graphql.ini [GraphQLSettings]

The settings of [GraphQLSettings] in graphql.ini: Enabled, SiteAccessList, LibraryPath, NamingStyle, ClassList, ExcludedClassList, HiddenFieldList, HiddenDatatypeList ...

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https://doc.exponential.earth/learninminutes/exphelp/viewer/examples/ini-settings/graphql/GraphQLSettings.md

The block `[GraphQLSettings]` of `settings/graphql.ini`, with 45 setting(s).

Never edit `settings/graphql.ini` itself: an update replaces it. Put the settings you change in an override, which wins over the shipped file:

- `settings/override/graphql.ini.append.php` for every siteaccess,
- `settings/siteaccess/<siteaccess>/graphql.ini.append.php` for one siteaccess,
- `extension/<extension>/settings/graphql.ini.append.php` in an extension (read when the extension is active).

Enabled

> enabled or disabled (the default). Off until it is switched on, for every siteaccess or in the settings of one
> (settings/siteaccess/<siteaccess>/graphql.ini.append.php). Disabled: /api/graphql answers 404, the session end
> point graphql/query answers 404, nothing else changes.

Default: `disabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
Enabled=disabled
*/ ?>
```

SiteAccessList

> The siteaccesses that answer when Enabled=enabled; empty: every siteaccess. A request is answered by the
> siteaccess it matches (host, path or the X-Siteaccess header, as every REST request).

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "SiteAccessList[]" first replaces the shipped list; without it the items are added
SiteAccessList[]
*/ ?>
```

LibraryPath

> Where webonyx/graphql-php 15 is loaded from when the installation's Composer autoload has no GraphQL\GraphQL: a
> directory with vendor/autoload.php (a Composer directory that requires webonyx/graphql-php), or the package
> itself (the directory holding src/GraphQL.php). Relative to the installation root, or absolute. The environment
> variable GRAPHQL_LIBRARY_PATH is read the same way when this is empty.

Default: empty.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
LibraryPath=
*/ ?>
```

NamingStyle

> How content classes and their attributes are named in the schema:
> identifier (the default) as in the administration: the class ng_article is the type ng_article, its attribute
> short_title the field short_title
> pascal types in PascalCase (NgArticle), fields in camelCase (shortTitle)
> map as identifier, but the names of [GraphQLNaming] TypeNames[] and FieldNames[] win
> A name that is not a valid GraphQL name (a digit first, a dash) has every other character replaced by _ and a _
> in front when it starts with a digit. An attribute named like a field every content has (id, name, children ...)
> gets the suffix _field (name_field).

Default: `identifier`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
NamingStyle=identifier
*/ ?>
```

ClassList

> The classes the schema shows. Empty: every class except those of ExcludedClassList[].
> Policies always apply:
> a class in the schema is still read only by who may read its objects.

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "ClassList[]" first replaces the shipped list; without it the items are added
ClassList[]
*/ ?>
```

ExcludedClassList

> Never in the schema (unless ClassList[] names them): the user accounts, the user groups and the classes of
> settings.

Default: a list of 4: `user`, `user_group`, `common_ini_settings`, `template_look`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "ExcludedClassList[]" first replaces the shipped list; without it the items are added
ExcludedClassList[]
ExcludedClassList[]=user
ExcludedClassList[]=user_group
ExcludedClassList[]=common_ini_settings
ExcludedClassList[]=template_look
*/ ?>
```

HiddenFieldList

> Attributes never in the schema, <class>/<attribute> or */<attribute> for every class.

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "HiddenFieldList[]" first replaces the shipped list; without it the items are added
HiddenFieldList[]
*/ ?>
```

HiddenDatatypeList

> Datatypes never in the schema: the user account (login, e-mail, password hash) and the password field.

Default: a list of 2: `ezuser`, `ezpassword`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "HiddenDatatypeList[]" first replaces the shipped list; without it the items are added
HiddenDatatypeList[]
HiddenDatatypeList[]=ezuser
HiddenDatatypeList[]=ezpassword
*/ ?>
```

Introspection

> Introspection (the schema read by a client, as the playground does):
> signed-in (the default) for a request signed in by a token, a personal API key or a session;
> refused for
> anonymous requests
> enabled for every request
> disabled for none (the console commands still print the schema)

Default: `signed-in`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
Introspection=signed-in
*/ ?>
```

MaxDepth

> The deepest nesting of fields a query may have, and the highest complexity (every field counts 1, a list field
> counts its limit or first argument times the fields below it). A query over the limit is refused before it runs
> (extensions.code DEPTH_LIMIT or COMPLEXITY_LIMIT).

Default: `12`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxDepth=12
*/ ?>
```

MaxComplexity

Default: `1000`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxComplexity=1000
*/ ?>
```

MaxListLimit

> The most items one list field returns (limit, first); a bigger value is lowered to it.

Default: `100`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxListLimit=100
*/ ?>
```

DefaultListLimit

> The items a list field returns when the query does not say.

Default: `25`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
DefaultListLimit=25
*/ ?>
```

PersistedQueries

> Persisted queries: queries stored on the server (var/<site>/graphql/persisted/) and called by a name
> (GET /api/graphql?id=articles) or by their SHA-256 (Apollo's extensions.persistedQuery.sha256Hash). Stored with
> ./console exp:graphql:persist <file or directory> --apply. enabled (the default) or disabled.

Default: `enabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
PersistedQueries=enabled
*/ ?>
```

AutomaticPersistedQueries

> Who may store a query by sending its text with its SHA-256 (Apollo's automatic persisted queries):
> signed-in (the default) a request signed in by a token, a personal API key or a session
> enabled every request, the anonymous one too (at most MaxPersistedQueries are stored)
> disabled nobody; queries are stored with exp:graphql:persist only
> A query that may not be stored still runs, as an ad-hoc query.

Default: `signed-in`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
AutomaticPersistedQueries=signed-in
*/ ?>
```

MaxPersistedQueries

> The most queries the store holds before an automatic persisted query is no longer stored (exp:graphql:persist
> stores regardless).

Default: `1000`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxPersistedQueries=1000
*/ ?>
```

PersistedQueriesOnly

> Only persisted queries are run at /api/graphql (an ad-hoc query is refused with PERSISTED_QUERY_REQUIRED):
> disabled (the default) any query
> anonymous anonymous requests may run persisted queries only, signed-in ones any query
> enabled every request to /api/graphql runs persisted queries only
> The session end point (the playground of Setup > GraphQL) and the console always run any query.

Default: `disabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
PersistedQueriesOnly=disabled
*/ ?>
```

PersistedQueryDirectoryList

> Directories of persisted queries shipped with the code: every <name>.graphql file is the persisted query <name>,
> read only (exp:graphql:persist --list shows them). Relative to the installation root, or absolute; an extension
> adds its own directory in its settings/graphql.ini.append.php.
> PersistedQueryDirectoryList[]=extension/myfrontend/graphql

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "PersistedQueryDirectoryList[]" first replaces the shipped list; without it the items are added
PersistedQueryDirectoryList[]
*/ ?>
```

MaxQueryLength

> The longest query text accepted, in bytes.

Default: `100000`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxQueryLength=100000
*/ ?>
```

ResponseCache

> The response cache: the answers of persisted queries, kept per siteaccess, schema, user rights (roles and their
> limitations, as the view cache), variables and address, in var/cache/graphql/responses/. An anonymous GET of a
> persisted query is answered from it at the start of index_rest.php, before the settings and the database. Every
> answer is expired when content is published (whenever view caches are cleared), when a class changes, when
> persisted queries are stored or removed, and by ezcache --clear-id=graphql (also --clear-tag=ini and content).
> Ad-hoc queries are never kept. enabled (the default) or disabled.

Default: `enabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
ResponseCache=enabled
*/ ?>
```

ResponseCacheTtl

> Seconds an answer is kept at most, also without a publish; 0: until it is expired.

Default: `86400`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
ResponseCacheTtl=86400
*/ ?>
```

CredentialCacheTtl

> A signed-in GET of a persisted query is answered at the start of index_rest.php too, once the kernel has checked its
> token or key: the rights of the credentials (their user's roles) are remembered this many seconds
> (var/cache/graphql/credentials/), and forgotten at once when an API key, a role or a user's rights change. A token
> revoked otherwise still reads the answers cached for its rights until then. 0: signed-in requests always go
> through the kernel.

Default: `60`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
CredentialCacheTtl=60
*/ ?>
```

RateLimit

> Rate limits: the requests one signed-in user or one personal API key (RateLimit), or one IP address of anonymous
> requests (RateLimitAnonymous), may send in RateLimitWindow seconds; 0: no limit. A request over its limit is
> answered 429 with RATE_LIMITED and Retry-After; every answer carries X-RateLimit-Limit, X-RateLimit-Remaining and
> X-RateLimit-Reset. Counted in var/cache/graphql/rate/ by every web server worker alike.

> The console is not limited.

Default: `600`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
RateLimit=600
*/ ?>
```

RateLimitAnonymous

Default: `120`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
RateLimitAnonymous=120
*/ ?>
```

RateLimitWindow

Default: `60`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
RateLimitWindow=60
*/ ?>
```

SchemaExtensionList

> Schema extensions: classes implementing expGraphQLSchemaExtension that add root queries, fields of Location and the
> types of their datatypes; each answers only where it is available (its extension active). The kernel ships the one
> of eztags (the root queries tag and tags, the eztags fields as [Tag]), the one of explayouts (the root query
> layout, Location.layout) and the one of the migrations (the read-only root queries migrationStatus, migrations,
> migrationRuns and migrationRun, for users with migration/read). An extension adds its own in its
> settings/graphql.ini.append.php.

Default: a list of 3: `expGraphQLTagsExtension`, `expGraphQLLayoutsExtension`, `expMigrationGraphQLExtension`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "SchemaExtensionList[]" first replaces the shipped list; without it the items are adde
d
SchemaExtensionList[]
SchemaExtensionList[]=expGraphQLTagsExtension
SchemaExtensionList[]=expGraphQLLayoutsExtension
SchemaExtensionList[]=expMigrationGraphQLExtension
*/ ?>
```

ImageAliasList

> Image aliases (settings/image.ini) the field variations lists when the query names none; url(alias:) takes any
> alias of image.ini.

Default: a list of 3: `small`, `medium`, `large`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "ImageAliasList[]" first replaces the shipped list; without it the items are added
ImageAliasList[]
ImageAliasList[]=small
ImageAliasList[]=medium
ImageAliasList[]=large
*/ ?>
```

MutationsEnabled

> Mutations (createContent, updateContent, translateContent, publishDraft, deleteContent, moveContent, hideContent,
> revealContent, addLocation, uploadImage, uploadFromUrl, createPreviewToken): enabled (the default) or disabled.
> They come on together with the end point (Enabled above). Enabled: each mutation checks the policies of the user on
> the content it changes, runs the kernel's operations (the workflows of content/publish, content/move ... included),
> is recorded in the audit (content.graphql.mutation) and expires the response cache. A mutation is sent with POST
> only, by a signed-in user (AnonymousMutations below); with a personal API key it needs the scope graphql:write; with
> the session of the web interface it needs the form token (header X-CSRF-Token). Disabled: the schema has no type
> Mutation and a mutation is refused with DISABLED. For a read-only API, disable it per siteaccess
> (./console exp:graphql:disable --siteaccess=<name> --mutations).

Default: `enabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MutationsEnabled=enabled
*/ ?>
```

AnonymousMutations

> Mutations of anonymous requests (they run with the Anonymous role's policies): disabled (the default) refuses
> them with FORBIDDEN; enabled lets them through to the policy checks (a guest book, a form that creates content).

Default: `disabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
AnonymousMutations=disabled
*/ ?>
```

MaxUploadSize

> The largest file a mutation accepts (uploadImage, a FieldInput upload, uploadFromUrl), in bytes or with k, M, G.
> PHP's own upload_max_filesize and post_max_size limit a request before it gets here.

Default: `32M`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxUploadSize=32M
*/ ?>
```

UploadCheckList

> Checks every uploaded file passes before it is stored: classes implementing expGraphQLUploadCheck (a virus
> scanner, a type filter). The first that gives a reason refuses the file; a class that is missing refuses every
> file. UploadCheckList[]=myClamAvUploadCheck

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "UploadCheckList[]" first replaces the shipped list; without it the items are added
UploadCheckList[]
*/ ?>
```

FileDatatypeList

> Datatypes whose value is a file, besides ezimage, ezbinaryfile and ezmedia: a FieldInput writes them with an
> upload only, never with a value (a path in a value could import any file of the server).

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "FileDatatypeList[]" first replaces the shipped list; without it the items are added
FileDatatypeList[]
*/ ?>
```

UploadFromUrlHostList

> The hosts uploadFromUrl may fetch files from (https only, no redirects, at most MaxUploadSize). Empty (the
> default): uploadFromUrl is switched off. UploadFromUrlHostList[]=images.example.com

Default: an empty list.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
# an empty "UploadFromUrlHostList[]" first replaces the shipped list; without it the items are ad
ded
UploadFromUrlHostList[]
*/ ?>
```

PreviewTokenTtl

> Preview tokens (createPreviewToken, the query preview(token:)): the seconds a token is valid when the mutation
> does not say, and the longest it may ask for. The tokens are signed with the installation's secret key
> (EXP_SECRET_KEY or var/secrets/exp_secret.key); rotating it ends every token.

Default: `3600`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
PreviewTokenTtl=3600
*/ ?>
```

MaxPreviewTokenTtl

Default: `86400`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxPreviewTokenTtl=86400
*/ ?>
```

Subscriptions

> Subscriptions (subscription { contentPublished(classes: ["article"]) { objectId content { name } } }): enabled (the
> default) or disabled. They come on with the end point, at /api/graphql/subscribe: an event stream (SSE, the protocol
> graphql-sse) with PHP-FPM and with Velocity, and a WebSocket (graphql-transport-ws) through Velocity. Every event is
> sent only when the subscriber may read its content (the rights of that moment). A stream holds one PHP process (or
> Velocity worker) while it is open, but never a database connection: it follows the event journal ([GraphQLEvents])
> and opens a connection for each event it sends. Disabled: the schema has no type Subscription and /subscribe answers
> 404 with DISABLED.

Default: `enabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
Subscriptions=enabled
*/ ?>
```

AnonymousSubscriptions

> Subscriptions of anonymous requests: disabled (the default) refuses them with FORBIDDEN; enabled lets a visitor
> subscribe (a live page), within MaxSubscriptionsPerAddress and the Anonymous role's rights.

Default: `disabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
AnonymousSubscriptions=disabled
*/ ?>
```

MaxSubscriptions

> The most subscriptions open at once on the installation, for one signed-in user, and from one IP address; past a
> limit a subscription is refused with SUBSCRIPTION_LIMIT (HTTP 429). 0: no limit. Each open stream holds a process:
> keep MaxSubscriptions below what PHP-FPM's pool (pm.max_children) or Velocity's StreamShare leaves for pages.

Default: `200`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxSubscriptions=200
*/ ?>
```

MaxSubscriptionsPerUser

Default: `5`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxSubscriptionsPerUser=5
*/ ?>
```

MaxSubscriptionsPerAddress

Default: `10`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
MaxSubscriptionsPerAddress=10
*/ ?>
```

SubscriptionHeartbeat

> Seconds between two keep-alive comments of a stream; they keep proxies from closing it and find clients that left.

Default: `15`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
SubscriptionHeartbeat=15
*/ ?>
```

SubscriptionMaxDuration

> Seconds a stream stays open; then it ends and the client opens it again with Last-Event-ID, missing no event the
> journal still has (EventSource and graphql-sse clients do so by themselves; Velocity's WebSocket bridge too). Keep it
> below Velocity's StreamTimeout (300 by default) and PHP's max_execution_time is raised to it.

Default: `280`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
SubscriptionMaxDuration=280
*/ ?>
```

SubscriptionIdleTimeout

> Seconds a stream may go without sending an event before it ends the same way; 0 (the default): only
> SubscriptionMaxDuration ends it.

Default: `0`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
SubscriptionIdleTimeout=0
*/ ?>
```

SubscriptionPollInterval

> Milliseconds between two looks at the journal while nothing happens.

Default: `500`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
SubscriptionPollInterval=500
*/ ?>
```

Debug

> enabled or disabled (the default). Enabled: an error carries the PHP exception and its trace in
> extensions.debug. Only for a development siteaccess: a trace tells paths and code to whoever asks.

Default: `disabled`.

INI

```
<?php /* #?ini charset="utf-8"?
# settings/override/graphql.ini.append.php
[GraphQLSettings]
Debug=disabled
*/ ?>
```

Related

- All blocks of graphql.ini
- All INI files
- The settings page

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