

# NixOS

NixOS allows declarative configuration management of the whole system and deployed services.

To start using NixOS on vpsFree.cz, make sure you're on a node with [vpsAdminOS](#), you can recognize it e.g. by the kernel version:

```
# uname -rv
5.9.2 #1-vpsAdminOS SMP Fri Oct 30 12:31:53 UTC 2020
```

If you have set your public SSH keys in vpsAdmin the key will be automatically deployed and you can login as root right away. To be able to login with a password you need to set the password manually after your container is created.

## Initial setup & informations

After installing NixOS (mainly talking about stable release) you **have to know**, that there is activated firewall by default blocking everything except ssh (port no. 22) so if you want to run some webserver (for example nginx) you have to tell firewall to not block your ports with this in your `/etc/nixos/configuration.nix:nixos`

```
networking.firewall.allowedTCPPorts = [ 80 443 ];
```

Then don't forget to do

```
nixos-rebuild switch
```

so your changes will take effect (without rebooting)

## Configuration

Configuration is available at

```
/etc/nixos/configuration.nix
```

This can be altered to change container configuration on the fly or for next reboot. Try changing container hostname and running

```
nixos-rebuild switch
```

to build new configuration and directly switch to it. To switch to new configuration after reboot (set as a default boot profile) use

```
nixos-rebuild boot
```

If you are using channels you can update your system by running

```
nixos-rebuild switch --upgrade
```

## Package installation

Packages can be installed system wide via configuration.nix or for local profile via

```
nix-env
```

To install vim use

```
nix-env -iA nixos.vim
```

To search for a package use

```
nix-env -qaP postgre
```

## Manual

Consult NixOS manual for more <https://nixos.org/nixos/manual/>

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