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# VASE-CLI — Command Line Interface for Managing the SSG Platform

## Purpose

VASE-CLI is a command shell for managing VAS Experts products and associated third-party products. The shell consists of the modules main, fdpi, bird, kea, frad. More details can be found in the section [Modules](#).

## Installation and Update

Method 1. Run the script:

```
source <(curl https://vasexperts.ru/install/vase-cli-rpm_install.sh)
```

Method 2. Add the VASE repositories and execute:

```
yum install vase-cli
```

Updates are performed in the same ways as installation.

## Settings

### User and Group Management

To create and manage users, VASE-CLI must be run under the root user using the command `vase-cli`.

By default, the following user groups are created:

- `vase-cli-w` — group with write permissions (users can edit files).
- `vase-cli-r` — group with read-only permissions (users can only view files in the system).
- `tacacs0..tacacs15` — groups with write permissions for connecting authorization and accounting in TACACS+. **These groups are used if TACACS+ is enabled — [more details](#).**

### Creating a User with Write Permissions

```
adduser <username>  
usermod -aG vase-cli-w <username>  
usermod -s /usr/bin/vase-cli-shell <username>
```

## Creating a User with Read Permissions

```
adduser <username>
usermod -aG vase-cli-r <username>
usermod -s /usr/bin/vase-cli-shell <username>
```

## VASE-CLI Configuration

All settings are available in the file `/etc/vase-cli/.env`

Possible options are available in the file `/etc/vase-cli/sample.env`

There are also user settings available within VASE-CLI in the main module, managed through the `config` command. For a hint, type `help`.

## TACACS+ Configuration

VASE-CLI has integration with the TACACS+ authorization server. If desired, you can connect authorization and accounting through TACACS+ in `/etc/vase-cli/.env`.

An example can be seen in `/etc/vase-cli/sample.env`.

An example of TACACS server configuration is found in `/etc/vase-cli/tacacs_server.sample.conf`.



For full support of TACACS+ (authorization of non-local users), it is recommended to install the package `bngtacplus`:

```
dnf install bngtacplus
```

## Modules

### main

The main module of VASE-CLI, included by default. This module provides management of the main capabilities of VASE-CLI (viewing configuration and log files, shell version).

Switch to the module — `use main`

Open the module help — `help`

### fdpi

Configuration setup for `fastdpi` and `fastpcrf`. In this module, you can transparently perform actions with `fdpi_ctrl` and `fdpi_cli`, work with files, manage services, subscribers, and policing, VAS Experts products: BRAS, DPI, NAT, DHCP.

Switch to the module — use `fdpi`

Open the module help — `help`

Submodules:

- file system module
- fdpi module
- fastdpi management
- subscribers management
- policing management
- services management
- BRAS - subscribers management
- BRAS - DHCP/DHCP6 management
- BRAS - PCRF management
- BRAS - PPPoE management
- VLAN translation management
- DPI utils
- DPI nat
- DSCP prioritization

## **bird**

Configuration setup and action requests in bird and bird netns.

Switch to the module — use `bird`

Open the module help — `help`

Submodules:

- module config
- module config reload and restart
- bird configure commands
- bird commands
- bird netns commands
- module logs

## **kea**

Configuration setup and action requests in kea4 and kea6.

Switch to the module — use `kea`

Open the module help — `help`

Submodules:

- IPv4 dhcp-leases control
- IPv6 dhcp-leases control
- module config
- module config reload and restart
- module logs

## **frad**

Management of freeRadius — viewing and editing the freeradius configuration.

Switch to the module — use `frad`

Open the module help — `help`