

# Add Virtual Server

## API Essentials

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## Network Interfaces

## POST /virtual\_machines

Create a new VS

### Sections:

- Response Parameters
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- XML Response example

### Request Parameters

*memory\** - amount of RAM assigned to the VS

*cpus\** - number of CPUs assigned to the VS

*cpu\_shares\** - required parameter. For KVM hypervisor the CPU priority value is always 100. For XEN, set a custom value. The default value for XEN is 1

*hostname\** - set the host name for this VS

*label\** - user-friendly VS description

*primary\_disk\_size\** - set the disk space for this VS

*swap\_disk\_size\** - set swap space. There is no swap disk for Windows-based VSs

*type\_of\_format* - type of filesystem - ext4. For Linux templates, you can choose ext4 file system instead of the ext3 default one

*primary\_disk\_type* - set the storage type "HDD" or "SSD" for the primary disk

*swap\_disk\_type* - set the storage type "HDD" or "SSD" for the swap disk

*primary\_network\_id* - the ID of the primary network. Optional parameter that can be used only if it is assigned to the network zone

*primary\_network\_group\_id* - the ID of the primary network group. Optional parameter

*required\_automatic\_backup* - set 1 if you need automatic backups

*rate\_limit* - set max port speed. Optional parameter: if none set, the system sets port speed to unlimited

*required\_virtual\_machine\_build\** - set 1 to build VS automatically

*required\_virtual\_machine\_startup* - set 1 to start up the VS automatically, otherwise set 0 (default state is "1")

*required\_ip\_address\_assignment\** - set "1" if you want IP address to be assigned automatically after creation. Otherwise set "0"

*admin\_note* - enter a brief comment for the VS. Optional parameter

*note* - a brief comment a user can add to a VS

*template\_id\** - the ID of a template from which a VS should be built, alternatively *template\_label* can be used to declare a template.

*template\_label\** - the label of a template from which a VS should be built, can be used instead of *template\_id*

*hypervisor\_group\_id* - the ID of the hypervisor zone in which the VS will be created. Optional: if no hypervisor zone is set, the VS will be built in any available hypervisor zone

*hypervisor\_id* - the ID of a hypervisor where the VS will be built. Optional: if no hypervisor ID is specified, the VS will be built on the hypervisor with the least available RAM (but sufficient RAM for the VS)

- Get VS Network Interfaces
- Rebuild VS Network

## Recipes

- Add Recipe
- Add Recipe Step
- Assign Recipe to Virtual Server
- Delete Recipe
- Delete Recipe Step
- Edit Recipe
- Edit Recipe Step
- Get All Recipes
- Get Recipe Steps
- Get Virtual Server Recipes
- Remove recipe from Virtual Server
- Run Recipe on Multiple Virtual Servers
- Swap Recipe Step Number

## SSH Keys

- Add SSH Key
- Delete SSH Key
- Edit SSH Key
- Get SSH Keys
- Set SSH Keys on VS

## Templates

- Get Templates

## Test Route

## Troubleshooting API Issues

## Viewing Activity Logs

## Virtual Server Operating Systems

### Virtual Servers

- Add Virtual Server
- Billing Statistics
- Build Virtual Server
- Delete Virtual Server
- Edit Virtual Server
- Get CPU Usage Statistics
- Get List of Virtual Machines
  - Get specific VM Details
  - Search Virtual Servers by label
- Get statuses for All VMs
  - Get Specific VS Status
- Reboot Virtual Server
- Reset VS Password
- Shutdown Virtual Server
- Startup a Virtual Server
- Stop Virtual Server

*initial\_root\_password* - the root password for a VS. Optional, if none specified, the system will provide a random password. It can consist of 6-32 characters, letters [A-Za-z], digits [0-9], dash [-] and lower dash [\_]. You can use both lower- and uppercase letters

NOTE: It is not possible to set VS password when creating a Windows-based VMware virtual server without running a sysprep.

*custom\_variables* - an array of custom variables with the following details:

- *enabled* - true, if the variable is enabled, otherwise false
- *id* - variable ID
- *name* - variable name
- *value* - variable value script

## Response Parameters

*add\_to\_marketplace* – true, if the edge server is added to marketplace. The default value is "false". This parameter is for CDN servers only.

*admin\_note* - administrator comment for the VS

*allowed\_resize\_without\_reboot* – true if resize without reboot is allowed, otherwise false

*allowed\_hot\_migrate* – true if hot migration is allowed, otherwise false

*allowed\_swap* – true if swap is allowed, otherwise false

*booted* - true, if the VS is booted, otherwise false

*built* - true, if the VS is built, otherwise false

*cpu\_shares* - the percentage of allocated CPU priority resource

*cpus* - number of CPUs assigned to the VS

*created\_at* – the date when the VS was created in the [YYYY][MM][DD]T[hh][mm][ss] format

*updated\_at* – the date when the VS was updated in the [YYYY][MM][DD]T[hh][mm][ss] format

*customer\_network\_id* - ID of the customer network

*edge\_server\_type* - type of the CDN edge server. This parameter is for CDN servers only.

*enable\_autoscale* — true if autoscaling is allowed for this VS

*enable\_monitis* - deprecated attribute

*firewall\_notrack* - parameter for adding firewall rules. It true for edge servers only.

*hostname* - VS hostname

*hypervisor\_id* – the ID of the hypervisor, on which the server is deployed

*id* – the VS ID

*identifier* – the VS identifier

*initial\_root\_password* — the VS root password

*initial\_root\_password\_encrypted* - true, if the root password is encrypted, otherwise false

*label* - user-friendly VS description

*local\_remote\_access\_ip\_address* - IP address for remote connection

*local\_remote\_access\_port* - port for remote connection

*locked* - true if the VS is locked; otherwise false

*memory* - the RAM size allocated to this VS

*min\_disk\_size* — the minimum disk size required to build a VS from a specified template

*operating\_system* — operating system used by the VS

## VS Disks

- Add New Disk
- Delete Disk
- Edit Disk
- Get VS Disks

*operating\_system\_distro* — the distribution of the OS from which this VS is built

*recovery\_mode* - true if recovery mode allowed, otherwise false

*remote\_access\_password* — the password for the remote access

*service\_password* - password of a service user

*storage\_server\_type* -

*strict\_virtual\_machine\_id* - the ID of a virtual machine that will never reside on the same HV with this VS

*suspended* - true if VS is suspended, otherwise false

*template\_id* - the ID of the template the VS is based on

*template\_label* - the name of the template from which this VS is built

*user\_id* — the ID of a user assigned to this VS

*vip* — true if the VS has VIP status (gives migration priority)

*xen\_id* — the VS ID set by the virtualization engine

*ip\_addresses* - an array of IP addresses with the following parameters:

- *address* - IP address
- *broadcast* - broadcast address
- *created\_at* - the date when the IP address was created in the [YYYY][MM][DD]T[hh][mm][ss]Z format
- *disallowed\_primary* - true if not allowed to be used as primary (for VS build), otherwise false
- *gateway* - gateway address
- *id* - the ID of the IP address
- *ip\_address\_pool\_id* - ID of the IP address pool to the IP address belongs to
- *network\_address* - the address of the network
- *network\_id* - the ID of the network
- *updated\_at* - the date when the IP address was updated in the [YYYY][MM][DD]T[hh][mm][ss]Z format
- *user\_id* - the ID of a user associated with this IP address
- *free* - true if free, otherwise false
- *netmask* - netmask for the IP address

*monthly\_bandwidth\_used* - VS monthly bandwidth in KB

*total\_disk\_size* - total VS disk size

## JSON Request example

```
curl -i -X POST -H 'Accept: application/json'
-H 'Content-type: application/json' -u
user:userpass -d '{
  "virtual_machine": {
    "template_id": "10",
    "label": "lazar",
    "hostname": "lazar",
    "initial_root_password": "tyrh",
    "memory": "2000",
    "cpus": "1",
    "cpu_shares": "1",
    "primary_disk_size": "25",
    "primary_disk_type": "ssd",
    "swap_disk_type": "hdd",
    "swap_disk_size": "5",
    "required_ip_address_assignment": "1",
    "required_automatic_backup": "1",
    "required_virtual_machine_build": "1"
  }
}' --url <api_url>/virtual_machines.json
```

## JSON Response

```
{
  "virtual_machine": {
    "add_to_marketplace": null,
    "admin_note": null,
    "allowed_hot_migrate": true,
    "allowed_swap": true,
    "booted": false,
    "built": false,
    "cores_per_socket": 0,
    "cpu_shares": 1,
    "cpu_sockets": null,
    "cpu_threads": null,
    "cpu_units": 10,
    "cpus": 1,
    "created_at":
"2015-08-25T01:19:49+00:00",
    "customer_network_id": null,
    "deleted_at": null,
    "edge_server_type": null,
    "enable_autoscale": null,
    "enable_monitis": null,
    "firewall_notrack": false,
    "hostname": "myHost",
    "hypervisor_id": 7,
    "id": 123,
    "identifier": "v0qm2yndtmegyx",
```

```
        "initial_root_password_encrypted":
false,
        "iso_id": null,
        "label": "zaza",
        "local_remote_access_ip_address":
"192.168.0.1",
        "local_remote_access_port": null,
        "locked": true,
        "memory": 528,
        "min_disk_size": 5,
        "note": null,
        "operating_system": "linux",
        "operating_system_distro": "lbva",
        "preferred_hvs": [
            6,
            8,
            3,
            9,
            4,
            11,
            7,
            12,
            10,
            2,
            5
        ],
        "recovery_mode": null,
        "remote_access_password": "password",
        "service_password": null,
        "state": "building",
        "storage_server_type": null,
        "strict_virtual_machine_id": null,
        "suspended": false,
        "template_id": 10,
        "template_label": "Load Balancer
Virtual Appliance",
        "updated_at":
"2015-08-25T01:19:49+00:00",
        "user_id": 123,
        "vip": null,
        "xen_id": null,
        "ip_addresses": [
            {
                "ip_address": {
                    "address": "192.168.0.1",
                    "broadcast": "192.168.0.1",
                    "created_at":
"2015-07-30T01:35:55+00:00",
                    "customer_network_id":
null,
                    "disallowed_primary":
false,
                    "gateway": "192.168.0.1",
```

```
        "hypervisor_id": null,
        "id": 1234,
        "ip_address_pool_id": null,
        "network_address":
"192.168.0.1",
        "network_id": 1,
        "pxe": false,
        "updated_at":
"2015-08-25T01:19:49+00:00",
        "user_id": null,
        "free": false,
        "netmask": "255.255.252.0"
    }
}
],
"monthly_bandwidth_used": "0",
"total_disk_size": 11,
"price_per_hour": 0.01108394,
"price_per_hour_powered_off":
0.00305558,
"support_incremental_backups": true,
```

```
        "cpu_priority": 1
    }
}
```

### XML Request example

```
curl -i -X POST -H 'Accept: application/xml'
-H 'Content-type: application/xml' -u
user:userpass -d
'<virtual_machine><template_id>24</template_id>
<label>Winders</label><hostname>zaza</hostname>
<initial_root_password>ehgebhewvtwh</initial_ro
ot_password><memory>2028</memory><cpus>1</cpus>
<cpu_shares>1</cpu_shares><primary_disk_type>SS
D</primary_disk_type>
<primary_disk_size>30</primary_disk_size><requi
red_ip_address_assignment>1</required_ip_addres
s_assignment><required_automatic_backup>0</requ
ired_automatic_backup><required_virtual_machine
_build>1</required_virtual_machine_build></virt
ual_machine>' --url
<api_url>/virtual_machines.xml
```

### XML Response example

```
<?xml version="1.0" encoding="UTF-8"?>
<virtual_machine>
  <add_to_marketplace nil="true"/>
  <admin_note nil="true"/>
  <allow_resize_without_reboot
type="boolean">false</allow_resize_without_rebo
ot>
  <allowed_hot_migrate
type="boolean">true</allowed_hot_migrate>
  <allowed_swap
type="boolean">true</allowed_swap>
  <booted type="boolean">false</booted>
  <built type="boolean">false</built>
  <cpu_shares type="integer">1</cpu_shares>
  <cpus type="integer">1</cpus>
  <created_at
type="datetime">2013-06-11T16:03:58+03:00</crea
ted_at>
  <customer_network_id nil="true"/>
  <deleted_at nil="true"/>
  <edge_server_type nil="true"/>
  <enable_autoscale
type="boolean">false</enable_autoscale>
```

```
<enable_monitis
type="boolean">false</enable_monitis>
  <firewall_notrack
type="boolean">false</firewall_notrack>
  <hostname>zaza</hostname>
  <hypervisor_id
type="integer">1</hypervisor_id>
  <id type="integer">15</id>
  <identifier>l2lnf62bs44bjf</identifier>
  <initial_root_password>ehgebhewvtwh</initial_ro
ot_password>
  <initial_root_password_encrypted
type="boolean">false</initial_root_password_enc
rypted>
  <label>zaza</label>
  <local_remote_access_ip_address>109.123.91.35</
local_remote_access_ip_address>
  <local_remote_access_port nil="true"/>
  <locked type="boolean">>true</locked>
  <memory type="integer">128</memory>
  <min_disk_size
type="integer">5</min_disk_size>
  <note nil="true"/>
  <operating_system>linux</operating_system>
  <operating_system_distro>ubuntu</operating_syst
em_distro>
  <preferred_hvs type="array"/>
  <recovery_mode nil="true"/>
  <remote_access_password>x9yk3fIMXZBG</remote_ac
cess_password>
  <service_password nil="true"/>
  <state>new</state>
  <storage_server_type nil="true"/>
  <strict_virtual_machine_id nil="true"/>
  <suspended type="boolean">false</suspended>
  <template_id type="integer">8</template_id>
  <template_label>Ubuntu 13.04
x64</template_label>
  <updated_at
type="datetime">2013-06-11T16:03:59+03:00</upda
ted_at>
  <user_id type="integer">1</user_id>
  <vip nil="true"/>
  <xen_id nil="true"/>
  <ip_addresses type="array">
    <ip_address>
      <address>109.123.91.171</address>
      <broadcast>109.123.91.191</broadcast>
      <created_at
type="datetime">2013-06-11T14:16:21+03:00</crea
ted_at>
      <customer_network_id nil="true"/>
      <disallowed_primary
```



```
type="boolean">>false</disallowed_primary>
  <gateway>109.123.91.129</gateway>
  <hypervisor_id nil="true"/>
  <id type="integer">386</id>
  <ip_address_pool_id nil="true"/>

<network_address>109.123.91.128</network_addresses>
  <network_id type="integer">9</network_id>
  <pxe type="boolean">>false</pxe>
  <updated_at
type="datetime">2013-06-11T14:16:21+03:00</updated_at>
  <user_id nil="true"/>
  <free type="boolean">>false</free>
  <netmask>255.255.255.192</netmask>
</ip_address>
</ip_addresses>

<monthly_bandwidth_used>0</monthly_bandwidth_used>
```

```
<total_disk_size  
type="integer">6</total_disk_size>  
</virtual_machine>
```