**Log File API**

The log file API fetches and searches the contents of log files in unix-based server machines. It retrieves newest lines first, and also supports specifying the number of lines to retrieve, keywords to search.

**API Endpoints:**

1. **Retrieve log lines**

**Description:** Retrieve list of log lines in newest first order, with ability to specify number of lines to retrieve and keywords to search.

GET /api/v1/logs

**Query Parameters:**

* filename (required):

Description: Specifies the name/path of the log file inside the ‘/var/log/’ directory.

Type: String

* keyword (optional):

Description: The keyword or phrase to search for within the log file.

Type: String

* n (optional):

Description: Specifies the last number of lines or lines with keyword (if keyword specified) to be returned

Type: integer

* page (optional):

Description: Specifies the page number for pagination.

Type: integer

**Responses**

* **200 OK**

Description: Successful response containing the lines or search results.

Content-Type: application/json

{

    "page": 1,

    "page\_size": 5,

    "line\_count": 5,

    "data": [

        "Line 20 file content",

        "Line 19 file content"

"Line 18 file content",

        "Line 17 file content"

"Line 16 file content",

    ],

    "next\_page": **{next\_page\_url}**,

    "previous\_page": **null**

}

* **400** Bad Request

Description: If mandatory parameter “filename” is missing

{

    "errors": [

        {

            "field\_name": "filename",

            "message": "Field required"

        }

    ]

}

Description: If a parameter gets an invalid value

{

    "errors": [

        {

            "field\_name": "n",

            "message": " Input should be a valid integer,"

        }

    ]

}

* **404** Not Found

Description: If log file is not found.

{

    "status": 404,

    "message": "File not found."

}

* **500** Internal Server Error

Description: Exception occurs while processing the request.

{

    "status": 500,

    "message": "Internal Server Error."

}

1. **List log files**

**Description:** Retrieve list of log filenames with their relative paths inside the “var\log” folder.

GET /api/v1/files

**Responses**

* **200 OK**

Description: Successful response containing the log file names.

Content-Type: application/json

{

    "file\_count": 3,

    "files": [

        "bootstrap.log",

        "app1\errors.log"

"dpkg.log",

    ],

}