

Space Mapping

This mechanism allows us to configure spaces that Advanced Identity Management will maintain.

Configuration

We define each space giving it a name (which will be displayed in Element), a unique ID (which allows Advanced Identity Management to track the Space even if it gets renamed), and a list of groups whose users will become the members of the Space. Users needs to be a member of *any* configured group, not all of them.

You can pick any ID you want, but if you change it later Advanced Identity Management will create a brand new space and abandon the old ones, likely confusing the users.

In order to limit space membership to a specific Group, we include its Group ID.

Each group may optionally include a `powerLevel` setting, allowing specific groups to have elevated permissions in the space.

A special group ID of `"` (an empty string) indicates that all users from the server, regardless of their group membership, should become the members of the Space.

In addition to regular groups, you may also make a space federated by specifying `federatedGroups` and a remote Advanced Identity Management server. See [Federation](#) for more details.

An optional list of subspaces may also be configured, each using the same configuration format and behaviour (recursively).

If a space has subspaces configured, its members list will be composed of the members of the space itself **any any of its subspaces, recursively** -- so a subspace's member list is always a subset of its parent space's member list. This may change in the future, so it's advised not to rely on this when configuring your spaces.

```
spaces:
  id: root
  name: 'Company'
  groups:
    - externalId: 'element-users'
```

With `powerLevel` option allows us to give users extra permissions. This is equivalent to the `group_power_level` setting[^note].

```
spaces:
  id: root
```

```
name: 'Company'
groups:
  # regular users
  - externalId: 'element-users'
  # moderators
  - externalId: 'element-moderators'
  powerLevel: 50
```

In case of Power Level conflicts, the highest power level will be used. With the following configuration:

```
spaces:
  id: root
  name: 'Company'
  groups:
    - externalId: 'moderators'
      powerLevel: 50
    - externalId: 'admins'
      powerLevel: 100
```

A user who's a member of both `moderators` and `admins` will end up with Power Level of 100.

Subspaces can be configured analogically:

```
spaces:
  id: shared
  name: "Element Corp"
  groups:
    - externalId: 'matrix-mods'
      powerLevel: 50
    - externalId: ""
  subspaces:
    - id: london
      name: "London Office"
      groups:
        - externalId: 'london-matrix-mods'
          powerLevel: 50
        - externalId: 'london-employees'
```

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