Admin Actions

Administrative actions create, modify, or delete XINA data structures, perform user management, or other system functions.

Schema Actions

SCHEMA

Returns the complete environment schema as a JSON object.

Property	Value	Required	Default
action	`"schema"`	yes	

Example

```
{
  "action" : "schema"
}
```

The server will return a JSON object:

```
{
  "groups" : [ ... ]
}
```

CREATE

The CREATE action is used to create new groups, databases, teams, and users.

CREATE GROUP

Creates a new group.

Property	Value	Required	Default
action	`"create"`	yes	
create	`"group"`	yes	
group	group definition	yes	

Property	Value	Required	Default
parent	group specifier	no	
teams	group teams association (see below)	no	

If a `parent` group is provided, the created group will be a child of the parent; otherwise the group will be a root level group.

The `teams` property is used to associate the group with one or more teams on creation. This may either be a JSON array of team specifier(s), and the group will be added to those teams with the default group privileges as specified by each team, or may be a JSON object, with each key interpretted as a team specifier, and each value containing a JSON object of group privilege(s) to boolean values, overriding the default team privileges.

CREATE DATABASE

Creates a new database.

Property	Value	Required	Default
action	`"create"`	yes	
create	`"database"`	yes	
database	database definition	yes	
parent	group specifier	yes	
teams	database teams association (see below)	no	

The `teams` property is used to associate the database with one or more teams on creation. This may either be a JSON array of team specifier(s), and the database will be added to those teams with the default database privileges as specified by each team, or may be a JSON object, with each key interpretted as a team specifier, and each value containing a JSON object of database privilege(s) to boolean values, overriding the default team privileges.

CREATE TEAM

Creates a new team.

Property	Value	Required	Default
action	`"create"`	yes	
create	`"team"`	yes	
team	team definition	yes	

CREATE USER

Creates a new user.

Property	Value	Required	Default
action	`"create"`	yes	

Property	Value	Required	Default
create	`"user"`	yes	
user	user definition	yes	

ALTER

The ALTER action is used to edit group, database, field, team, or user properties.

ALTER GROUP SET

Alters one or more group parameters. Requires the `alter` privilege on the specified group.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"group"`	yes	
op	`"set"`	yes	
group	group specifier	yes	
set	JSON object map of parameter(s) to value(s)	yes	

ALTER GROUP OBJECTS

Inserts, updates, or deletes group objects. Requires the `alter` privilege on the specified group.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"group"`	yes	
op	`"objects"`	yes	
group	group specifier	yes	
objects	JSON object map of key(s) to object value(s)	yes	

Any properties in the `objects` JSON object with a `null` value will be deleted, if they exist in the group objects.

ALTER GROUP FILES

Inserts, updates, or deletes group files. Requires the `alter` privilege on the specified group.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"group"`	yes	
op	`"files"`	yes	

Property	Value	Required	Default
group	group specifier	yes	
files	JSON object map of key(s) to object ID(s)	yes	

Any properties in the `files` JSON object with a `null` value will be deleted, if they exist in the group files.

ALTER DATABASE SET

Alters one or more database parameters. Requires the `alter` privilege on the specified database.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"set"`	yes	
database	database specifier	yes	
set	JSON object map of parameter(s) to value(s)	yes	

ALTER DATABASE OBJECTS

Inserts, updates, or deletes database objects.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"objects"`	yes	
database	database specifier	yes	
objects	JSON object map of key(s) to object value(s)	yes	

Any properties in the `objects` JSON object with a `null` value will be deleted, if they exist in the database objects.

ALTER DATABASE FILES

Inserts, updates, or deletes database files. Requires the `alter` privilege on the specified database.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"files"`	yes	
database	database specifier	yes	
files	JSON object map of key(s) to object ID(s)	yes	

Any properties in the `files` JSON object with a `null` value will be deleted, if they exist in the database files.

ALTER DATABASE ADD FIELDS

Adds one or more fields to an existing database. Requires the `alter` privilege on the specified database.

This operation modifies the database table(s) and may take several hours for very large databases.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"add_fields"`	yes	
database	database specifier	yes	
fields	JSON array of field definitions	yes	
first	`boolean`	no	`false`
after	field specifier	no	

The action will fail if any of the new fields have the same name or label as eachother or any existing field in the database.

By default, new fields are added at the end of the existing fields. If `first` is true, new fields will be added at the front of the existing fields. If `after` is provided, new fields will be added immediately after the specified field, and before any following fields. If both `first` is `true` and `after` is provided, the action will fail.

ALTER DATABASE DROP FIELDS

Drops one or more fields from an existing database. Requires the `alter` privilege on the specified database.

This operation modifies the database table(s) and may take several hours for very large databases.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"drop_fields"`	yes	
database	database specifier	yes	
fields	fields specifier	yes	

The action will fail if any of the specified fields is a key field, or if the action would drop all fields from a database.

ALTER DATABASE ORDER FIELDS

Specifies ordering of one or more fields in a database. Requires the `alter` privilege on the specified database.

This operation does not modify the database table(s), only the field order as indicated by the XINA schema.

Property	Value	Required	Default

action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"order_fields"`	yes	
database	database specifier	yes	
fields	JSON array of field specifiers	yes	
after	field specifier	no	

Fields will be ordered based on the order provided in the `fields` property, with any fields not specified maintaining their original order after the specified set. If `after` is provided, the ordered block will start following that specified field, with any non-specified fields before the `after` field maintaining their original order. If the `after` field is included in the `fields` property, the action will fail.

Example

Given a database `db` with the fields order `f1`, `f2`, `f3`, `f4`, `f5`, `f6`, the action:

```
{
  "action": "alter",
  "alter": "database",
  "database": "db",
  "op": "order_fields",
  "fields": ["f4", "f2"]
}
```

The resulting field order would be `f4`, `f2`, `f1`, `f3`, `f5`, `f6`.

Given the same intial setup and action but adding `"after": "f3"`, the resulting order would be: `f1`, `f3`, `f4`, `f2`, `f5`, `f6`

ALTER DATABASE RESET PARTITIONS

Resets one or more partitions of a database record table. Requires the `alter` privilege on the specified database.

*This action permanently deletes **all data in the specified partitions**.

Unlike the DELETE action, this action immediately frees storage space in the underlying database system.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"database"`	yes	
op	`"reset_partitions"`	yes	
database	database specifier	yes	
partitions	partitions specifier	yes	

ALTER FIELD SET

Alters one or more field parameters. Requires the `alter` privilege on the specified database.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"field"`	yes	
op	`"set"`	yes	
database	database specifier	yes	
field	field specifier	yes	
set	JSON object map of parameter(s) to value(s)	yes	

ALTER FIELD OBJECTS

Inserts, updates, or deletes field objects. Requires the `alter` privilege on the specified database.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"field"`	yes	
op	`"objects"`	yes	
database	database specifier	yes	
field	field specifier	yes	
objects	JSON object map of key(s) to object value(s)	yes	

Any properties in the `objects` JSON object with a `null` value will be deleted, if they exist in the field objects.

ALTER FIELD FILES

Inserts, updates, or deletes field files. Requires the `alter` privilege on the specified database.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"field"`	yes	
op	`"files"`	yes	
database	database specifier	yes	
field	field specifier	yes	
files	JSON object map of key(s) to object ID(s)	yes	

Any properties in the `files` JSON object with a `null` value will be deleted, if they exist in the field files.

ALTER USER SET

Alters one or more user parameters. Requires the `super` privilege to alter any user other than the current user.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"user"`	yes	
op	`"set"`	yes	
user	user specifier	yes	
set	JSON object map of parameter(s) to value(s)	yes	

ALTER USER OBJECTS

Inserts, updates, or deletes user objects. Requires the `super` privilege to alter any user other than the current user.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"user"`	yes	
op	`"objects"`	yes	
user	user specifier	yes	
objects	JSON object map of key(s) to object value(s)	yes	

Any properties in the `objects` JSON object with a `null` value will be deleted, if they exist in the user objects.

ALTER USER FILES

Inserts, updates, or deletes user files. Requires the `super` privilege to alter any user other than the current user.

Property	Value	Required	Default
action	`"alter"`	yes	
alter	`"user"`	yes	
op	`"files"`	yes	
user	user specifier	yes	
files	JSON object map of key(s) to object ID(s)	yes	

Any properties in the `files` JSON object with a `null` value will be deleted, if they exist in the user files.

DROP

Permanently delete teams, groups, databases, or users.

DROP GROUP

Drops a group. This action requires the `super` privilege.

*This action permanently deletes **all data in the specified group**.*

Property	Value	Required	Default
action	`"drop"`	yes	
drop	`"group"`	yes	
group	group specifier	yes	
children	`boolean`	no	`false`

By default, if the specified group has any child groups or databases the action will fail. If `children` is `true`, all child groups and databases will also be dropped.

DROP DATABASE

Drops a database. This action requires the `super` privilege.

*This action permanently deletes **all data in the specified database**.*

Property	Value	Required	Default
action	`"drop"`	yes	
drop	`"database"`	yes	
database	database specifier	yes	
children	`boolean`	no	`false`

By default, if the specified database has any child databases the action will fail. If `children` is `true`, all child databases will also be dropped.

DROP TEAM

Drops a team. This action requires the `super` privilege.

*This action permanently deletes **all data in the specified team**.*

Property	Value	Required	Default
action	`"drop"`	yes	
drop	`"team"`	yes	
team	team specifier	yes	

DROP USER

Drops a user. This action requires the `super` privilege.

*This action permanently deletes **all data associated with the specified user**.*

Property	Value	Required	Default
action	`"drop"`	yes	
drop	`"user"`	yes	
user	user specifier	yes	

JOIN

The JOIN action joins groups, databases, or users to one or more teams.

JOIN GROUPS

JOIN DATABASES

JOIN USERS

LEAVE

The LEAVE action removes groups, databases, or users from one or more teams.

LEAVE GROUPS

LEAVE DATABASES

LEAVE USERS

User Actions

GRANT

REVOKE

REQUEST

Request an arbitrary action to be performed by a user with required permissions.

RETRACT

Retract one or more user requests.

APPROVE

REJECT

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