Security

Nov 30, 2009

Chapter 21

Security

- Secrecy
- Integrity
- Availability
Security

• Security Policy

• Security mechanism
  – access rights
  – privileges
phpMyAdmin

User 'chadd'@'%' : Edit Privileges

Global privileges (Check All / Uncheck All)

Note: MySQL privilege names are expressed in English

Data
- SELECT
- INSERT
- UPDATE
- DELETE
- FILE

Structure
- CREATE
- ALTER
- INDEX
- DROP
- CREATE TEMPORARY TABLES
- CREATE VIEW
- SHOW VIEW
- CREATE ROUTINE
- ALTER ROUTINE
- EXECUTE

Administration
- GRANT
- SUPER
- PROCESS
- RELOAD
- SHUTDOWN
- SHOW DATABASES
- LOCK TABLES
- REFERENCES
- REPLICATION CLIENT
- REPLICATION SLAVE
- CREATE USER

Also: Resource Limits
12.5.1.3. **GRANT** Syntax

```sql
GRANT

    priv_type [(column list)]
    [, priv_type [(column list)]] ...

ON [object_type] priv_level

TO user [IDENTIFIED BY [PASSWORD] 'password']
    [, user [IDENTIFIED BY [PASSWORD] 'password']] ...
[REQUIRE {NONE | ssl_option [[AND] ssl_option] ...}]
[WITH with_option [with_option] ...]

object_type:
    TABLE
    | FUNCTION
    | PROCEDURE

priv_level:
    *
    | *
    | db name.*
    | db name.tbl_name
    | tbl_name
    | db_name.routine_name
```

Also: Resource Limits

12.5.1.5. REVOKE Syntax

REVOKE

priv_type [(column list)]
[ , priv_type [(column list)]] ...
ON [object_type] priv_level
FROM user [, , user] ...

REVOKE ALL PRIVILEGES, GRANT OPTION
FROM user [, , user] ...
Other types of security

- Encryption
- SSL certificate
- Digital Signature