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.

	Filt	ter 🗘 Laur	nch Insta	ince	Delete Instar	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.

<u> (</u>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:

🗖 openstack.	📼 admir	• •										
Project	✓ Access	Project / Volumes / Volumes										
Compute	>	Volumes										
Volumes	✓ ∕olumes								Filter	Q	+ Create Volume	≓ Accept Transfer
Sna	apshots	Displaying 3 items										
	Groups	Name	Description	Size	Status	Group	Туре	Attached To		Availability Zone	Bootable	Encrypted
Group Sna	apshots	90a8618a-cdd7-4d62-b6a8-0e2b358b2b5a	-	100GiB	In-use		-	/dev/vda on Openstack-izrada-slike		nova	Yes	No
Network	>	20e8ca1e-d635-4196-b7ac-70f2d685b810	-	100GiB	In-use	-	-	/dev/vda on openstack-test		nova	Yes	No
Orchestration	>	c9e8d32c-f72e-4a1e-9631-c5b0d2e6ff84	÷	250GiB	In-use	-	-	/dev/vda on centos-image-test		nova	Yes	No
Admin	>	Displaying 3 items										
Identity.												

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

Uklonite virtualni poslužitelj Compute->Instances->Delete Instance

Project	¥	Project / Compute / Instances											
Al	Pl Access	Instances											
Compute	~	matanoca											
	Overview												
	instances							Inst	ance ID = -		Filter	Launch Instance Dele	te Instances More Actio
	Images	Displaying 3 items											
	Key Pairs	Instance Name	Image Name	IP Address	Flavor	Key Pair	Status		Availability Zone	Task	Power State	Age	Actions
Serve	er Groups	Openstack-izrada-slike	centos-7	10.5.113.20	m1.small	mykey	Active	af	nova	None	Running	17 minutes	Create Snapshot
Volumes	>	openstack-test	centos-7-iotop	10.5.113.191	m1.small	mykey	Shutoff	÷	nova	None	Shut Down	1 hour, 5 minutes	Associate Floating IP Attach Interface
Network	>	 centos-image-test 	centos-7	10.5.112.100	m1.small	mykey	Active	af	nova	None	Running	1 week	Detach Interface Edit Instance
Orchestration Data Processing	>	Displaying 3 items											Attach Volume Detach Volume Update Metadata
Admin	>												Edit Security Groups
lentity	>												Edit Port Security Gro
													View Log
													Rescue Instance
													Pause Instance
													Suspend Instance
													Shelve Instance
													Resize Instance
													Lock Instance
													Hard Rehoot Instance
													Shut Off Instance

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

Project	~	Project / Volumes / Volumes									
APLA	Access	Project / volumes / volumes									
Compute	>	Volumes									
Volumes	~										
Vol	lumes								Filter Q	+ Create Volume	
Snap	pshots	Displaying 3 items									
G	Groups	Name	Description	Size	Status	Group	Туре	Attached To	Availability Zone	Bootable	Encrypted
G Group Snap	Broups pshots	Name 90a8618a-cdd7-4d62-b6a8-0e2b358b2b5a	Description	Size 100GiB	Status In-use	Group -	Туре -	Attached To /dev/vda on Openstack-izrada-slike	Availability Zone	Bootable Yes	Encrypted
G Group Snap Network	Groups pshots	Name 90x8618x-cdd7-4d62-b6a8-0e2b358b2b5a 20e8ca1e-d635-4196-b7ac-70f2d685b810	Description -	Size 100GiB 100GiB	Status In-use In-use	Group -	Туре -	Attached To /dev/vda on Openstack-izrada-slike /dev/vda on openstack-test	Availability Zone	Bootable Yes Yes	Encrypted No No Mar Cres
G Group Snap Network Orchestration	Groups pshots >	Name 99u8618u-cdd7-4d62-b6a8-0u2b358b2b5a 20u8ca1e-d635-4196-b7ac-7012d685b810 c9e8d32c+f72e-4a1e-9631-c5b0d2e6f84	Description	Size 100GiB 100GiB 250GiB	Status In-use In-use In-use	Group	Туре - - -	Attached To /dev/vda on Openstack-izrada-slike /dev/vda on openstack-test /dev/vda on centos-image-test	Availability Zone e nova nova nova	Bootable Yes Yes Yes	Encrypted No No No Creation No Dpk Dpk Dpk

Rebuild Instance Delete Instance

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

Upload Volume to Image	×
Volume Name * 90a8618a-cdd7-4d62-b6a8-0e2b358b2b5a	Description: Upload the volume to the Image Service as an image.
image Name *	Choose "Disk Format" for the image. The volume images are created with the QEMU disk image utility.
QCOW2 - QEMU Emulator Force	When the volume status is "in-use", you can use "Force" to upload the volume to an image.
	Cancel Upload

$\label{eq:listic} Izbrišite meta podatak " \textit{signature_verified"}: Compute->Images \rightarrow Update Metadata.$

🗖 openstack.	🔳 adm	nin 👻										🛓 admin 👻
Project	~	Project / Comp	ute / Images									
Compute	×	Images	1									
0	erview	Q Click here f	for filters or full text search.						×	+ Create Ima	ige	Delete Images
Ins	mages	Displaying 11 iten	ns									
Ke	y Pairs	Owner	Name *			Туре	Status	Visibility	Protected	Disk Format	Size	
Server (Volumes	Groups	🗆 🕨 admin	centos-6			Image	Active	Public	No	QCOW2	260.45 MB	Launch 💌
Network	>	admin	centos-7			Image	Active	Public	No	QCOW2	396.97 MB	Launch 💌
Orchestration	>	admin	cirros			Image	Active	Public	No	QCOW2	12.13 MB	Launch 💌
Data Processing Admin	>	admin	debian-10			Image	Active	Public	No	QCOW2	523.01 MB	Launch 💌
Identity	>	admin	debian-9			Image	Active	Public	No	QCOW2	569.41 MB	Launch 💌
		admin	fedora-30			Image	Active	Public	No	QCOW2	316.88 MB	Launch 💌
		admin	imeNoveSlike			Image	Active	Shared	No	QCOW2	922.00 MB	Launch 💌
		admin	ubuntu-14.04			Image	Active	Public	No	QCOW2	Create Edit Im	Volume age
		admin	ubuntu-16.04			Image	Active	Public	No	QCOW2	Update Delet	Metadata

Uklonite "signature_verified" klikom na oznaku "-" i spremite.

Available Metadata	Filter	Q,	Existing Netadata	Filter	0	Å,
Custore		•	_sahara_tag_2.0.2	True	-	ľ
CIM Processor Allocatio	e Setting		_rahara_tag_vanila	True	-	1
Cinder Volume Type			_ushara_usemane	centos	-	1
Common Operating Sys	tern Properties	۰	os_hash_algo	sha512	-	1
CPU Pinning			os_hash_value	db201e12cdc	-	1
Database Software						1
Ouest Memory Backing			ce_tidoen	tatse	-	
Hypervisor Selection		•	os_type	inus 🔹	-	
Image Signature Verifica	stion	•	signature_verified	False	-)

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 clienta preko komandne linije.

Postavite Openstack client

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

openstack server create --image centos-7 --flavor ml.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