



FHQ 2014 Manual's

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With support by



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Chapter 1

Configuration's

1.1 MySQL (or MariaDB)

Install on server git-core.

```
root@debian:~# apt-get install git-core
```

Clone repository:

```
root@debian:~# git clone https://github.com/sea-kg/fhq fhq.github.temp
root@debian:~# mysql -u root -p -h localhost \
< fhq.github.temp/sql/init_database_freehackquest.sql
```

or look sql-script

```
https://github.com/sea-kg/fhq/blob/master/sql/init\_database\_freehackquest.sql
```

1.2 iptables

Some settings.

Linux and iptables.

Add to the firewall permission for the server (if it is not on the local machine)

```
# iptables -A INPUT -p tcp -s 0/0 --sport 1024:65535 -d 172.16.53.102 \
--dport 3306 -m state --state NEW,ESTABLISHED -j ACCEPT
# iptables -A OUTPUT -p tcp -s 172.16.53.102 --sport 3306 -d 0/0 \
--dport 1024:65535 -m state --state ESTABLISHED -j ACCEPT
# iptables-save
```

Check that the records were

```
# iptables -L INPUT -n -v --line-numbers
# iptables -L OUTPUT -n -v --line-numbers
```

To delete an record: 1. find a number

```
# iptables -L INPUT -n -v --line-numbers
```

2. and delete

```
# iptables -D INPUT number_of_your_entry
```

And of course, keep

```
# iptables-save
```

1.3 Firewall on CentOS 7 (use firewalld)

Some settings.

CentOS and MariaDB and Firewall.

CentOS 7 + firewalld:

```
# firewall-cmd --zone=public --add-port=3306/tcp --permanent
# firewall-cmd --reload
```

1.4 Apache

Setting up a domain name.

Add to /etc/apache2/sites-available/default next text:

```
<VirtualHost *:80>
    Options -Indexes FollowSymLinks MultiViews
    DocumentRoot /var/www/fhq/
    ServerName fhq.keva.su
    ErrorLog /var/log/apache2/fhq.keva.su-error_log
    CustomLog /var/log/apache2/fhq.keva.su-access_log common

    <Directory "/var/www/fhq/files">
        AllowOverride None
        Options -Indexes
        Order allow,deny
        Allow from all
    </Directory>

    <Directory /var/www/fhq/config>
        Order deny,allow
        Deny from all
    </Directory>
</VirtualHost>
```

OR you can copy the file from

```
https://github.com/sea-kg/fhq/blob/master/manual/fhq.config.example
```

to file `"/etc/apache2/sites-available/fhq.config"`

1.5 PHP5

Install and configure

```
root@debian# apt-get install php5
```

If not working captcha:

```
root@debian# apt-get install php5-gd
```

To work with sending e-mails:

```
root@debian# apt-get install php-pear
root@debian# pear install Mail-1.2.0
root@debian# pear install Net_SMTp
```

Install git:

```
root@debian# apt-get install git-core
```

Download source code:

```
root@debian# cd ~
root@debian~# git clone https://github.com/sea-kg/fhq.git fhq.git
root@debian~# cd fhq.git
```

Then just do a link:

```
root@debian~# ln -s "'pwd'/php/fhq" "/var/www/fhq"
```

Next, copy and configure:

```
root@debian~# cp /var/www/fhq/config.php.inc /var/www/fhq/config.php
```

Chapter 2

API

text to insert

2.1 Auth

2.1.1 Sign in/Login

This function access for all.

URL:

```
http://fhq.keva.su/api/auth/sign_in.php
```

Input parameters (GET or POST):

- **email** - identifier of user
- **password** - password of user

Successfully response:

```
{
  "result": "ok"
}
```

Also look [Errors in auth](#)

2.1.2 Restore Password

This function access for all.

URL:

```
http://fhq.keva.su/api/auth/restore.php
```

Captcha URL:

```
http://fhq.keva.su/captcha.php
```

Input parameters (GET or POST):

- **email** - identifier of user
- **captcha** - captcha

Successfully response:

```
{
  "result": "ok",
  "data": {
    "message": "Check your your e-mail (also check spam)."
  }
}
```

Also look [Errors in auth](#)

2.1.3 Registration

This function access for all.

URL:

```
http://fhq.keva.su/api/auth/registration.php
```

Captcha URL:

```
http://fhq.keva.su/captcha.php
```

Input parameters (GET or POST):

- **email** - new identificator for user (email)
- **captcha** - captcha

Successfully response:

```
{
  "result": "ok",
  "data": {
    "message": "Check your your e-mail (also check spam)."
```

Also look [Errors in auth](#)

2.2 Games

2.2.1 List of quests

This function access for all.

URL:

```
http://fhq.keva.su/api/games/list.php
```

// TODO paging Input parameters (GET or POST):

- no

Successfully response:

```
{
  "result": "ok",
  "data": {
    "2014-12-20 23:30:00": {
      "id": "5",
      "title": "FHQ 2014",
      "type_game": "jeopardy",
      "date_start": "2014-12-20 23:30:00",
      "date_stop": "2014-12-31 23:00:00",
      "date_restart": "2015-01-02 20:00:00",
      "description": "The game will be last<br>\nFor searching hackers<br>\n<a href='\"http://cs7009.vk.me/c625821/v625821429/ff45/dYYxQRlVhJg.jpg\"'>http://cs7009.vk.me/c625821/v625821429/ff45/dYYxQRlVhJg.jpg",
      "logo": "http://cs7009.vk.me/c625821/v625821429/ff45/dYYxQRlVhJg.jpg",
      "owner": "220",
      "nick": "[keva] sea-kg",
      "permissions": {
        "delete": true,
        "update": true
      }
    },
    "2014-04-01 10:00:00": {
      "id": "4",
      "title": "SibirCTF 2014 J (Copy)",
      "type_game": "jeopardy",
      "date_start": "2014-04-01 10:00:00",
      "date_stop": "2014-04-01 15:00:00",
      "date_restart": "2014-04-02 09:00:00",
      "description": "Copies tasks from\n<a href='\"http://sibirctf.org\"'>sibi",
      "logo": "http://fhq.keva.su/files/icons/logo_sibirctf2014.png",
      "owner": "220",
      "nick": "[keva] sea-kg",
      "permissions": {
        "delete": true,
        "update": true
      }
    }
  }
}
```

```

    }
  },
  "2013-10-06 09:00:00": {
    "id": "3",
    "title": "FHQ 2013",
    "type_game": "jeopardy",
    "date_start": "2013-10-06 09:00:00",
    "date_stop": "2013-10-18 21:00:00",
    "date_restart": "2013-10-20 09:00:00",
    "description": "Game for search hackers",
    "logo": "files\\orig\\minilogo_old.png",
    "owner": "220",
    "nick": "[keva] sea-kg",
    "permissions": {
      "delete": true,
      "update": true
    }
  },
  "2012-10-06 09:00:00": {
    "id": "1",
    "title": "FHQ 2012",
    "type_game": "jeopardy",
    "date_start": "2012-10-06 09:00:00",
    "date_stop": "2012-10-17 16:00:00",
    "date_restart": "2012-10-19 09:00:00",
    "description": "The game for search hackers",
    "logo": "files\\orig\\minilogo_old.png",
    "owner": "220",
    "nick": "[keva] sea-kg",
    "permissions": {
      "delete": true,
      "update": true
    }
  }
},
"current_game": "5",
"permissions": {
  "insert": true
}
}

```

Also look [Errors in games](#)

2.2.2 Get Game Info

This function access for all.

URL:

```
http://fhq.keva.su/api/games/get.php
```

Input parameters (GET or POST):

- **id** - identifier of game (integer)

Successfully response:

```
{
  "result": "ok",
  "data": {
    "id": "5",
    "type_game": "jeopardy",
    "title": "SibirCTF 2014 J",
    "date_start": "2014-03-27 00:00:00",
    "date_stop": "2014-03-28 00:00:00",
    "date_restart": "2014-04-01 08:00:00",
    "description": "Game was offline at 1 April 2014 in Tomsk",
    "logo": "logo_2014-03-14_starosta.png",
    "owner": "46"
  }
}
```

Errors in games

2.2.3 Select Game

This function access for all.

URL:

```
http://fhq.keva.su/api/games/choose.php
```

Input parameters (GET or POST):

- **id** - identifier of game (integer)

Successfully response:

```
{
  "result": "ok",
  "data": {
    "id": "5",
    "type_game": "jeopardy",
    "title": "SibirCTF 2014 J",
    "date_start": "2014-03-27 00:00:00",
    "date_stop": "2014-03-28 00:00:00",
```

```

        "date_restart": "2014-04-01 08:00:00",
        "logo": "logo_2014-03-14_starosta.png",
        "owner": "46",
        "description": "Game was offline at 1 April 2014 in Tomsk",
    }
}

```

Also look [Errors in games](#)

2.2.4 Scoreboard

This function access for all.

URL:

```
http://fhq.keva.su/api/games/scoreboard.php
```

// TODO paging Input parameters (GET or POST):

- **gameid** - identifier of game (integer)

Successfully response:

```

{
  "result": "ok",
  "data": {
    "1": [{
      "nick": "sea-kg",
      "score": "1161"
    }],
    "2": [{
      "nick": "user",
      "score": "111"
    }, {
      "nick": "user1",
      "score": "111"
    }]
  },
  "gameid": "7"
}

```

Also look [Errors in games](#)

2.2.5 Refresh User's Score

This function access for all authorized users.

Must be selected game.

Refreshing user's score.

URL:

```
http://fhq.keva.su/api/games/update_score.php
```

Input parameters (GET or POST):

- no

Successfully response:

```
{
  "result": "ok",
  "data": [],
  "user": {
    "score": "1161"
  }
}
```

Also look [Errors in games](#)

2.2.6 Insert Game Info

This function access only for admin.

URL:

```
http://fhq.keva.su/api/games/insert.php
```

Input parameters (GET or POST):

- **uuid_game** - global identificator of the game (text)
- **title** - name of the game (text)
- **logo** - link to image (text)
- **type_game** - type of the game (text) possible values: "jeopardy" or "attack-defence"
- **date_start** - start date of the game (datetime, format: '0000-00-00 00:00:00')
- **date_stop** - stop date of the game (datetime, format: '0000-00-00 00:00:00')
- **date_restart** - restart date of the game (datetime, format: '0000-00-00 00:00:00')
- **description** - description of the game

Successfully response:

```
{
  "result": "ok",
  "data" : {
    "game" : {
      "id" : 2
    }
  }
}
```

Also look [Errors in games](#)

2.2.7 Update Game Info

This function access only for admin.

URL:

```
http://fhq.keva.su/api/games/update.php
```

Input parameters (GET or POST):

- **id** - identifier of the game (number)
- **title** - name of the game (text)
- **logo** - link to image (text)
- **type_game** - type of the game (text) possible values: "jeopardy" or "attack-defence"
- **date_start** - start date of the game (datetime, format: '0000-00-00 00:00:00')
- **date_stop** - stop date of the game (datetime, format: '0000-00-00 00:00:00')
- **date_restart** - restart date of the game (datetime, format: '0000-00-00 00:00:00')
- **description** - description of the game

Successfully response:

```
{
  "result": "ok"
}
```

Also look [Errors in games](#)

2.2.8 Remove Game

This function access only for admin.

URL:

```
http://fhq.keva.su/api/games/delete.php
```

Captcha URL:

```
http://fhq.keva.su/captcha.php
```

Input parameters (GET or POST):

- **id** - identificator of game (integer)
- **captcha** - captcha (text)

Successfully response:

```
{  
  "result": "ok"  
}
```

Also look [Errors in games](#)

2.3 Code errors

Example response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 785,
    "message": "Error 785: incorrect id"
  }
}
```

2.3.1 Errors in auth

2.3.2 Errors in games

Request:

```
http://fhq.keva.su/api/games/choose.php?id=5s
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 705,
    "message": "Error 705: incorrect id"
  }
}
```

Request:

```
http://fhq.keva.su/api/games/choose.php
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 713,
    "message": "Error 713: not found parameter id"
  }
}
```


Request:

```
http://fhq.keva.su/api/games/choose.php?id=77
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 702,
    "message": "Error 702: Game with id=77 are not exists"
  }
}
```

Request:

```
http://fhq.keva.su/api/games/delete.php?id=5s
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 785,
    "message": "Error 785: incorrect id"
  }
}
```

Request:

```
http://fhq.keva.su/api/games/delete.php
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 789,
    "message": "Error 789: not found parameter \"id\""
  }
}
```

Request:

```
http://fhq.keva.su/api/games/delete.php
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 789,
    "message": "Error 789: not found parameter 'id'"
  }
}
```

Request:

```
http://fhq.keva.su/api/games/delete.php?id=4
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 788,
    "message": "Error 788: not found parameter 'captcha'"
  }
}
```

Request:

```
http://fhq.keva.su/api/games/delete.php?id=4&captcha=ghjk
```

Fail response:

```
{
  "result": "fail",
  "data": [],
  "error": {
    "code": 787,
    "message": "Error 787: captcha incorrect HJER ghjk"
  }
}
```