileges to manage other users.

#### User

- Has access to many of the features in the console, and has the privileges to manage their own user profile. Users with this role also have full access to their own tables and can use their tables with all permissions, including giving other users permission to access and use their tables.

The screenshot shows the 'User management' section of the IBM Db2 on Cloud interface. On the left, there's a vertical sidebar with icons for Compute & storage, Backups, Workloads, Authorization, User management (which is selected and highlighted in blue), Connections, and Access restriction. Below these are icons for SQL, a database, monitoring, logs, and help.

The main area has a header 'Users' with a search bar and refresh button. A table lists three users:

	User ID	User name	IBMid	Email	Admin	Locked	Action
<input type="checkbox"/>	50gjyu38x	James.					
<input type="checkbox"/>	550006ynkp	sandip					
<input type="checkbox"/>	61929da7	61929da7		email@ibm.com			

Under **Administration > User management** of Db2 on Cloud Standard plan, the **Add** option allows you to create/add new user with either of the built-in user roles. You can see some created users shown in the above image, for example **James** with user privilege and **sandip** with administrator privilege.

The built-in set of user roles is simple to use and easy to manage, but if it does not provide you with the desired set of fine-grained permissions, you can also create your own user-defined user roles to satisfy your special requirements. A role is a database object that groups together one or more privileges and can be assigned to users. A user that is assigned a role receives all of the privileges of that role. A user can have multiple roles. A role hierarchy is also supported. This allows one of the roles to inherit all of the privileges and authorities of the other role or roles that they have been granted. A user-defined user role simplifies the administration and management of privileges by allowing the administrator to group authorities and privileges into a single role and then grant this role to the users that need those authorities and privileges to perform their jobs.

The screenshot shows the 'Authorization' tab in the IBM Db2 on Cloud interface. On the left, there's a vertical sidebar with icons for Compute & storage, Backups, Workloads, SQL, and other cloud services. The main area has tabs for Compute & storage, Backups, Workloads, Authorization (which is selected), User management, Connections, and Access restriction. Below these tabs is a search bar with placeholder text 'Input new role' and buttons for 'Add role' (+), 'Remove role', 'Grant multiples', and 'Revoke multiples'. The main content area displays a table of roles:

Name	Type
BLU_CONNECT_NORMAL	ROLE
BLU_CONNECT_TRUSTED	ROLE
DASHDB_ENTERPRISE_ADMIN	ROLE
DASHDB_ENTERPRISE_USER	ROLE
DB2INST1	USER
DEVELOPER	ROLE
OPERATOR	ROLE
PUBLIC	GROUP
SYSDEBUG	ROLE
SYSDEBUGPRIVATE	ROLE
SYSTS_ADMIN	ROLE
SYSTS_MGR	ROLE
SYSTS_USR	ROLE
TESTER	ROLE
UCMON	USER

You can see some created user defined roles shown in the above image, for example **DEVELOPER**, **TESTER**, **OPERATOR**, etc.

**Congratulations! You have completed this reading, and you are ready for the next topic.**

## Author(s)

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