http (migration step)

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http

Sends one HTTP request to another system, with secrets by name and an optional signature, and keeps the answer for references.

A step of a YAML migration with `type: http`. The class `expMigrationStepHttp` (`kernel/classes/migration/steps/expmigrationstephttp.php`) is registered in `settings/migration.ini` `[StepSettings] StepTypeList[http]`.

Keys

Key	Type	Default	What it is
`method`	`string`: GET, POST, PUT, PATCH, DELETE, HEAD	`"GET"`	the method
`url`	`string`	required	http:// or https:// with a host, without a user or password
`headers`	`map`		header => value (no secrets here: secret_headers:)
`secret_headers`	`map`		header => the name of a secret (Setup > Secrets, or env:<VARIABLE>)
`bearer`	`string`		the name of a secret sent as Authorization: Bearer <value>
`body`	`string`		the body as a text
`json`	`any`		the body as JSON (Content-Type: application/json)
`sign`	`string`		the name of a secret that signs the request as webhooks of Exponential are signed
`expect`	`list`		the status codes that pass (default: any 2xx)
`timeout`	`int`	`30`	seconds

Besides these, every step takes the keys of the engine: `type`, `mode`, `if`, `references`, `environments`, `engines` and `comment` (the file format). A key of type `identifier` names a node, an object or another part of the installation by id, remote id, path or name (identifiers).

Values for references

`references: { <name>: <value> }` keeps a value of the step's result as `${ref.<name>}` for the steps and migrations after it:

Value	What it is
`status`	the status code of the answer

Value	What it is
body	the body of the answer (at most 64 KB)
json	the body decoded as JSON (null when it is not)

Undoing

A step of this type does not undo itself: a migration with it needs `down:` or a rollback to its caption.

It touches no cache.

Example

YAML

```yaml
- type: http
  method: POST
  url: https://cdn.example.com/purge
  bearer: cdn.token
  json: { paths: [ "/news/*" ] }
  expect: [ 200, 202 ]
  references: { purge_status: status }
```

Related

- All step types
- YAML migration steps

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