

Creating and Managing a VPS

Creating a VPS

Members are allowed to create VPSs in the [playground](#) and the production environment provided that they have **enough resources** and their [environment settings](#) allow it. You can gain resources by lowering the parameters of existing VPSs or paying extra for more resources.

Creating a new VPS consists of three steps:

1. choosing an environment
2. choosing a location
3. choosing a hostname, distro and parameters

Create a VPS: Specify parameters (3/3)

Environment:	Production
Location:	Praha
Hostname:	testovaci <small>246 chars remaining: A-z, a-z</small>
OS template:	Debian 8
Memory:	1024 MB
CPU:	1 cores
Disk space:	10000 MB
IPv4 address:	1 addresses
IPv6 address:	1 addresses
	<input type="button" value="Create"/>

So far, creating several production VPSs is only allowed for those users who request it and want to test this function.

IP Addresses

Each member gets 1 public IPv4 address and 32 IPv6 addresses in each environment. These addresses can be distributed between various VPSs as you please. Additional IPv4 addresses are available for a [fee](#), IPv6 addresses are given upon request.

You can find more information about the management and various types of IP addresses [here](#).

Root Password

When setting the root password, you can choose between two types of generated passwords. A simple password is easier to write down, but keeping it active for an extended period of time is not a good idea.

Set root's password (in the VPS, not in the vpsAdmin)

Username:	root
Password:	will be generated
	Warning The password is randomly generated. This password changer is here only to enable the first access to SSH. You can change it with <code>passwd</code> command once you've logged onto SSH.
Secure password:	<input checked="" type="radio"/> 20 characters long, consists of: a-z, A-Z, 0-9
Simple password:	<input type="radio"/> 8 characters long, consists of: a-z, 2-9
<input type="button" value="Go >>"/>	

Choosing a Distro

The distro reinstall form now makes it possible to just update the information about the distro which is used in a VPS. An example case of when you can use this is when you update your system to a newer version and the distro displayed in vpsAdmin doesn't correspond to reality.

Distribution

Distribution:	Debian 8
Update information:	<input checked="" type="radio"/> Use if you have upgraded your system
Reinstall:	<input type="radio"/> Install base system again
<input type="button" value="Go >>"/>	

Reinstalling the system **deletes all VPS subdatasets**. More about datasets.

VPS Parameters

It is possible to change VPS parameters in the VPS details. The minimal configuration of a VPS is 1 CPU, 1 GB of RAM and 10 GB of disk space. The maximal configuration is 8 CPUs, 16 GB Of RAM, unlimited disk space.

Resources

Memory	<input type="text" value="4096"/> MiB
CPU	<input type="text" value="8"/> cores
Swap	<input type="text" value="0"/> MiB
<input type="button" value="Go >>"/>	

Although "swap" is displayed among the parameters, we typically don't assign it since swap behaves like a memory extension in OpenVZ.

If you want to create a new VPS, you need to make space for it - decrease the parameters of a different VPS.

Hostname

The VPS hostname can be changed directly in vpsAdmin and each time the VPS starts, the chosen option in /etc/hosts will be automatically rewritten. The hostname can also be managed manually, outside of vpsAdmin. You can choose which solution you prefer in the VPS details.

Hostname

<input checked="" type="radio"/> Manage hostname by vpsAdmin:	<input type="text" value="mail.vpsfree.cz"/>
<input type="radio"/> Manage hostname manually	
<input type="button" value="Go >>"/>	

Features

Features can be turned on/off individually. When any change is made, the VPS restarts.

Features

Bridge	<input type="checkbox"/>
FUSE	<input type="checkbox"/>
iptables	<input type="checkbox"/>
NFS	<input type="checkbox"/>
PPP	<input type="checkbox"/>
TUN/TAP	<input type="checkbox"/>
VPS is restarted when features are changed.	
<input type="button" value="Go >>"/>	

We recommend only setting the features that your really need. Some functions tend to run into conflicts with each other, for example turning on NFS blocks online migration.

Migrating a VPS Between Nodes

Most frequently, VPSs are migrated between the playground and the production environment. It is only possible to swap VPSs that are located in different locations (Prague, Playground, Brno). Within one location, all you need to do is swap IP addresses.

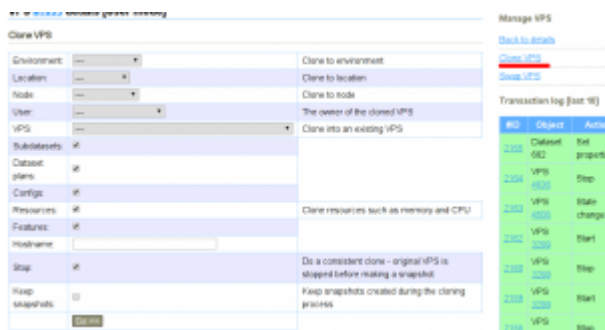
The screenshot shows the 'VPS #1001 details (User mode)' interface. On the left, there are sections for 'Swap VPS', 'Resources', 'Config', and 'Hostname', each with a dropdown menu and a description of the action. On the right, there is a 'Manage VPS' section with a table showing the state of the VPS before and after migration. The table has columns for 'VPS', 'Status', and 'Action'.

VPS	Status	Action
1001	Start	100%

Before performing the action, the table displays the state of the VPS before and after the migration.

Cloning VPSs

You can either clone to a new or to an existing VPS. If you're cloning to an existing VPS, the original VPS and all its subdatasets are **removed**!



In the form, choose the environment, locations or VPS to which you want to clone the VPS that is currently open. Based on this choice, either a new VPS will be created or an existing one will be **overwritten**. So make sure to be careful with what you are doing.

Setting the Time for Planned VPS Outages

The appropriate time for planned VPS outages can be set differently for every day of the week.

Outage windows

	Day	From	To
<input checked="" type="radio"/>	Same outage window every day	01:00	05:00
<input type="radio"/>	Configure outage windows per day		
<input checked="" type="checkbox"/>	Sun	01:00	05:00
<input checked="" type="checkbox"/>	Mon	01:00	05:00
<input checked="" type="checkbox"/>	Tue	01:00	05:00
<input checked="" type="checkbox"/>	Wed	01:00	05:00
<input checked="" type="checkbox"/>	Thu	01:00	05:00
<input checked="" type="checkbox"/>	Fri	01:00	05:00
<input checked="" type="checkbox"/>	Sat	01:00	05:00
	<input type="button" value="Go >>"/>		

During this time period, short VPS outages can occur if it's absolutely necessary. This is mostly used when migrating VPSs between nodes. We always inform about planned outages and migrations either in the outage list or to the email that you have provided in vpsAdmin.

Maintenance Mode

If we want to turn on maintenance mode, we can do so for the whole cluster, individual environments, locations, nodes or VPS. The reason is stated in the title of the maintenance mode icon.

From:

<https://kb.vpsfree.org/> - **Knowledge Base**

Permanent link:

<https://kb.vpsfree.org/manuals/vps/management?rev=1481486032>

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