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 sk: config#version sk: config	
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
description	String	Description's group. pk: group#name sk:config sk:config#version	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

2.2. GSI User-Email Table

- name: UserEmailGSI

Field	Type
email	Partition Key

Field	Type
sk	Sort Key
id	
first_name	
last_name	
is_active	
version	
updated_at	
attributes	

- Uses Case
  - Check email already exists

2.3. GSI User-Group Table

- name: `UserGroupGSI`

Field	Type
sk	Partition key
id	Sort Key

- Uses Case
  - Fetch groups by user' id

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	
sk	String	Sort Key. - `config`: user info and group info, - `member#uid`: group member	
email	String	Unique user' Email. pk: `user#username`	`undefined`

Name	Type	Content	Default
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	

Field	Type
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
last_name	Partition Key
config_updated_at	Sort key
id	

Field	Type
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