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# NNELS API v1.1 Documentation

Version 0.5 used Services and Services Views.

Version 1.x uses RESTful framework.

## Current Testing Server

Host	dev.nnels.ca
Base Endpoint	api
Example	<a href="https://dev.nnels.ca/api/v[:version.minor]/[:resource]/">https://dev.nnels.ca/api/v[:version.minor]/[:resource]/</a>

## Notes

- Authenticate against the <api\_endpoint>/login-token/ resource with Basic Authentication to gain **access\_token**
- Bear the **access\_token** for authorization for all other requests before its expiry period.
- Refresh against <api\_endpoint>/refresh-token/ with the **refresh\_token** supplied by initial authentication
- If receiving uid 0 back from a specific user request, this means your access token expired.

### Discover Resources and their versions

To discover a list of available resources and the latest version for each, issue:

```
GET /api/  
Host: [:current host]
```

## AuthN

### Request Example

Use Basic Auth to encode username:pass

```
GET /api/login-token HTTP/1.1  
Host: dev.nnels.ca  
Authorization: Basic dGVzdC1hY2NvdW50m5vdFJlYWw=
```

### Response structure

```
{  
  "data": [  
    {
```

```

        "access_token": {
            "data": {
                "type": "text",
                "required": false
            },
            "info": {
                "label": "Token",
                "description": "Authentication token \"token\"
property."
            }
        },
        "type": [],
        "expires_in": {
            "data": {
                "type": "integer",
                "required": false
            },
            "info": {
                "label": "Expire",
                "description": "Authentication token \"expire\"
property."
            }
        },
        "refresh_token": {
            "info": {
                "label": "Refresh token",
                "description": "Token used to get a new access token
once it is expired."
            },
        }
    },
    "self": {
        "title": "Self",
        "href": "https://dev.nnels.ca/api/login-token"
    }
}

```

## AuthZ

Set access-token header with value for subsequent requests.

## Refresh Token

After expires\_in reaches 0, a new access\_token can be requested with:

```
GET /api/refresh-token/[:refresh_token] HTTP/1.1
```

Host: dev.nnels.ca

## USERS

- User can request information about self with `users/me`
- Administrator can request information about specific users by their ID: `v1.1/users/[:id]`
- Or a users listing: `v1.1/users/`

### User Request example

```
GET /api/users/me HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

### Response structure

```
{
  "data": [
    {
      "id": {
        "info": {
          "label": "ID",
          "description": "Base ID for the entity."
        },
        "data": {
          "type": "integer",
          "required": true,
          "read_only": true,
          "cardinality": 1
        }
      },
      "label": {
        "info": {
          "label": "Label",
          "description": "The label of the resource."
        },
        "data": {
          "type": "string",
          "read_only": false,
          "cardinality": 1,
          "required": false,
          "size": 255
        }
      },
      "self": [],
      "mail": {
        "data": {
```

```
        "type": "text",
        "required": true
    },
    "info": {
        "label": "Email",
        "description": "The email address of the user account."
    }
}
},
"self": {
    "title": "Self",
    "href": "https://staging.nnels.ca/api/v1.0/users/117"
}
}
```

## BASIC SEARCH (Keywords)

### Request Example

URL-encode keywords and append to resource

```
GET /api/basic_search/keyword1+keyword2+keyword3 HTTP/1.1
Host: dev.nnels.ca
Authorization: Basic dGVzdC1hY2NvdW50m5vdFJlYWw=
```

## REPO\_ITEMS

### Specific Repo Item Request example

#### With node ID (nid)

```
GET /api/v1.0/repo_items/[:nid] HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

#### Alternate load by UUID (uuid)

```
GET /api/v1.0/repo_items/uuid=[:uuid]?loadByFieldName=uuid HTTP/1.1
Host: dev.nnels.ca
access-token: [:access-token]
```

## Response structure

```
{
  "data": [
    {
      "label": {
        "info": {
          "label": "Label",
          "description": "The label of the resource."
        },
        "data": {
          "type": "string",
          "required": false,
          "read_only": false,
          "cardinality": 1,
          "size": 255
        },
        "form_element": {
          "type": "textfield",
          "default_value": "",
          "placeholder": "",
          "size": 255,
          "allowed_values": null,
          "title": "label",
          "description": "The label of the resource."
        }
      },
      "creators": {
        "info": {
          "label": "Creator",
          "description": ""
        },
        "form_element": {
          "allowed_values": [],
          "default_value": null,
          "type": "text_textfield",
          "title": "creators"
        }
      },
      "languages": {
        "info": {
          "label": "Language",
          "description": ""
        },
        "form_element": {
          "default_value": [
            {
              "value": "eng"
            }
          ],
        }
      }
    }
  ],
}
```

```
        "type": "options_buttons",
        "title": "languages"
    },
    },
    "isbn": {
        "info": {
            "label": "ISBN",
            "description": ""
        },
        "form_element": {
            "allowed_values": [],
            "default_value": null,
            "type": "text_textfield",
            "title": "isbn"
        }
    },
    },
    "uuid": {
        "data": {
            "type": "text",
            "required": false
        },
        "info": {
            "label": "UUID",
            "description": "The universally unique ID."
        }
    },
    },
    "published_date": {
        "info": {
            "label": "Date",
            "description": ""
        },
        "form_element": {
            "allowed_values": [],
            "default_value": null,
            "type": "field_collection_embed",
            "title": "published_date"
        }
    },
    },
    "file_resources": {
        "data": {
            "type": "integer",
            "required": false
        },
        "info": {
            "label": "Node ID",
            "description": "The unique ID of the node."
        }
    },
    },
    },
    },
    ],
```



```
"self": {  
  "title": "Self",  
  "href": "https://dev.nnels.ca/api/v1.0/repo_items/6804"  
}  
}
```

## Notes

- The **file\_resources** field contains signed S3 URIs to the files available for download for this title. This is excluded from cache and so will be regenerated upon each GET request.
- Issue GET against /repo-items/?range=N for a listing of N repo items.
- Follow root links element for paging URIs (self, first, previous, last, next)

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