TuxCare Portal APIs

API URL

Root URL for all REST services is: https://portal.tuxcare.com/api

API overview

Authentication token is produced by combining: user_login|timestamp|sha1(secret_key + timestamp).

```
customer_login|1401189361|97e17a41ea904e0ca2bf03c7c36dee2492ba89cd
```

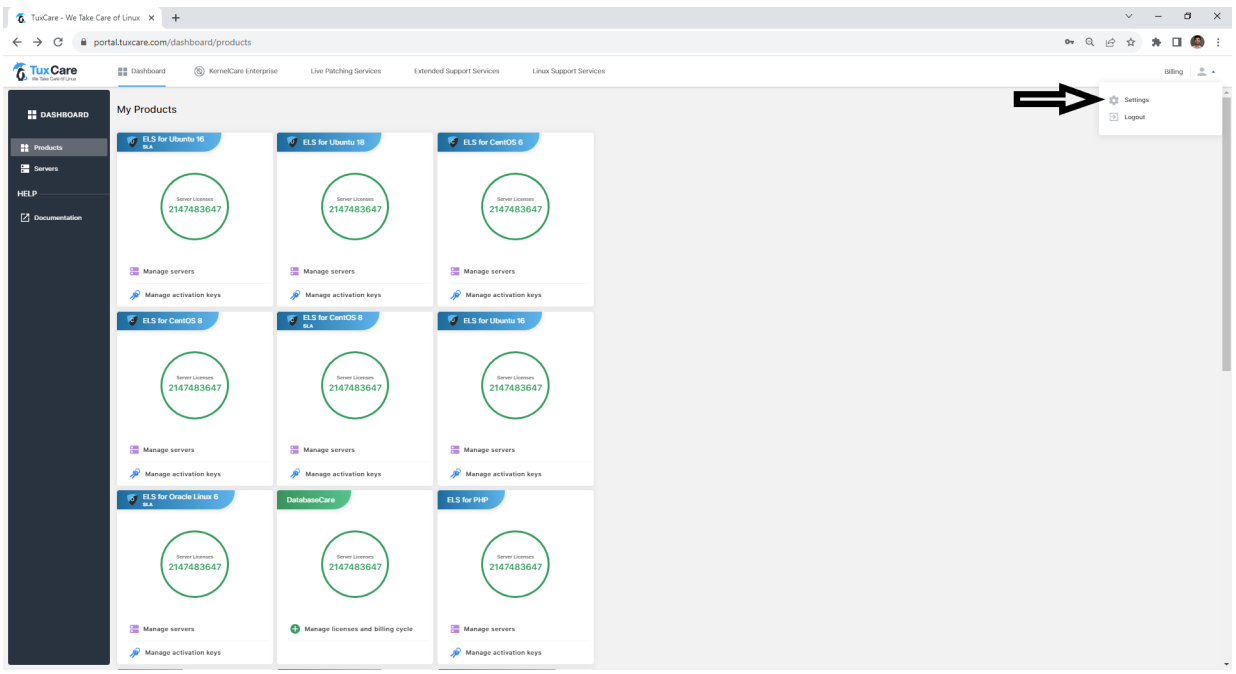
The timestamp is a number of seconds since January 1, 1970 (UTC), or POSIX time. https://www.epochconverter.com/ - to find the current POSIX time

Date/time formatting

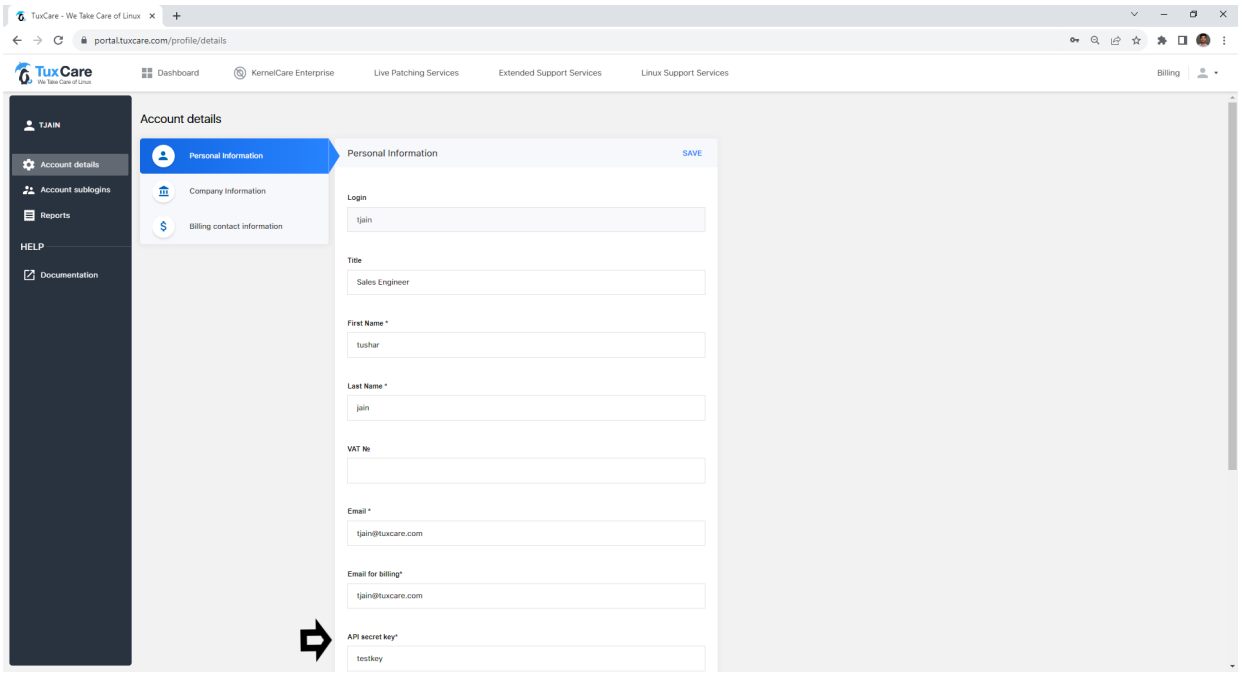
All date/time values returned from API will be formatted as a string in ISO-8601: "yyyy-MM-ddTHH:mmZ" = 04-30T11:26-0400

Secret Key

Step 1 → To generate a secret key, log in to portal.tuxcare.com with your credentials.
Step 2 → Click on Settings Tab:

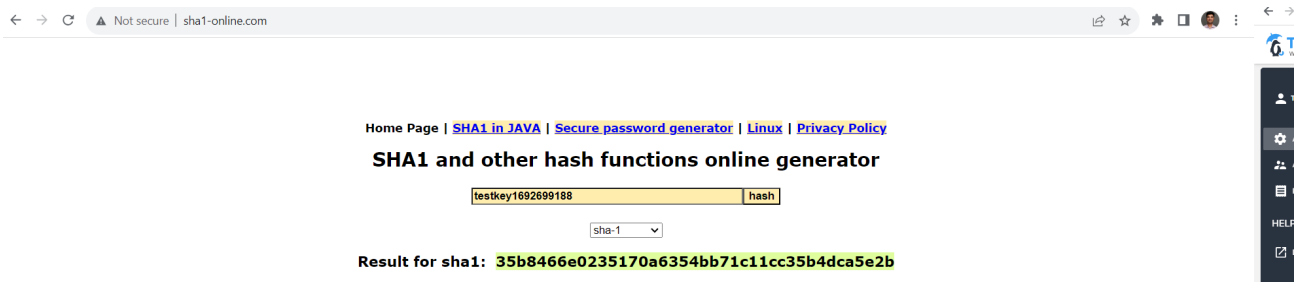


Step 3 → Under Personal Information, inside the API secret key tab, configure a secret key:



sha(secret_key + timestamp)

Use one of the sha online tools http://www.sha1-online.com/ to generate the hash of the combination of (secret key + timestamp).



NOTE: The Authentication Token generated is only valid for 30 minutes. After that, the above process needs to be repeated to generate a new hash with the current POSIX time.

ELS Products API

API root URL: https://portal.tuxcare.com/api/els

API for interactions with Extended Life Support products (CentOS/Ubuntu/Oracle).

ELS product codes

ELS key has **code** to define its product:

- CELS - "CentOS ELS"
- OELS – "Oracle ELS"
- UELS16 – "Ubuntu 16 ELS"
- CELS_8 – "CentOS 8 ELS"
- UELS18 – "Ubuntu 18 ELS"
- PHP_ELS - "PHP ELS"
- PYTHON_ELS - "PYTHON ELS"

Create License Key /key/create.json

URL:
https://portal.tuxcare.com/api/els/key/create.json?token=AUTH_TOKEN&productType=ProductCode&limit=2&note=12

POST arguments:
• **token** - authorization token
• **code** - ELS license code (see description above)
• **note** - key note
• **limit** - key limit (max servers per key) 0 for unlimited key

Update License Key /key/update.json

URL:
https://portal.tuxcare.com/api/els/key/update.json?token=AUTH_TOKEN&key=CELS-key&limit=4&no

PUT arguments:
- **token** - authorization token
- **key** - key to update
- **limit** - key limit (max servers per key) 0 for unlimited key
- **note** - key note

Remove License Key /key/remove.json

URL:
https://portal.tuxcare.com/api/els/key/remove.json?token=AUTH_TOKEN&key=CELS-key

DELETE arguments:

- **token** - authorization token
- **key** - ELS key to remove

List All ELS Keys /key/list.json

URL:
https://portal.tuxcare.com/api/els/key/list.json?token=AUTH_TOKEN&productType=ProductCode

GET arguments:

- **token** - authorization token
- **code** – product code

List all ELS keys owned by the customer.

Success response data (json): Returns list of key objects

List Servers Registered to Key /srv/list.json

URL:
https://portal.tuxcare.com/api/els/srv/list.json?token=AUTH_TOKEN&productType=ProductCode

GET arguments:

- **token** - authorization token
- **productType** – ELS license code (see description above)

List all ELS servers under the specific key.

Success response data (json): Returns a list of server objects or an empty list

Remove Server Registered to Key /srv/remove.json

URL:
https://portal.portal.tuxcare.com/api/els/srv/remove.json?token=AUTH_TOKEN&id=server_id

DELETE arguments:

- **token** - authorization token
- **id** - server id to remove

AlmaLinux API

API root URL: https://portal.tuxcare.com/api/els

API for interactions with AlmaLinux products.

AlmaLinux product codes

AlmaLinux key has a **code** to define its product:

- EXTENDED_SECURITY_UPDATES - “Extended Security Updates”

/key/create.json

URL:
https://portal.tuxcare.com/api/els/key/create.json?token=AUTH_TOKEN&code=ESU&limit=2&note=12

GET arguments:
• **token** - authorization token
• **code** - AlmaLinux license code (see description above)
• **note** - key note
• **limit** - key limit (max servers per key) 0 for unlimited key

Create AlmaLinux key.

Success response data (json): Returns newly generated AlmaLinux key object

/key/update.json

```
{
"key": "ESU-yUDxBd5ethmGO5d3hnAZEau0",
"productCode": "ESU"
"usageLimit": "2"
"description": "123"
}
```

URL:
https://portal.tuxcare.com/api/els/key/update.json?token=AUTH_TOKEN&key=ESU-key&limit=4&no

GET arguments:
- **token** - authorization token
- **key** - key to update
- **limit** - key limit (max servers per key) 0 for unlimited key
- **note** - key note

Update AlmaLinux key properties.

Success response data (json): Returns updated AlmaLinux key object

```
{
"key": "ESU-yUDxBd5ethmGO5d3hnAZEau0",
"productCode": "ESU", "usageLimit":
"4"
"description": "321"
}
```

/key/remove.json

URL:
https://portal.tuxcare.com/api/els/key/remove.json?token=AUTH_TOKEN&key=ESU-key

GET arguments:
- **token** - authorization token
- **key** - AlmaLinux key to remove

Remove AlmaLinux registration key with all servers.

Success response data (json): Returns list of server objects removed with the current key.

```
[
{"key": "ESU-yUDxBd5ethmGO5d3hnAZEau0"}
]
```

/key/list.json

URL: https://portal.tuxcare.com/api/els/key/list.json?token=AUTH_TOKEN&code=ESU

GET arguments:

- **token** - authorization token
- **code** – product code

List all AlmaLinux keys owned by customer.

Success response data (json): Returns a list of key objects.

/srv/list.json

```
[
{"key": "ESU-yUDxBd5ethmGO5d3hnAZEau0", "productCode": "ESU",
"usageLimit": "2", "description": 123}
{"key": "ESU-kdiRMfJ4yhmF7je4ldptndYk", "productCode": "ESU",
"usageLimit": "5",  "description": null}
]
```

URL: https://portal.tuxcare.com/api/els/srv/list.json?token=AUTH_TOKEN&code=ESU

GET arguments:

- token - authorization token
- code – product code

List all AlmaLinux servers under specific key

Success response data (json): Returns list of server objects or an empty list

```
[
{"id": "12345", "key": "ESU-value", "ip": "1.1.1.1", "hostname":
"test"}
{"id": "12346", "key": "ESU-value", "ip": "1.1.1.1", "hostname":
"test2"}
]
```

/srv/remove.json

URL:
https://portal.tuxcare.com/api/els/key/remove.json?token=AUTH_TOKEN&key=ESU-value

GET arguments:

- **token** - authorization token
- **id** - server id to remove

Remove AlmaLinux server by its ID.

Success response data (json): Returns removed server object

```
{"id": "12345", "key": "ESU-value", "ip": "1.1.1.1", "hostname": "test"}
```

IP-based licenses API

API root URL: https://portal.tuxcare.com/api/ipl

You can manage an IP-based license over this API.

IP license product types

To bind an IP license with a particular product you must provide a valid product type:

- 1 - "CloudLinux OS"
- 4 – "CloudLinux Solo"
- 5 - "CloudLinux Admin"
- 1002 – "CloudLinux OS Shared Pro"
- 16 – "KernelCare Enterprise"
- 17 – "KernelCare Enterprise Plus"
- 40 – "ImunifyAV+"
- 41 - "Imunify360 single user"
- 42 - "Imunify360 up to 30 users"
- 43 - "Imunify360 up to 250 users"
- 49 - "Imunify360 unlimited"

/availability.json

URL example:
https://portal.tuxcare.com/api/ipl/availability.json?ip=1.1.1.1&token=AUTH_TOKEN"

Will return information about what kind of license types are available for registration and what types are used by current account.

GET arguments:
- **token** - authorization token
- **ip** - IP address to check

Success response data:

```
{"available": [1,41,42,43,49], "owned":[16]}
```

- **available(int[])** - list of types that can be used to register new IP license
- **owned(int[])** - list of types that already registered(owned) by this account

As you can see if somebody owns a license than that license type will not be in **available** list.

/check.json

URL example:
https://portal.tuxcare.com/api/ipl/check.json?ip=1.1.1.1&token=AUTH_TOKEN"

Check if the IP license is registered by any customer.

GET arguments:
- **token** - authorization token
- **ip** - IP address to check

Success response data (list of integers):

```
[1,16] OR [41] OR []
```

Will return a list of registered license types or empty list if provided IP is not registered yet.

/register.json

URL example:
https://portal.tuxcare.com/api/ipl/register.json?ip=1.1.1.1&type=1&token=AUTH_TOKEN"

Will register IP-based license for an authorized user.

GET arguments:
- **token** - authorization token
- **ip** - IP address to register
- **type** - IP license type (1,16,41,42,43,49)
- **els_allowed** – allow CL6 registration

On success response **returns** information about created or already registered license.

Success response data (json object):

```
{"ip": "1.1.1.1", "type": ,16 "registered": false, "created":
"2014-04-30T11:26-0400"}
```

- **ip(string)**
- **type(int)** - license type (1,16,41,42,43,49)
- **registered(boolean)** - true if the server was registered in CLN with this license (CLN licenses only).
- **created(string)** - license creation time

Will return a non-successful response in any other cases.

/remove.json

URL example:
https://portal.tuxcare.com/ipl/remove.json?ip=1.1.1.1&type=16&token=AUTH_TOKEN"

Will remove an IP-based license from the authorized user licenses.

GET arguments:
- **token** - authorization token
- **ip** - IP address to remove
- **type**(optional) - IP license type. If empty - will remove licenses with all types

Success response data (boolean):
- **true** when IP license was removed
- **false** if IP license was not found OR not owned by user

/list.json

URL example: https://portal.tuxcare.com/api/ipl/list.json?token=AUTH_TOKEN"

Return all IP licenses owned by an authorized user.

GET arguments:
- **token** - authorization token

Success response data (json objects list):

```
[{"ip": "1.1.1.1", "type": ,16 "registered": false, "created":
"2014-04-30T11:26- 0400"}, ...]
```

- **ip(string)**
- **type(int)** - license type (1,16,41,42,43,49)
- **registered(boolean)** - true if the server was registered in CLN with this license (CLN licenses only).
- **created(string)** - license creation time

/server.json

URL example:
https://portal.tuxcare.com/api/ipl/server.json?token=AUTH_TOKEN&ip=1.1.1.1"

Return all IP licenses owned by authorized user filtered by ip.

GET arguments:
- **token** - authorization token
- **ip** - IP address to fetch data

Success response data (json objects list):

[{"server_info":"cloudlinux-release-5 (2.6.18-294.26.1.el5.lve0.8.18)","ip": "1.1.1.1", "type": 1, "registered": false, "created": "2014-04-30T11:26-0400", "last_checkin": "2014-04-30T11:26-0400"}, ...]

- **server_info(string)** - info about os, version and running kernel of server, registered by the IP license available)
- **ip(string)**
- **type(int)** - license type (1,16,41,42,43,49)
- **registered(boolean)** - true if server was registered in CLN with this license (CLN licenses only).
- **created(string)** - license creation time
- **last_checkin(string)** - license last_checkin time

/update.json

URL example:
https://portal.tuxcare.com/api/ipl/update.json?ip=1.1.1.1&type=16&token=AUTH_TOKEN

Update the IP-based license from the authorized user licenses.

GET arguments:
- **token** - authorization token
- **ip** - IP address to fetch data
- **els_allowed** – allow CL6 registration
- **type (optional)** - IP license type. If empty - will remove licenses with all types

Success response data (boolean):
- **true** - when IP license was updated
- **false** - if IP license was not found OR not owned by user

KernelCare API

API root URL: https://portal.tuxcare.com/api/kcare

You can manage KC licenses and keys over this API.

Create License Key /key/create.json

URL: https://portal.tuxcare.com/api/kcare/key/create.json?token=AUTH_TOKEN&limit=2&note=Key+description

Will generate a new KC key for an authorized user.

GET arguments:

- **token** - authorization token
- **limit** - key servers limit (0 for unlimited key)
- **note** (optional) - key description up to 100 characters

Success response data (string): returns newly generated KC key

Delete License Key /key/delete.json

URL:
https://portal.tuxcare.com/api/kcare/key/delete.json?token=AUTH-TOKEN&key=key_to_delete

Will delete KC key owned by the authorized user.

GET arguments:

- **token** - authorization token
- **key** - KC key to delete

Success response data (boolean): returns true if the key was deleted or false if the key was not found.

List License Key /key/list.json

URL: https://portal.tuxcare.com/api/kcare/key/list.json?token=AUTH_TOKEN

Return list of all KC keys registered by an authorized user.

GET arguments:

- **token** - authorization token

Success response data (json objects list):

```
[{
"key": "WsTs821nSAtiastD", // key identifier "enabled": false,
"created": "2014-04-30T11:26-0400", // key creation time "limit": 2,
// key servers max limit 0 for unlimited key "note": "Some custom
keynote"
},// Will return an empty list if a user has no keys
]
```

/key/servers.json

URL:
https://portal.tuxcare.com/api/kcare/key/servers.json?token=AUTH-TOKEN&key=CEGaUovC9Bi8ppH9

Return list of servers registered with key owned by authorized user.

GET arguments:
- **token** - authorization token
- **key** - KC key linked to servers

Add CIDR List to KC Key /key/set_cidr.json

URL:
https://portal.tuxcare.com/api/kcare/key/set_cidr.json?token=AUTH_TOKEN&key=KEY&cidr=cidr+list

Will add a list of CIDRs for the authorized user.

GET arguments:
- **token** - authorization token
- **key** - key associated with CIDR
- **cidr** - allowed IP range in CIDR format. Multiple CIDRs can be separated with spaces, commas and sem

Success response data (json object):

```
{
    "code": 0 // CIDR adding status code
}
```

- code(int):
    - 0 - success (all CIDRs have been added)
    - 1 - irregular IP address in one of CIDRs
    - 2 - irregular prefix in one of CIDRs
    - 3 - internal error

Remove Server Registered too Key /srv/remove.json

URL:
https://portal.tuxcare.com/api/kcare/srv/remove.json?server_id={value}&token={value}

GET arguments:

- **token** - authorization token
- **server_id** - server id to remove

Success response data (json): Server found and deleted

```
{
    "message": null,
    "type": null,
    "success": true,
    "data": {
    "server_id": "",
    "key": ""
    }
}
```

Success response data (json): Server not found

```
{
    "message": "Server not found", "type":
    null,
    "success": true,
    "data": null
}
```

Error response (json): authorization failed

```
{
    "message": "Authorization failed", "type":
    null,
    "success": false, "data":
    null
}
```

KernelCare Nagios API

/nagios/register_key.plain

URL: https://portal.tuxcare.com/api/kcare/nagios/register_key.plain?key=WsTs821nSAtiastD
API to register a custom monitoring key for the IP license. The key will be registered for the remote client IP.

GET arguments:

- **key** - Monitoring key from 16 to 32 alphanumeric characters (small &capital letters)

Success response example:

```
success:true code:0
```

Any nonzero code value means key creation error!

- **code(int):**
  - 0 - success (key created/updated)
  - 1 - wrong key size/for mat
  - 2 - no KC IP license available

Server Error example:

```
success:false
```

/nagios

URL: https://portal.tuxcare.com/api/kcare/nagios/{key_id}
Will check status all servers registered by the key

- **key_id** - Server id to check

Return success response if all servers are up to date.

Success response example:

```
KernelCare OK - all servers are up to date!
```

Error response will be returned if any server is out of date, unsupported or inactive.

/nagios-res

URL: https://portal.tuxcare.com/api/kcare/nagios-res/{login}/{token}
Will check the status of all servers registered to reseller

- **login** - Login of reseller
- **token** - authorization token

Will return success response if all servers are up to date.
Success response example:

```
KernelCare OK - all servers are up to date!
```

Error response will be returned if any server is out of date, unsupported or inactive.

Server Groups for KernelCare API

API root URL: https://portal.tuxcare.com/api/group

API to manage server groups for KernelCare products.

/create.json

METHOD: POST
URL:
https://portal.tuxcare.com/api/group/create.json?token=AUTH_TOKEN&name=NAME&description=DESCRIPTION

Will create a new group for the authorized user.

Query parameters:
- **token** - authorization token
- **name** - group name
- **description** (optional) – group description

Success response data (json): Returns newly generated group

```
{
    "message": null,
    "type": null,
    "success": true,
    "data": {
            "name": "NAME",
            "description": "DESCRIPTION"
    }
}
```

/list.json

METHOD: GET
URL: https://portal.tuxcare.com/api/group/list.json?token=AUTH_TOKEN

Will receive all groups for authorized user.

Query parameter:
- **token** - authorization token

Success response data (json): Returns all groups

```
{
    "message": null,
    "type": null,
    "success": true,
    "data": [
        {
            "name": "NAME",
            "description": "DESCRIPTION"
        }
    ]
}
```


/servers/list.json

METHOD: GET
URL:
https://portal.tuxcare.com/api/group/servers/list.json?token=AUTH_TOKEN&name=NAME

Will return a list of the server objects or an empty list.

Query parameters:
- **token** - authorization token
- **name** - group name

Success response data (json): Returns server objects


```
{
    "message": null,
    "type": null,
    "success": true,
    "data": [
        {
            "id": "SERVER-1",
            "hostName": "10.000.0.000",
            "ip": "10.000.0.000",
            "type": "IMUNIFY"
        }
    ]
}
```


/servers/put.json

METHOD: PUT
URL:
https://portal.tuxcare.com/api/group/servers/put.json?token=AUTH_TOKEN&name=NAME&server_ids=SERVER-1,SERVER-2

Will add servers to a group.

Query parameters:
- **token** - authorization token
- **name** - group name
- **server_ids** – array of server ids

Success response data (json): Returns a list of added servers


```
{
    "message": null,
    "type": null,
    "success": true,
    "data": [
        {
            "id": "SERVER-1",
            "hostName": "10.000.0.000",
            "ip": "10.000.0.000",
            "type": "IMUNIFY"
        },
        {
            "id": "SERVER-1",
            "hostName": "10.000.0.000",
            "ip": "10.000.0.000",
            "type": "IMUNIFY"
        }
    ]
}
```


/servers/remove.json

METHOD: DELETE
URL:
https://portal.portal.tuxcare.com/api/group/servers/remove.json?token=AUTH_TOKEN&name=NAME&server_ids=SERVER-1,SERVER-2

Will remove servers from a group

Query parameters:
- **token** - authorization token
- **name** - group name
- **server_ids** – array of server ids

Success response data (json): Returns a list of removed servers

```
{
    "message": null,
    "type": null,
    "success": true,
    "data": [
        {
            "id": "SERVER-1",
            "hostName": "10.000.0.000",
            "ip": "10.000.0.000",
            "type": "IMUNIFY"
        },
        {
            "id": "SERVER-1",
            "hostName": "10.000.0.000",
            "ip": "10.000.0.000",
            "type": "IMUNIFY"
        }
    ]
}
```