

# How To Use The REST API In Nagios Fusion 2026R2

## Purpose

This document provides a directory of REST API endpoints in Nagios Fusion 2026R2 along with details on required and optional parameters, example calls, and example responses. The Fusion REST API can be used to fetch data and programmatically manage various aspects of the system.

## Notes

- Replace {Your\_API\_Key} in the example calls with your API Key. This can be found in the **Security** section of your **Profile** in the Fusion user interface.
- Replace {Fusion\_Server} in the example calls with the IP Address/FQDN of your Fusion server.
- Send "Accept: application/json" so validation errors return JSON.
- Unless noted, responses are JSON with "Content-Type: application/json".

## Endpoint Directory

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## Users

### /api/v1/users

List or single user (with *roles*, *ldapServer* when single).

No query string or body.

**GET** /api/v1/users

**GET** /api/v1/users/{user}

**Authorization:** permission to list or view users.

### Optional parameters

| Parameter | Description                                                                     |
|-----------|---------------------------------------------------------------------------------|
| user      | Path segment: numeric user id. Omit for list; include for single-user response. |

### Example Call: List all Users

```
curl -sS -H "Authorization: Bearer {Your_API_Key}" \
    "{Fusion_Server}/api/v1/users" | jq
```

### Example Response (List, Abridged):

```
[
  {
    "id": 1,
    "name": null,
    "username": "nagiosadmin",
    "email": "address@awesomecompany.tld",
    "email_verified_at": null,
    "theme": "system",
    "language": "en_US",
    "ldap_server_id": null,
    "ldap_base_dn": null,
    "created_at": "2026-04-17T19:17:26.000000Z",
    "updated_at": "2026-04-17T19:17:26.000000Z",
    "auth_type": "Local", ...
  }
]
```

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## POST /api/v1/users

### Required parameters

| Parameter | Description                                                                       |
|-----------|-----------------------------------------------------------------------------------|
| username  |                                                                                   |
| email     |                                                                                   |
| theme     |                                                                                   |
| language  |                                                                                   |
| password  | Required when not using LDAP. Omit when ldap_server_id is set (LDAP-backed user). |

### Optional parameters

| Parameter      | Description                                |
|----------------|--------------------------------------------|
| roles          | Array of role ids                          |
| ldap_server_id | When set, LDAP path; password not required |
| ldap_base_dn   |                                            |

### Example Call: Creating a User (sensitive fields may be omitted in responses)

Creates user, attaches roles, issues Sanctum token with ability `api:access`, stores token in `api_key`.

```
curl -sS -X POST -H "Content-Type: application/json" \
  -H "Authorization: Bearer {Your_API_Key}" \
  -d '{"username":"newuser","email":"u1@example.com","password":"secret",
    "theme":"system","language":"en_US","roles":[1]}' \
  "{Fusion_Server}/api/v1/users"
```

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**PATCH /api/v1/users/{user}**

## Optional parameters

| Parameter      | Description |
|----------------|-------------|
| username       |             |
| email          |             |
| password       |             |
| theme          |             |
| language       |             |
| roles          |             |
| ldap_server_id |             |
| ldap_base_dn   |             |

**DELETE /api/v1/users/{user}**

**Note:** DELETE returns 403 if attempting to delete self.

## Example Call: Deleting User id 4

```
curl -sS -X DELETE -H "Authorization: Bearer {Your_API_KEY}" \
"{Fusion.Server}/api/v1/users/4"
```

## Example Success Response

```
{ "message": "User deleted." }
```

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## Roles

### /api/v1/roles

**Required Authorization:** Permission to list or view roles.

Both list and single-read responses use a consistent role shape.

GET /api/v1/roles

GET /api/v1/roles/{role}

**Example Call: GET Details for Role id 3**

```
curl -sS -H "Authorization: Bearer {Your_API_Key}" \
    "{Fusion_Server}/api/v1/roles/3" | jq
```

### Example Output

```
{
  "id": 3,
  "label": "Operator",
  "color": "#336699",
  "description": null,
  "type": "custom",
  "protected": false,
  "permissions": [1, 2, 3],
  "servers": { "5": [10, 11] },
  "users": []
}
```

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## POST /api/v1/roles

### Required parameters

| Parameter | Description |
|-----------|-------------|
| color     |             |
| label     |             |

### Optional parameters

| Parameter   | Description                                 |
|-------------|---------------------------------------------|
| description |                                             |
| permissions | Permission ids                              |
| users       | User ids                                    |
| servers     | Map of server_id → arrays of permission ids |

### Example Call: Creating a Role

```
curl -sS -X POST -H "Content-Type: application/json" \
  -H "Authorization: Bearer {YOUR_API_KEY}" \
  -d '{"color": "#fff", "label": "NewRole", "permissions": [1,2]}' \
  "{Fusion_Server}/api/v1/roles"
```

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PATCH /api/v1/roles/{role}

DELETE /api/v1/roles/{role}

**Note:** DELETE will return 403 if protected is true.

**Example DELETE Response:**

```
{ "message": "Role deleted." }
```

## Permissions

GET /api/v1/permissions

GET /api/v1/permissions/{permission}

*Catalog of permission records; any authenticated user can read this endpoint.*

**Example Call: GET Permissions**

```
curl -sS -H "Authorization: Bearer {YOUR_API_KEY}" \
  "{Fusion_Server}/api/v1/permissions"
```

**Example Response (abridged array element):**

```
{
  "id": 1,
  "resource": "servers",
  "action": "view",
  "label": "View servers"
}
```

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## Servers – Inventory

### `/api/v1/servers/`

Returns host, service, and group objects on individual or all **Nagios XI** and **Nagios Core** server types.

**Authorization:** If `{server}` is present, the caller must be allowed to view that server.

#### Pagination Note:

If `page` is present:

- (non-empty), responses use `per_page` (default 10, max 100), optional `search` (string), and return `{ "data": [...], "total": N }`.

Without `page`:

- With `{server}` in path: relation JSON from the server.
- Without `server`: array of visible server objects with relations (sensitive attributes hidden).

### GET `/api/v1/servers/hosts/{server?}`

#### Optional parameters

| Parameter             | Description                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| <code>server</code>   | Path segment: server id. Omit for all visible servers' hosts (see section intro).                       |
| <code>page</code>     | If present (non-empty), triggers paginated response (see <code>per_page</code> , <code>search</code> ). |
| <code>per_page</code> | Page size when paginated; default 10, max 100.                                                          |
| <code>search</code>   | String filter when paginated.                                                                           |

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## Example Call (Paginated)

Shows 1 page with up to 10 results which include the search term **apache**

```
curl -sS -H "Authorization: Bearer {YOUR_API_KEY}" \
  "{Fusion_Server}/api/v1/servers/hosts?page=1&per_page=10&search=apache" | jq
```

## Example Response (Paginated, 1 Row)

```
{
  "data": [
    {
      "server_name": "XI-MAIN",
      "server_id": 1,
      "server_url": "http://192.168.123.45/nagiosxi/",
      "server_type": "XI",
      "id": 13,
      "name": "Apache Webserver",
      "address": "192.168.145.60",
      "last_check": "2026-04-21T16:24:31.000000Z",
      "next_check": "2026-04-21T16:29:31.000000Z"
    }
  ],
  "total": 1
}
```

## GET /api/v1/servers/services/{server?}

Same optional path and query parameters as GET /api/v1/servers/hosts/{server?} (see that subsection above).

## GET /api/v1/servers/hostgroups/{server?}

Same optional path and query parameters as GET /api/v1/servers/hosts/{server?}.

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GET /api/v1/servers/servicegroups/{server?}

Same optional path and query parameters as GET /api/v1/servers/hosts/{server?}.

GET /api/v1/servers/flow-sources/{server?} (Network Analyzer Only)

Same optional path and query parameters as GET /api/v1/servers/hosts/{server?}. Paginated rows include description, port, flowtype, lifetime, is\_active, status, diskusage, traffic where present.

## Servers – Timeseries / Status

GET /api/v1/servers/polling-history

### Optional parameters

| Parameter | Description                                                                                                                                           |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| server_id | If set, resolves the server and requires <code>view</code> permission; if omitted, results are scoped to <b>visible</b> servers.                      |
| page      | If set, response is paginated: { "data": [...], "total": N }. Use with <code>per_page</code> (default 10, max 100) and optional <code>search</code> . |
| per_page  | Page size when <code>page</code> is used; default 10, max 100.                                                                                        |
| search    | String filter when paginated.                                                                                                                         |
| limit     | When <b>not</b> using <code>page</code> , non-paginated <b>array</b> of row objects; default 500, max 2000.                                           |

Do not mix pagination mode (`page` set) with the non-paginated array mode (`limit` without paginated contract above).

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**Row shape (non-paginated / data rows):** time, server\_id, server\_type, status\_code, poll\_type, duration\_seconds, status\_message, error\_message, server\_name.

**Example Call: GET Polling History for server\_id 1, limit 5**

```
curl -sS -H "Authorization: Bearer {YOUR_API_KEY}" \
  "{Fusion_Server}/api/v1/servers/polling-history?server_id=1&limit=5" | jq
```

**Example Response (Non-paginated):**

```
[
  {
    "time": 1700000000,
    "server_id": 1,
    "server_type": "XI",
    "status_code": 200,
    "poll_type": "poll",
    "duration_seconds": 2,
    "status_message": "",
    "error_message": "",
    "server_name": "XI-1"
  }
]
```

**GET /api/v1/servers/flow-sources/bandwidth/{server}**

**Requires** server type **NNA**; otherwise **400** {"error":"Server is not a NLS server"}.

**Required parameters**

| Parameter   | Description           |
|-------------|-----------------------|
| flow_source | Query: flow source id |

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## Optional parameters

| Parameter | Description                                                             |
|-----------|-------------------------------------------------------------------------|
| limit     | Default 500, max 2000                                                   |
| from      | Numeric start of time window for Influx (microseconds in query builder) |
| to        | Numeric end of time window for Influx (microseconds in query builder)   |

## Example Call: GET Bandwidth on flow\_source id 3

```
curl -sS -H "Authorization: Bearer {YOUR_API_KEY}" \
  "{Fusion_Server}/api/v1/servers/flow-sources/bandwidth/1?flow_source=3"
```

## Example Response

```
[
  { "time": 1700000000, "bytes": 1024 }
]
```

GET /api/v1/servers/cluster-health/{server}

GET /api/v1/servers/cluster-stats/{server}

GET /api/v1/servers/index-stats/{server}

**Requires** server type **NLS**; otherwise **400** {"error": "Server is not a NLS server"}.

Responses are last Influx "last(\*)" normalized objects or arrays (index-stats returns array of per-index objects with index\_name, index\_id, doc\_count, store\_size, total\_indexed).

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**GET /api/v1/servers/configured-alerts/{server}**

Returns alerts from **NLS** and **NNA** server types.

**GET /api/v1/servers/nls-alert-history/{server}**

## Optional parameters

| Parameter | Description           |
|-----------|-----------------------|
| limit     | Default 500, max 2000 |
| from      | Time window bound     |
| to        | Time window bound     |

Example element:

```
{
  "ran_on": 1700000000,
  "name": "AlertName",
  "alert_type": "type",
  "status": "OK",
  "output": ""
}
```

**GET /api/v1/servers/status/{server?}**

**Requires** {server} (returns **404** if missing).

**NNA** servers return `cpu`, `memory`, and `root_drive` blocks from Influx.

**NLS** servers return `slim cpu`, `jvm`, and `os_memory` from Cluster Stats.

**Nagios XI** and **Nagios Core** server types unavailable for this endpoint, return **400**.

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## Servers – CRUD and Operations

GET /api/v1/servers / GET /api/v1/servers/{server}

**Single Server:** path parameter `server` (required). Returns full server JSON.

**Authorization:** caller must be allowed to view that server.

*Sensitive fields hidden on list.*

### List – Optional parameters

| Parameter        | Description                                                                                                                |
|------------------|----------------------------------------------------------------------------------------------------------------------------|
| <i>(dynamic)</i> | Each query key is applied as <code>whereIn</code> on the matching server attribute; repeat parameters for multiple values. |

POST /api/v1/servers

Will return a **422** validation exception if invalid.

### Required parameters

| Parameter                      | Description                                                             |
|--------------------------------|-------------------------------------------------------------------------|
| <code>name</code>              | String, max 255                                                         |
| <code>server_type</code>       | One of XI, NNA, NLS, CORE                                               |
| <code>collection_method</code> | POLL or EVENT                                                           |
| <code>polling_interval</code>  | Integer $\geq 1$ ; required when <code>collection_method</code> is POLL |
| <code>url</code>               | Valid URL                                                               |
| <code>enabled</code>           | Boolean                                                                 |
| <code>username</code>          | Required when <code>server_type</code> is CORE                          |

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| Parameter | Description                       |
|-----------|-----------------------------------|
| password  | Required when server_type is CORE |
| cgi_bin   | Required when server_type is CORE |

## Optional parameters

| Parameter     | Description                                                                                                      |
|---------------|------------------------------------------------------------------------------------------------------------------|
| fusekey       | For non-CORE server types (FUSEKEY auth). Must not be present when server_type is CORE (validation: prohibited). |
| auth_interval | Integer minutes, min 1                                                                                           |
| timezone      | String, max 255                                                                                                  |
| location      | String, max 255                                                                                                  |
| notes         | String, max 255                                                                                                  |

## PATCH /api/v1/servers/{server}

Subset validation: only keys present in the body are validated against the same rules as create (per-field).

Use the POST /api/v1/servers field list; every field is optional on PATCH, and conditional rules apply when relevant keys are sent (e.g. polling\_interval when collection\_method is POLL).

## DELETE /api/v1/servers/{server}

Deletes the defined server and related time-series data.

Boolean response indicates whether deletion succeeded.

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## DELETE /api/v1/servers

### Required parameters

| Parameter | Description                   |
|-----------|-------------------------------|
| ids       | Array of server ids to delete |

Returns message + success.

```
{
  "message": "Servers deleted successfully!",
  "success": true
}
```

## POST /api/v1/servers/test-connection

### Required parameters

| Parameter   | Description                           |
|-------------|---------------------------------------|
| server_type |                                       |
| url         | Base URL for the probe                |
| username    | Required when server_type is CORE     |
| password    | Required when server_type is CORE     |
| cgi_bin     | Required when server_type is CORE     |
| fusekey     | Required when server_type is not CORE |

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Returns `success` boolean and human-readable `message` from the connection test.

```
{
  "success": true,
  "message": "Successfully connected to server!"
}
```

**POST /api/v1/servers/poll/{server}**

**POST /api/v1/servers/{server}/auth-check**

Dispatches jobs; no body.

## Example Call: Poll Server 1

```
curl -sS -X POST -H "Authorization: Bearer {Your_API_Key}" \
"http://{Fusion_Server}/api/v1/servers/poll/1"
```

## Example Success Response

```
{ "message": "Server polling job dispatched!" }
```

## Server Host/Service/Group Objects

Returns **all** rows from the backing tables (not scoped by per-server visibility rules).

| Method | Path                                         |
|--------|----------------------------------------------|
| GET    | /api/v1/server-objects/ <b>services</b>      |
| GET    | /api/v1/server-objects/ <b>hosts</b>         |
| GET    | /api/v1/server-objects/ <b>servicegroups</b> |
| GET    | /api/v1/server-objects/ <b>hostgroups</b>    |

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## Example Call: GET Servicegroups

```
curl -sS -H "Authorization: Bearer {Your_API_Key}" \
"{Fusion_Server}/api/v1/server-objects/servicegroups" | jq
```

## Example Response (Appended)

```
[
  {
    "id": 1,
    "server_id": 1,
    "object_id": 452,
    "name": "Local-Services",
    "alias": "Local Svc Checks No NMG",
    "is_active": true,
    "created_at": "2026-04-20T18:56:05.000000Z",
    "updated_at": "2026-04-20T18:56:05.000000Z"
  }, ...
]
```

## Dashboards

**GET /api/v1/dashboards**

**GET /api/v1/dashboards/{dashboard}**

View all visible dashboards, or one. When requesting a specific dashboard, the caller must be allowed to view it.

**GET /api/v1/dashboards/{dashboard}/dashlets**

Returns the target dashboard's included dashlets as JSON.

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## POST /api/v1/dashboards

### Required parameters

| Parameter | Description |
|-----------|-------------|
| title     |             |

### Optional parameters

| Parameter | Description                         |
|-----------|-------------------------------------|
| icon      |                                     |
| user_id   | Defaults to current user if omitted |

## PATCH /api/v1/dashboards/{dashboard}

### Optional parameters

| Parameter | Description |
|-----------|-------------|
| title     |             |
| icon      |             |

## DELETE /api/v1/dashboards/{dashboard}

### Example Success Response

```
{ "message": "Dashboard deleted successfully" }
```

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## Dashlets

**GET** /api/v1/dashlets/{id?}

**Note:** This endpoint may return **404** when a dashlet **exists** and `null` JSON when missing (inverted).  
Treat behavior as unreliable until verified; prefer fetching by id only after confirming behavior in your environment.

**POST** /api/v1/dashlets

### Required parameters

| Parameter    | Description |
|--------------|-------------|
| dashboard_id |             |
| title        |             |
| height       |             |
| width        |             |
| x            |             |
| y            |             |

### Optional parameters

| Parameter   | Description |
|-------------|-------------|
| description |             |
| display     |             |
| data        |             |

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**PATCH /api/v1/dashlets/bulk**

## Required parameters

| Parameter | Description                      |
|-----------|----------------------------------|
| dashlets  | Array of partial dashlet updates |

## Each `dashlets[]` object — required parameters

| Parameter | Description |
|-----------|-------------|
| id        | Dashlet id  |
| height    |             |
| width     |             |
| x         |             |
| y         |             |

## Example Success Response:

```
{ "message": "Dashlets updated." }
```

**PATCH /api/v1/dashlets/{dashlet}**

**DELETE /api/v1/dashlets/{id}**

Outputs standard update/delete responses.

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## Views

GET /api/v1/views / GET /api/v1/views/{view}

List of Views or single View with dashboards relation.

POST /api/v1/views

### Required parameters

| Parameter | Description |
|-----------|-------------|
| title     |             |

### Optional parameters

| Parameter  | Description                   |
|------------|-------------------------------|
| user_id    |                               |
| dashboards | Ordered list of dashboard ids |

PATCH /api/v1/views/{view}

DELETE /api/v1/views/{view}

### Optional parameters

| Parameter      | Description |
|----------------|-------------|
| title          |             |
| rotation_speed |             |
| dashboards     |             |

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## Audit logs

**GET /api/v1/audit-logs**

Returns paginated audit entries with total and limit/offset metadata.

### Optional parameters

| Parameter | Description                                                           |
|-----------|-----------------------------------------------------------------------|
| q         | Search term                                                           |
| sort_by   | Default created_at. One of created_at, username, event_type, event_ip |
| sort_dir  | Default desc. asc or desc                                             |
| limit     | Default 500; capped at 2000                                           |
| offset    | Default 0                                                             |

### Example Call: Fetch last 50 entries in the Audit Log

```
curl -sS -H "Authorization: Bearer {YOUR_API_KEY}" \
  "{Fusion_Server}/api/v1/audit-logs?q=login&limit=50&offset=0" | jq
```

### Example Response

```
{
  "data": [
    {
      "id": 1,
      "user_id": 1,
      "username": "admin",
      "event_type": "DATABASE",
      "event_details": "...",
      "event_ip": "10.0.0.1",
      "created_at": "2025-01-01 12:00:00"
    }
  ],
  "total": 100,
  "limit": 50,
  "offset": 0
}
```

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## LDAP

GET /api/v1/ldap/servers / GET /api/v1/ldap/servers/{server}

List wraps { "servers": [...] }; single returns one LDAP server object including users\_count.

POST /api/v1/ldap/servers / PATCH / DELETE

### POST- Required parameters

| Parameter          | Description                                                              |
|--------------------|--------------------------------------------------------------------------|
| encryption         | One of the app's LdapEncryption values                                   |
| ldap_type          | One of the app's LdapType values (e.g. generic LDAP vs Active Directory) |
| ldap_host          | Required when ldap_type is generic LDAP                                  |
| ldap_port          | Required when ldap_type is generic LDAP (integer)                        |
| account_suffix     | Required when ldap_type is Active Directory                              |
| domain_controllers | Required when ldap_type is Active Directory                              |

### POST – Optional parameters

| Parameter | Description |
|-----------|-------------|
| enabled   | Boolean     |
| name      | String      |
| base_dn   | String      |

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## PATCH — Optional parameters

(send only fields to change; validation is per-field with the same conditional rules as POST when `ldap_type` is updated)

| Parameter                       | Description                                                 |
|---------------------------------|-------------------------------------------------------------|
| <code>enabled</code>            | Boolean                                                     |
| <code>name</code>               | String                                                      |
| <code>base_dn</code>            | String                                                      |
| <code>encryption</code>         | Enum                                                        |
| <code>ldap_type</code>          | Enum                                                        |
| <code>ldap_host</code>          | Required if <code>ldap_type</code> becomes generic LDAP     |
| <code>ldap_port</code>          | Required if <code>ldap_type</code> becomes generic LDAP     |
| <code>account_suffix</code>     | Required if <code>ldap_type</code> becomes Active Directory |
| <code>domain_controllers</code> | Required if <code>ldap_type</code> becomes Active Directory |

## Example DELETE Success Response

```
{ "message": "LDAP Server deleted." }
```

## GET /api/v1/ldap/certs

## GET /api/v1/ldap/certs/{cert}

List or single LDAP certificate object.

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## POST /api/v1/ldap/certs

### Required parameters

| Parameter   | Description |
|-------------|-------------|
| hostname    |             |
| certificate | PEM string  |

Success returns the created certificate object; **409** if duplicate fingerprint.

## DELETE /api/v1/ldap/certs/{cert}

### Example Response

```
{ "message": "LDAP Certificate deleted." }
```

## POST /api/v1/ldap/certs/extract-cn

### Required parameters

| Parameter   | Description                                |
|-------------|--------------------------------------------|
| certificate | PEM or embedded cert material in JSON body |

### Example Response

```
{ "cn": "ldap.example.com" }
```

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## POST /api/v1/ldap/servers/{server}/connection/bind

### Required parameters

| Parameter | Description |
|-----------|-------------|
| username  |             |
| password  |             |

### Example Success Response

```
{ "success": true }
```

**400** may return *message* and optional *error\_code* on LDAP errors.

## POST /api/v1/ldap/servers/{server}/connection/entries

### Required parameters

| Parameter | Description |
|-----------|-------------|
| username  |             |
| password  |             |

### Optional parameters

| Parameter | Description |
|-----------|-------------|
| query     |             |
| param     |             |

# How To Use The REST API In Nagios Fusion 2026R2

## Example Success Response

```
{
  "hierarchy": {},
  "results": []
}
```

(*hierarchy* is a nested tree; *results* are sanitized LDAP results).

## POST /api/v1/ldap/servers/{server}/connection/import

### Required parameters

| Parameter | Description                                                                                                   |
|-----------|---------------------------------------------------------------------------------------------------------------|
| users     | Array of user objects. Body may be { "users": [ ... ] } or a JSON <b>array</b> at root (normalized to users). |

### Each `users[]` object – required parameters

| Parameter    | Description                                                                       |
|--------------|-----------------------------------------------------------------------------------|
| display_name |                                                                                   |
| username     |                                                                                   |
| email        |                                                                                   |
| roles        | Must be present; may be empty. Each element is an integer role id that must exist |
| type         |                                                                                   |

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Each `users[]` object – optional parameters

| Parameter           | Description |
|---------------------|-------------|
| ldap_server_id      |             |
| directory_server_id |             |
| dn                  |             |

## Example Success Response

```
{ "success": true }
```

## Non-Existant Paths Footnote

GET /api/v1/{any}

This catch-all will return a **404** for non-existent API paths.

## Finishing Up

This completes the documentation on Using the REST API in Nagios Fusion 2026R2. If you have additional questions or other support-related questions, please visit the Nagios Support Forum, Nagios Documentation Hub, or Nagios Library:

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