

# Spremanje virtualnih poslužitelja

Nakon što ste [pokrenuli virtualni poslužitelj](#) i instalirali vaše aplikacije, možete spremiti taj poslužitelj kao novu sliku ili snapshot. Spremljeni virtualni poslužitelj možete ponovno pokrenuti te na taj način klonirati početni.

## Spremanje Snapshota virtualnog poslužitelja

Za spremanje nije potrebno ugasiti virtualni poslužitelj već je dovoljno odabrati **Create Snapshot** za odgovarajući poslužitelj.

Filter

Launch Instance

Delete Instances

More Actions

Status	Availability Zone	Task	Power State	Age	Actions
Active	nova	None	Running	2 weeks, 3 days	Create Snapshot
Active	nova	None	Running	1 month	Create Snapshot
Active	nova	None	Running	1 month, 2 weeks	Create Snapshot

Za [pokretanje novog poslužitelja](#) odaberite **Source** → **Select Boot Source: Snapshot** i odaberite vaš Snapshot.

## Spremanje slike virtualnog poslužitelja

Za spremanje slike, virtualni poslužitelje mora biti pokrenuti s diskovnim prostorom (opcijom da ne izbriše disk nakon brisanja poslužitelja). U ovom slučaju virtualni poslužitelj se mora izbrisati da se Volume otkači od poslužitelja.

**Važno**

Spremljena slika virtualnog poslužitelja može se pokrenuti s istim ili većim diskovnim prostorom ali ne i manjim.

## Upravljačka ploča - Horizon (GUI)

Postupak spremanja slike:

Provjerite postoji li disk spojen na vaš poslužitelj s opcijom **Bootable**. **Volumes→Volumes**

openstack

admin

Project

API Access

Compute

Volumes

Volumes

Snapshots

Groups

Group Snapshots

Network

Orchestration

Data Processing

Admin

Identity

Project / Volumes / Volumes

Volumes

Filter

Create Volume

Accept Transfer

Displaying 3 items

Name	Description	Size	Status	Group	Type	Attached To	Availability Zone	Bootable	Encrypted
90a8618a-cd97-4d62-b6a8-9e2b358b2b5a	-	100 GiB	In-use	-	-	/dev/vda on <u>Openstack-izrada slike</u>	nova	Yes	No
20e8ca1e-d635-4196-b7ac-70f2d685b810	-	100 GiB	In-use	-	-	/dev/vda on openstack-test	nova	Yes	No
c9e8d32c-f72e-4a1e-9631-c5b0d2e6ff84	-	250 GiB	In-use	-	-	/dev/vda on centos-image-test	nova	Yes	No

Displaying 3 items

Ako je vaš Volume zakačen na virtualni poslužitelj **Bootable:Yes** (vidi sliku) nastavi dalje.

Uklonite virtualni poslužitelj **Compute->Instances->Delete Instance**

Project / Compute / Instances

Instances

Displaying 3 Items

Instance Name	Image Name	IP Address	Flavor	Key Pair	Status	Availability Zone	Task	Power State	Age	Actions	
Openstack-izrada-slike	centos-7	10.5.113.20	m1.small	mykey	Active	us-east-1	nova	None	Running	17 minutes	Create Snapshot
openstack-test	centos-7-ictp	10.5.113.191	m1.small	mykey	Shutoff	us-east-1	nova	None	Shut Down	1 hour, 5 minutes	Associate Floating IP Attach Interface Detach Interface Edit Instance Attach Volume Detach Volume Update Metadata Edit Security Groups Edit Port Security Groups Console View Log Resume Instance Pause Instance Suspend Instance Shelve Instance Resize Instance Lock Instance Soft Reboot Instance Hard Reboot Instance Shut Off Instance Rebuild Instance Delete Instance
centos-image-test	centos-7	10.5.112.100	m1.small	mykey	Active	us-east-1	nova	None	Running	1 week	

Uvezite novu sliku s diska: **Volumes->Volumes->Upload to Image**

Project / Volumes / Volumes

Volumes

Displaying 3 Items

Name	Description	Size	Status	Group	Type	Attached To	Availability Zone	Bootable	Encrypted	Actions
90a8618a-cdd7-4d62-b6a8-0e2b358b2b5a	-	100GiB	In-use	-	-	/dev/vda on Openstack-izrada-slike	nova	Yes	No	
20e8ca1e-d535-4196-b7ac-70f2d685b810	-	100GiB	In-use	-	-	/dev/vda on openstack-test	nova	Yes	No	
c9e8d32c-f72e-4a1e-9631-c5b042e6f8b4	-	250GiB	In-use	-	-	/dev/vda on centos-image-test	nova	Yes	No	Mar Cre Cha Upl Upd

Upišite ime nove slike i odaberite QCOW2 - QEMU Emulator, pritisnite Upload.

Upload Volume to Image

Volume Name \*

90a8618a-cdd7-4d62-b6a8-0e2b358b2b5a

Image Name \*

imeNoveSlike

Disk Format

QCOW2 - QEMU Emulator

☐ Force

Description:

Upload the volume to the Image Service as an image. This is equivalent to the `cinder upload-to-image` command.

Choose "Disk Format" for the image. The volume images are created with the QEMU disk image utility.

When the volume status is "in-use", you can use "Force" to upload the volume to an image.

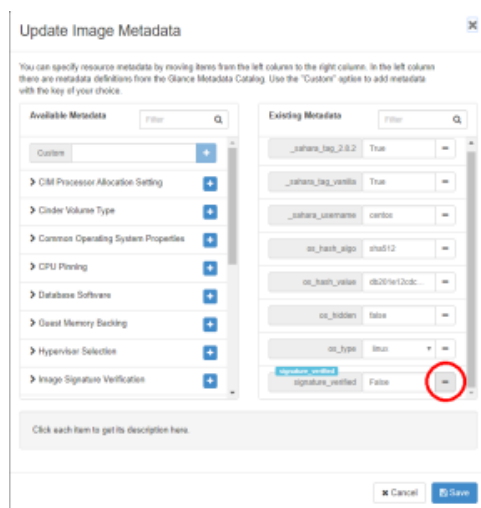
Cancel

Upload

Izбришите meta podatak "signature\_verified" : **Compute->Images→Update Metadata.**



Uklonite "signature\_verified" klikom na oznaku "x" i spremite.



Vaša slika je spremljena, za **pokretanje** novog poslužitelja odaberite novu sliku.

Nakon toga možete izbrisati disk: **Volumes->Volumes→Delete Volumes**

## Openstack Client (CLI)

Sve to možete napraviti i preko Openstack klienta preko komandne linije.

**Postavite** Openstack client

Pokrenite novi virtualni poslužitelj s opcijom "--boot-from-volume", ime poslužitelja u primjeru je "centos-newImage", 15 je veličina diska u GB.

```
openstack server create --image centos-7 --flavor m1.small --key-name mykey --network cro-ngi-private --boot-from-volume 15 centos-newImage
```

Izlistajte i kopirajte ID diska virtualnog poslužitelja (potrebno za korak 6 - IDVolume)

```
openstack volume list
```

[Prilagodite/instalirajte](#) aplikacije na vaš poslužitelj.

Izbrišite poslužitelj

```
openstack server delete centos-newImage
```

Uvezite novu sliku s diska

```
openstack image create --disk-format qcow2 --volume IDVolume newImageName
```

Izbrišite meta podatak "**signature\_verified**" sa slike

```
openstack image unset --property signature_verified newImageName
```

Provjerite popis slika

```
openstack image list
```