

# phpIPAM

## Introduction

phpIPAM - Open source IP address management.

phpipam is an open-source web IP address management application (IPAM). Its goal is to provide light, modern and useful IP address management. It is php-based application with MySQL database backend, using jQuery libraries, ajax and HTML5/CSS3 features.

URLs:

- Home: <https://phpipam.net/>
- API: [https://phpipam.net/api/api\\_documentation/](https://phpipam.net/api/api_documentation/)
- Github: <https://github.com/phpipam/>

## Installation

- <https://phpipam.net/documents/installation/>

## Requirements

1. Apache2 webserver with php support or Nginx with php-fpm
2. Mysql server (5.1+)
3. PHP:
  - version 5.3 supported to phpipam version 1.3.1
  - version 5.4
  - version 7.2 and higher supported from phpipam release 1.3.2
4. PHP modules:
  - pdo, pdo\_mysql : Adds support for mysql connections
  - session : Adds persistent session support
  - sockets : Adds sockets support
  - openssl : Adds openSSL support
  - gmp : Adds support for dev-libs/gmp (GNU MP library) -> to calculate IPv6 networks
  - ldap : Adds LDAP support (Lightweight Directory Access Protocol – for AD also)
  - crypt : Add support for password encryption
  - SimpleXML: Support for SimpleXML (optional, for RIPE queries and if required for API)
  - json: Enable JSON support

- gettext: Enables translation
  - filter : Adds filtering support
  - pcntl : Add support for process creation functions (optional, required for scanning)
  - cli : Enable CLI (optional, required for scanning and status checks)
  - mbstring : Enable mbstring support
5. php PEAR support

You can check which php modules are enabled by issuing `php -m` in command line.

## API Develop

### Enable API and Create new API Key (code)

By default, the API is Disabled, go to Enable it first.

IPAM Web > Administration > Server management > phpIPAM settings > API: ON

IPAM Web > Administration > API > Create API Key

- App id: devappro (??? app ???????? APP ????? app\_id)
- App code: <??????????>
- App permissions: Read (????????)
- App security: User token (????????? HTTPS??????? User token)
- Transaction locking: No
- Lock timeout: 0
- Nest custom fields: No
- Show links: No

#### “ NOTE:

?? App security ? User token??? API ?????????? HTTP?????????????  
`config.php` ????

```
$api_allow_unsafe = true;
```

## API Test with curl

API ????

1. ???????????? IPAM ???/? ?????? Token???????? 6 ???
2. ??? API ????? header ???????? Token????????????? *Unauthorized?*
3. ????? API Key ? ??? Token ?????????????????? API Client ?????? Token?

4. Token ?????????????????? API ???
- ?????? Token?
  - ?????????? Token?(?: ? Token ??????)

???????? token: /api/{app\_id}/user/

TIP: ?????????????????????

```
#> curl -X POST --user admin:thisispassword http://10.10.2.207/api/devappro/user/ -i

HTTP/1.1 200 OK
Date: Wed, 15 Jun 2022 05:40:01 GMT
Server: Apache/2.4.6 (CentOS) PHP/5.4.16
X-Powered-By: PHP/5.4.16
Set-Cookie: phpipam=ttm3cg1ctpq1vqn2lv1rht3kl1; expires=Thu, 16-Jun-2022 05:40:01 GMT; path=/; HttpOnly
Expires: Thu, 19 Nov 1981 08:52:00 GMT
Cache-Control: no-cache
Pragma: no-cache
Content-Length: 116
Content-Type: application/json; charset=utf-8

{"code":200,"success":true,"data":{"token":"7dMGzul08SsPMhDDOK-oZdBk","expires":"2022-06-15 19:40:01"},"time":0.009}
```

?? token ????: /api/{app\_id}/user/token\_expires/

```
#> curl -X GET http://10.10.2.207/api/devappro/user/token_expires/ --header "token: 7dMGzul08SsPMhDDOK-oZdBk"

{"code":200,"success":true,"data":{"expires":"2022-06-15 19:44:31"},"time":0.002}
```

?? token ????: /api/{app\_id}/user/

TIP: ?????? 6 ?????????????????? 6 ??

```
curl -X PATCH http://10.10.2.207/api/devappro/user/ --header "token: 7dMGzul08SsPMhDDOK-oZdBk"

{"code":200,"success":true,"data":{"expires":"2022-06-15 21:11:37"},"time":0.004}
```

? IP ??????: /api/{app\_id}/addresses/search/{ip-address}/

```
# IP is existed.

curl -X GET http://10.10.2.207/api/devappro/addresses/search/10.10.1.8 --header "token:
```

```
7dMGzul08SsPMhDDOK-oZdBk"
```

```
{"code":200,"success":true,"data":[{"id":"271","subnetId":"22","ip":"10.10.1.8","is_gateway":null,"description":"FAB A-VM Server-VM05","hostname":"TPECIMVM05","mac":null,"owner":null,"tag":"2","deviceId":null,"location":"3","port":null,"note":null,"lastSeen":"2022-06-15 13:30:01","excludePing":null,"PTRignore":null,"PTR":"0","firewallAddressObject":null,"editDate":"2022-06-15 13:30:10","customer_id":null}], "time":0.017}
```

```
# IP not found
```

```
curl -X GET http://10.10.2.207/api/devappro/addresses/search/10.10.1.7 --header "token:
```

```
7dMGzul08SsPMhDDOK-oZdBk"
```

```
{"code":200,"success":false,"message":"Address not found","time":0.007}
```

????

- Perl5 Interface: <https://github.com/natxo/phpipam-API>
- [11 Best IP Address Management Tools for Linux Network](#)

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