

```
CREATE USER 'member1'@'localhost' IDENTIFIED BY 'password';
GRANT ALL ON sakila.* TO 'member1'@'localhost';
```

2. Use the `sp_set_firewall_group_mode()` stored procedure to register the group profile with the firewall and place the profile in `RECORDING` (training) mode:

```
CALL mysql.sp_set_firewall_group_mode('fwgrp', 'RECORDING');
```

3. Use the `sp_firewall_group_enlist()` stored procedure to add an initial member account for use in training the group profile allowlist:

```
CALL mysql.sp_firewall_group_enlist('fwgrp', 'member1@localhost');
```

4. To train the group profile using the initial member account, connect to the server as `member1` from the server host so that the firewall sees a session account of `member1@localhost`. Then execute some statements to be considered legitimate for the profile. For example:

```
SELECT title, release_year FROM film WHERE film_id = 1;
UPDATE actor SET last_update = NOW() WHERE actor_id = 1;
SELECT store_id, COUNT(*) FROM inventory GROUP BY store_id;
```

The firewall receives the statements from the `member1@localhost` account. Because that account is a member of the `fwgrp` profile, which is in `RECORDING` mode, the firewall interprets the statements as applicable to `fwgrp` and records the normalized digest form of the statements as rules in the `fwgrp` allowlist. Those rules then apply to all accounts that are members of `fwgrp`.



Note

Until the `fwgrp` group profile receives statements in `RECORDING` mode, its allowlist is empty, which is equivalent to “deny all.” No statement can match an empty allowlist, which has these implications:

- The group profile cannot be switched to `PROTECTING` mode. It would reject every statement, effectively prohibiting the accounts that are group members from executing any statement.
- The group profile can be switched to `DETECTING` mode. In this case, the profile accepts every statement but logs it as suspicious.

5. At this point, the group profile information is cached, including its name, membership, and allowlist. To see this information, query the Performance Schema firewall tables:

```
mysql> SELECT MODE FROM performance_schema.firewall_groups
      WHERE NAME = 'fwgrp';
+-----+
| MODE |
+-----+
| RECORDING |
+-----+
mysql> SELECT * FROM performance_schema.firewall_membership
      WHERE GROUP_ID = 'fwgrp' ORDER BY MEMBER_ID;
+-----+-----+
| GROUP_ID | MEMBER_ID |
+-----+-----+
| fwgrp | member1@localhost |
+-----+-----+
mysql> SELECT RULE FROM performance_schema.firewall_group_allowlist
      WHERE NAME = 'fwgrp';
+-----+
| RULE |
+-----+
```