

```
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```

Annotations API

This is the API documentation for the new Grafana Annotations feature released in Grafana 4.6. Annotations are saved in the Grafana database (sqlite, mysql or postgres). Annotations can be organization annotations that can be shown on any dashboard by configuring an annotation data source - they are filtered by tags. Or they can be tied to a panel on a dashboard and are then only shown on that panel.

If you are running Grafana Enterprise and have [Fine-grained access control]({{< relref "../enterprise/access-control/_index.md" >}}) enabled, access to endpoints will be controlled by Fine-grained access control permissions. Refer to specific endpoints to understand what permissions are required.

Find Annotations

```
GET /api/annotations?from=1506676478816&to=1507281278816&tags=tag1&tags=tag2&limit=100
```

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:read	annotations:*

Example Request:

```
GET /api/annotations?from=1506676478816&to=1507281278816&tags=tag1&tags=tag2&limit=100 HTTP/1.1
Accept: application/json
Content-Type: application/json
Authorization: Basic YWRtaW46YWRtaW4=
```

Query Parameters:

- **from:** epoch datetime in milliseconds. Optional.
- **to:** epoch datetime in milliseconds. Optional.
- **limit:** number. Optional - default is 100. Max limit for results returned.
- **alertId:** number. Optional. Find annotations for a specified alert.
- **dashboardId:** number. Optional. Find annotations that are scoped to a specific dashboard

- **panelId**: number. Optional. Find annotations that are scoped to a specific panel
- **userId**: number. Optional. Find annotations created by a specific user
- **type**: string. Optional. **alert|annotation** Return alerts or user created annotations
- **tags**: string. Optional. Use this to filter organization annotations. Organization annotations are annotations from an annotation data source that are not connected specifically to a dashboard or panel. To do an “AND” filtering with multiple tags, specify the tags parameter multiple times e.g. **tags=tag1&tags=tag2**.

Example Response:

HTTP/1.1 200

Content-Type: application/json

```
[
  {
    "id": 1124,
    "alertId": 0,
    "dashboardId": 468,
    "panelId": 2,
    "userId": 1,
    "userName": "",
    "newState": "",
    "prevState": "",
    "time": 1507266395000,
    "timeEnd": 1507266395000,
    "text": "test",
    "metric": "",
    "tags": [
      "tag1",
      "tag2"
    ],
    "data": {}
  },
  {
    "id": 1123,
    "alertId": 0,
    "dashboardId": 468,
    "panelId": 2,
    "userId": 1,
    "userName": "",
    "newState": "",
    "prevState": "",
    "time": 1507265111000,
    "text": "test",
    "metric": "",
```

```

    "tags": [
      "tag1",
      "tag2"
    ],
    "data": {}
  }
]

```

Starting in Grafana v6.4 regions annotations are now returned in one entity that now includes the timeEnd property.

Create Annotation

Creates an annotation in the Grafana database. The **dashboardId** and **panelId** fields are optional. If they are not specified then an organization annotation is created and can be queried in any dashboard that adds the Grafana annotations data source. When creating a region annotation include the timeEnd property.

The format for **time** and **timeEnd** should be epoch numbers in millisecond resolution.

POST /api/annotations

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:create	annotations:type:

Example Request:

```

POST /api/annotations HTTP/1.1
Accept: application/json
Content-Type: application/json

```

```

{
  "dashboardId":468,
  "panelId":1,
  "time":1507037197339,
  "timeEnd":1507180805056,
  "tags":["tag1","tag2"],
  "text":"Annotation Description"
}

```

Example Response:

HTTP/1.1 200
Content-Type: application/json

```
{
  "message": "Annotation added",
  "id": 1,
}
```

The response for this HTTP request is slightly different in versions prior to v6.4. In prior versions you would also get an `endId` if you were creating a region. But in 6.4 regions are represented using a single event with `time` and `timeEnd` properties.

Create Annotation in Graphite format

Creates an annotation by using Graphite-compatible event format. The **when** and **data** fields are optional. If **when** is not specified then the current time will be used as annotation's timestamp. The **tags** field can also be in prior to Graphite 0.10.0 format (string with multiple tags being separated by a space).

POST /api/annotations/graphite

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:create	annotations:type:organization

Example Request:

POST /api/annotations/graphite HTTP/1.1
Accept: application/json
Content-Type: application/json

```
{
  "what": "Event - deploy",
  "tags": ["deploy", "production"],
  "when": 1467844481,
  "data": "deploy of master branch happened at Wed Jul 6 22:34:41 UTC 2016"
}
```

Example Response:

HTTP/1.1 200
Content-Type: application/json

```
{
```

```

    "message": "Graphite annotation added",
    "id": 1
  }

```

Update Annotation

PUT /api/annotations/:id

Updates all properties of an annotation that matches the specified id. To only update certain property, consider using the Patch Annotation operation.

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:write	annotations:type:

Example Request:

```

PUT /api/annotations/1141 HTTP/1.1
Accept: application/json
Authorization: Bearer eyJrIjoiT0tTcG1pU1Y2RnVKZTFVaDFsNFZXdE9ZWmNrMkZYbk
Content-Type: application/json

```

```

{
  "time": 1507037197339,
  "timeEnd": 1507180805056,
  "text": "Annotation Description",
  "tags": ["tag3", "tag4", "tag5"]
}

```

Example Response:

```

HTTP/1.1 200
Content-Type: application/json

```

```

{
  "message": "Annotation updated"
}

```

Patch Annotation

This is available in Grafana 6.0.0-beta2 and above.

PATCH /api/annotations/:id

Updates one or more properties of an annotation that matches the specified id.

This operation currently supports updating of the `text`, `tags`, `time` and `timeEnd` properties.

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:write	annotations:type:

Example Request:

```
PATCH /api/annotations/1145 HTTP/1.1
Accept: application/json
Authorization: Bearer eyJrIjoiT0tTcG1pU1Y2RnVKZTFVaDFsNFZXdE9ZWmNrMkZYbk
Content-Type: application/json
```

```
{
  "text": "New Annotation Description",
  "tags": ["tag6", "tag7", "tag8"]
}
```

Example Response:

```
HTTP/1.1 200
Content-Type: application/json
```

```
{
  "message": "Annotation patched"
}
```

Delete Annotation By Id

```
DELETE /api/annotations/:id
```

Deletes the annotation that matches the specified id.

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:delete	annotations:type:

Example Request:

```
DELETE /api/annotations/1 HTTP/1.1
Accept: application/json
Content-Type: application/json
Authorization: Bearer eyJrIjoiT0tTcG1pU1Y2RnVKZTFVaDFsNFZXdE9ZWmNrMkZYbk
```

Example Response:

```
HTTP/1.1 200
Content-Type: application/json
```

```
{
  "message": "Annotation deleted"
}
```

Find Annotations Tags

```
GET /api/annotations/tags
```

Find all the event tags created in the annotations.

Required permissions See note in the [introduction]({{< ref "#annotations-api" >}}) for an explanation.

Action	Scope
annotations:read	N/A

Example Request:

```
GET /api/annotations/tags?tag=out HTTP/1.1
Accept: application/json
Content-Type: application/json
Authorization: Basic YWRtaW46YWRtaW4=
```

Query Parameters:

- **tag:** Optional. A string that you can use to filter tags.
- **limit:** Optional. A number, where the default is 100. Max limit for results returned.

Example Response:

```
HTTP/1.1 200
Content-Type: application/json
```

```
{
  "result": {
    "tags": [
      {
```

```
        "tag": "outage",  
        "count": 1  
    }  
]  
}
```