

云数据库账号权限说明

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1. 描述

本文介绍为云数据库实例创建普通账号时，需要为其授予账号的权限项说明。授权后才能成功连接数据库。

提示：高级权限账号可以直接连接云数据库实例。



2. MySQL数据库权限项

账号类型	授权	权限项				
高级权限账号	-	SELECT	INSERT	UPDATE	DELETE	CREATE
		DROP	RELOAD	PROCESS	REFERENCES	INDEX
		ALTER	CREATE TEMPORARY TABLES	LOCK TABLES	EXECUTE	REPLICATION SLAVE
		REPLICATION CLIENT	CREATE VIEW	SHOW VIEW	CREATE ROUTINE	ALTER ROUTINE
		CREATE USER	EVENT	TRIGGER		
普通账号	只读	SELECT	LOCK TABLES	SHOW VIEW	PROCESS	REPLICATION SLAVE
		REPLICATION CLIENT				
	读写	SELECT	INSERT	UPDATE	DELETE	CREATE
		DROP	REFERENCES	INDEX	ALTER	CREATE TEMPORARY TABLES
		LOCK TABLES	EXECUTE	CREATE VIEW	SHOW VIEW	CREATE ROUTINE
		ALTER ROUTINE	EVENT	TRIGGER	PROCESS	REPLICATION SLAVE
		REPLICATION CLIENT				
	仅DDL	CREATE	DROP	INDEX	ALTER	CREATE TEMPORARY TABLES
		LOCK TABLES	CREATE VIEW	SHOW VIEW	CREATE ROUTINE	ALTER ROUTINE
		PROCESS	REPLICATION SLAVE	REPLICATION CLIENT		
	仅DML	SELECT	INSERT	UPDATE	DELETE	CREATE TEMPORARY TABLES
		LOCK TABLES	EXECUTE	SHOW VIEW	EVENT	TRIGGER



3. SQL Server数据库权限项

账号类型	授权对象	权限类型	角色	权限
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• 高权限账号 • 普通账号	用户数据库	所有者	• Server级别角色 • public • processadmin • setupadmin • Database级别角色 • public • db_owner	Server级别权限 • CONNECT SQL • ALTER ANY LOGIN • ALTER ANY LINKED SERVER • ALTER ANY CONNECTION • ALTER TRACE • VIEW ANY DATABASE • VIEW SERVER STATE • ALTER SERVER STATE Database级别权限 • CREATE TABLE • CREATE VIEW • CREATE PROCEDURE • CREATE FUNCTION • CREATE RULE • CREATE DEFAULT • CREATE TYPE • CREATE ASSEMBLY • CREATE XML SCHEMA COLLECTION • CREATE SCHEMA • CREATE SYNONYM • CREATE AGGREGATE • CREATE ROLE • CREATE MESSAGE TYPE • CREATE SERVICE • CREATE CONTRACT • CREATE REMOTE SERVICE BINDING • CREATE ROUTE • CREATE QUEUE • CREATE SYMMETRIC KEY • CREATE ASYMMETRIC KEY • CREATE FULLTEXT CATALOG • CREATE CERTIFICATE • CREATE DATABASE DDL EVENT NOTIFICATION • CONNECT • CONNECT REPLICATION • CHECKPOINT • SUBSCRIBE QUERY NOTIFICATIONS • AUTHENTICATE • SHOWPLAN • ALTER ANY USER • ALTER ANY ROLE • ALTER ANY APPLICATION ROLE • ALTER ANY COLUMN ENCRYPTION KEY • ALTER ANY COLUMN MASTER KEY • ALTER ANY SCHEMA • ALTER ANY ASSEMBLY • ALTER ANY DATABASE SCOPED CONFIGURATION • ALTER ANY DATASPACE • ALTER ANY EXTERNAL DATA SOURCE • ALTER ANY EXTERNAL FILE FORMAT • ALTER ANY MESSAGE TYPE • ALTER ANY CONTRACT • ALTER ANY SERVICE • ALTER ANY REMOTE SERVICE BINDING • ALTER ANY ROUTE • ALTER ANY FULLTEXT CATALOG • ALTER ANY SYMMETRIC KEY • ALTER ANY ASYMMETRIC KEY • ALTER ANY CERTIFICATE • ALTER ANY SECURITY POLICY • SELECT • INSERT • UPDATE • DELETE • REFERENCES • EXECUTE • ALTER ANY DATABASE DDL TRIGGER • ALTER ANY DATABASE EVENT NOTIFICATION • ALTER ANY DATABASE AUDIT • ALTER ANY DATABASE EVENT SESSION • KILL DATABASE CONNECTION • VIEW ANY COLUMN ENCRYPTION KEY DEFINITION • VIEW ANY COLUMN MASTER KEY DEFINITION • VIEW DATABASE STATE • VIEW DEFINITION • TAKE OWNERSHIP • ALTER • ALTER ANY MASK • UNMASK • EXECUTE ANY EXTERNAL SCRIPT • CONTROL
		只读	• Server级别角色 • public • processadmin • setupadmin • Database级别角色 • public • db_datareader	Server级别权限 • CONNECT SQL • ALTER ANY LOGIN • ALTER ANY LINKED SERVER • ALTER ANY CONNECTION • ALTER TRACE • VIEW ANY DATABASE • VIEW SERVER STATE • ALTER SERVER STATE Database级别权限 • CONNECT • SHOWPLAN • SELECT • KILL DATABASE CONNECTION • VIEW ANY COLUMN ENCRYPTION KEY DEFINITION • VIEW ANY COLUMN MASTER KEY DEFINITION • VIEW DATABASE STATE

		读写（DML）	- Server级别角色 - public - processadmin - setupadmin - Database级别角色 - public - db_datareader - db_datawriter	Server级别权限 - CONNECT SQL - ALTER ANY LOGIN - ALTER ANY LINKED SERVER - ALTER ANY CONNECTION - ALTER TRACE - VIEW ANY DATABASE - VIEW SERVER STATE - ALTER SERVER STATE Database级别权限 - CONNECT - SHOWPLAN - SELECT - INSERT - UPDATE - DELETE - KILL DATABASE CONNECTION - VIEW ANY COLUMN ENCRYPTION KEY DEFINITION - VIEW ANY COLUMN MASTER KEY DEFINITION - VIEW DATABASE STATE
超级权限账号	所有数据库	所有权限	- Server级别角色: sysadmin - Database级别角色: db_owner	Server级别权限 - CONNECT SQL - SHUTDOWN - CREATE ENDPOINT - CREATE ANY DATABASE - CREATE AVAILABILITY GROUP - ALTER ANY LOGIN - ALTER ANY CREDENTIAL - ALTER ANY ENDPOINT - ALTER ANY LINKED SERVER - ALTER ANY CONNECTION - ALTER ANY DATABASE - ALTER RESOURCES - ALTER SETTINGS - ALTER TRACE - ALTER ANY AVAILABILITY GROUP - ADMINISTER BULK OPERATIONS - AUTHENTICATE SERVER - EXTERNAL ACCESS ASSEMBLY - VIEW ANY DATABASE - VIEW ANY DEFINITION - VIEW SERVER STATE - CREATE DDL EVENT NOTIFICATION - CREATE TRACE EVENT NOTIFICATION - ALTER ANY EVENT NOTIFICATION - ALTER SERVER STATE - UNSAFE ASSEMBLY - ALTER ANY SERVER AUDIT - CREATE SERVER ROLE - ALTER ANY SERVER ROLE - ALTER ANY EVENT SESSION - CONNECT ANY DATABASE - IMPERSONATE ANY LOGIN - SELECT ALL USER SECURABLES - CONTROL SERVER Database级别权限

			• CREATE TABLE • CREATE VIEW • CREATE PROCEDURE • CREATE FUNCTION • CREATE RULE • CREATE DEFAULT • BACKUP DATABASE • BACKUP LOG • CREATE DATABASE • CREATE TYPE • CREATE ASSEMBLY • CREATE XML SCHEMA COLLECTION • CREATE SCHEMA • CREATE SYNONYM • CREATE AGGREGATE • CREATE ROLE • CREATE MESSAGE TYPE • CREATE SERVICE • CREATE CONTRACT • CREATE REMOTE SERVICE BINDING • CREATE ROUTE • CREATE QUEUE • CREATE SYMMETRIC KEY • CREATE ASYMMETRIC KEY • CREATE FULLTEXT CATALOG • CREATE CERTIFICATE • CREATE DATABASE DDL EVENT NOTIFICATION • CONNECT • CONNECT REPLICATION • CHECKPOINT • SUBSCRIBE QUERY NOTIFICATIONS • AUTHENTICATE • SHOWPLAN • ALTER ANY USER • ALTER ANY ROLE • ALTER ANY APPLICATION ROLE • ALTER ANY COLUMN ENCRYPTION KEY • ALTER ANY COLUMN MASTER KEY • ALTER ANY SCHEMA • ALTER ANY ASSEMBLY • ALTER ANY DATABASE SCOPED CONFIGURATION • ALTER ANY DATASPACE • ALTER ANY EXTERNAL DATA SOURCE • ALTER ANY EXTERNAL FILE FORMAT • ALTER ANY MESSAGE TYPE • ALTER ANY CONTRACT • ALTER ANY SERVICE • ALTER ANY REMOTE SERVICE BINDING • ALTER ANY ROUTE • ALTER ANY FULLTEXT CATALOG • ALTER ANY SYMMETRIC KEY • ALTER ANY ASYMMETRIC KEY • ALTER ANY CERTIFICATE • ALTER ANY SECURITY POLICY • SELECT • INSERT • UPDATE • DELETE • REFERENCES • EXECUTE • ALTER ANY DATABASE DDL TRIGGER • ALTER ANY DATABASE EVENT NOTIFICATION • ALTER ANY DATABASE AUDIT • ALTER ANY DATABASE EVENT SESSION • KILL DATABASE CONNECTION • VIEW ANY COLUMN ENCRYPTION KEY DEFINITION • VIEW ANY COLUMN MASTER KEY DEFINITION • VIEW DATABASE STATE • VIEW DEFINITION • TAKE OWNERSHIP • ALTER • ALTER ANY MASK • UNMASK • EXECUTE ANY EXTERNAL SCRIPT • CONTROL
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