SSO DB

About PREFIX:

- mbcsso_dev: for development environment
- mbcsso_stg: for stage environment
- mbcsso_prod: for production environment

1. Config Table Schema

- name: {PREFIX}_Config

Name	Type	Content	Default
system_id	String	Partition key	
tenant_id	String	Sort Key	
client_id	String		
client_secret	String	KMS???	
admin	String	Admin's name	
password	String	KMS???	
keycloak_url	String		
keycloak_realm	String	KMS???	

2. Write User Table Schema

2.1. Base Table

- name: {PREFIX}_{SystemId}_{TenantId}_user_commands
- TTL: set on sk config#version with ttl field

Name	Type	Content	Default
id	String	Partition Key. - user#username: user partition - group#name: group partition	
sk	String	Sort Key. - config: user and group (latest version) info - config#version: user and group (older version) info - member#uid: group member info	

Name	Type	Content	Default
command	String	Command: - `add`: Add action - `update`: Update action - `delete`: Delete action	
sso_type	String	SSO type: - `keycloak`	`keycloak`
email	String	Unique user' Email. pk: `user#username`	`undefined`
password	String	Encrypted user's password. pk: `user#username`	`undefined`
first_name	String	User's first name. pk: `user#username`	`undefined`
last_name	String	User's last name. pk: `user#username`	`undefined`
is_active	Bool	Active status. `true`: active, `undefined`: deactive. sk: `config`	`undefined`
version	Number	Record version. sk: `config#version` sk: `config`	`1`
updated_at	Timestamp		`CURRENT_TIMESTAMP`
attributes	Object	Additional record's attributes. sk: `config#version` sk: `config`	`undefined`
ttl	Timestamp (s)	DynamoDB TTL. sk: `config#version`	`undefined`

3. Read User Table Schema

3.1. Base Table

- name: `{PREFIX}_{SystemId}_{TenantId}_users`

Name	Type	Content	Default
id	String	Partition Key. - `user#username`: user partition - `group#name`: group partition	

Name	Type	Content	Default
`sk`	String	Sort Key. - `config`: user info and group info, - `member#uid`: group member	
`email`	String	Unique user' Email. pk: `user#username`	`undefined`
`first_name`	String	User's first name. pk: `user#username`	`undefined`
`last_name`	String	User's last name. pk: `user#username`	`undefined`
`member_id`	String	User' id . sk: `member#uid`	`undefined`
`is_active`	Bool	Active status. `true`: active, `undefined`: deactive. sk: `config`	`undefined`
`version`	Number	Record version. sk: `config`	`1`
`config_updated_at`	Timestamp	User or Group updated timestamp. sk: `config`	`CURRENT_TIMESTAMP`
`updated_at`	Timestamp	Record's updated timestamp	`undefined`
`attributes`	Object	Additional record's attributes. sk: `config`	`undefined`

3.2. GSI User-Group Table

- name: `UserGroupGSI`

Field	Type
`member_id`	Partition key
`id`	Sort Key
`sk`	
`updated_at`	added timestamp

- Uses Case
  - Fetch groups by user' id

3.3. GSI User-Email Table

- name: `UserEmailGSI`

Field	Type
email	Partition Key
sk	Sort Key
id	
first_name	
last_name	
is_active	
version	
config_updated_at	
attributes	

- Uses Case
    - Fetch user by email

3.4. GSI User-UpdatedAt Table

- name: UserUpdatedAtGSI

Field	Type
id	Partition Key
config_updated_at	Sort key
sk	
email	
first_name	
last_name	
is_active	
version	
attributes	

- Uses Case
    - Fetch all users sorted by updated timestamp
    - Fetch all groups sorted by updated timestamp

3.5 GSI User-LastName Table

- name: UserLastNameGSI

Field	Type

Field	Type
last_name	Partition Key
config_updated_at	Sort key
id	
sk	
email	
first_name	
is_active	
version	
attributes	

- Uses Case
  - Search users by last name

3.6 GSI User-FirstName Table

- name: UserFirstNameGSI

Field	Type
first_name	Partition Key
config_updated_at	Sort key
id	
sk	
email	
last_name	
is_active	
version	
attributes	

- Uses Case
  - Search users by first name