Category	API	Parameters	Optional	FusionS phere	Hybrid Cloud	Solution
		Comp	ute API v2	(SUPPORT	ED)	
API versions	List API versions			Y1	Y	
Limits	List limits			Y1	Y	
Extensions	List extensions			Y1	Y	
	Get extension			Y1	Y	
Servers	List servers			Y	Y	
	Create server	security_gro ups	Y	Y	Y	Create VM + Run Container
		user_data	Y	Y	Y	
		availability _zone	Y	Y	Y	
		imageRef	N	Y	Y	
		flavorRef	N	Y	Y	
		networks:uui d	Y	Y	Y	
		networks:por	Y	Y	Y	
		networks:fix ed_ip	Y	Y	Y	
		metadata	Y	Y	Y	
		1	Y	Y	Y	容器支持直接修改文件
		block_device _mapping_v2	Y	Y	Y(有差 异)	
		device_name	Y	Y	Y	
		source_type	Y	Y	Y	
		destination_ type	Y	Y	Y	
		delete_on_te rmination	Y	Y	Y	
		guest_format	Y	Y	N	指定磁盘文件类型 (ephemeral or swap)
		boot_index	Y	Y	Y	
		config_drive	Y	Y	N	
		key_name	Y	Y	Y	
		os:scheduler _hints	Y	Y	N	只有一个host,不存在host 调度选择

		0S-	γ	Y	Y	镜像需要记录实际占用大小
		DCF:diskConf	1		-	
	List					
	details for			Y	Y	
	servers					
	Get server			Y	Y	
	details					
	Update server			Y	Y	刷新数据库记录
	Delete					
	server			Y	Y	删除容器+虚拟机
Server	Show server					
metadata	metadata			Y1	Y1	
	Create or					
	replace					
	server			Y1	Y1	
	metadata					
	items					
	Update					
	server			Y1	Y1	
	metadata					
	items					
	Show server					
	metadata			Y1	Y1	
	item					
	details					
	Create or			Y1	Y1	
	update					
	Delete					
	server metadata			Y1	Y1	
	item					
Server	List			Y1	Y1	
addragaa	List					
	addresses			Y1	Y1	
~						
Server	Change			Y1	Y1	
actions	password					
	Reboot			Y	Y	
	server					
						(如果使用volume启动虚拟
	Rebuild					机,则没有任何变化)
	server			Y1	Y	http://blog.csdn.net/lynn
	501 101					kong/article/details/910
						2253
						指定flavor迁移虚拟机(当
						前级联方案,被级联层只有
						一个host,此处会直接报
	Resize			Y1	N	错,需要修改nova-api代码
	server			11	1,4	才能支持)
						http://docs.openstack.org
						/user-
		<u> </u>				<pre>guide/cli_change_the_size</pre>

Revert resized server		, , , , , , , , , , , , , , , , , , , 				T	
resized server		resized server			Y1	N	Confirm resize后,虚拟机
Flavors List Y Y Y		resized			Y1	N	
Flavors List chails for flavors Get flavor details Images List images details Get image details Get image details Create or replace image metadata item Show image metadata Create or update image metadata item Show image metadata Create or replace image metadata Create or replace image metadata List image metadata Create or replace image metadata List image metadata Create or replace image metadata Create or replace image metadata List image metadata Create or ly11					Y	Υ?	使用docker的导出镜像功能
List details for flavors Get flavor details Images List images List images y11 y1 y1 List images details Get image details Delete image metadata Toreate or replace image metadata Update image metadata Update image metadata Create or replace image metadata Create or replace image metadata Update image metadata Create or replace image metadata Update image wetadata Update ima	Flavors	List			Y	Y	
Images		List details for			Y	Y	
Inages					Y	Y	
List images details Get image details Delete image Metadata Image Show image metadata Create or replace image metadata Update image metadata items Show image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details Create or update image metadata item details V1 V	Images				V1	V1	
Get image details Delete image Image Show image metadata Create or replace image metadata Update image metadata Item details Create or update image metadata Item details V1 V1 V1 V1 V1 V1 V2 V1 V3 V4 V4 V4 V5 V5 V6 V7 V6 V7 V7 V7 V8 V7 V8 V7 V8 V8 V8	Tillages	List images					
Delete							
Image Show image metadata		details			Y1	Y1	
Image metadata Create or replace image metadata Update image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Create or update image metadata item Delete image metadata item V1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y					Y1	Y1	
Metadata	Imaga						
Create or replace image metadata Update image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Servers with block device List mapping format					Y1	Y1	
replace image metadata Update image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device List mapping servers format	ille taua ta						
image metadata Update image metadata I Update image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Servers with block device List mapping format List metadata is servers							
metadata Update image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Delete image metadata item V1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y2 Y4 Y4 Y4 Y4 Y4 Y4 Y5 Servers With block device mapping format					Y1	Y1	
Update image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Delete image metadata item V1 Y1 Y1 Y1 Y1 Y2 V2 Extensions (SUPPORTED) Servers with block device mapping format		-					
image metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Delete image metadata item List Servers with block device mapping format Y1 Y							
metadata items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format T1							
items Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1					Y1	Y1	
Show image metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Show image metadata item Y1 Y1 Y1 Y1							
metadata item details Create or update image metadata item Delete image metadata item Delete image metadata item V1 Y1							
item details Create or update image metadata item Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Item V1 V							
Create or update image metadata item					Y1	Y1	
Create or update image metadata item Delete image metadata item V1 V1 V1 V1 V1 V1 V1 V1 V1 V1							
update image metadata item Delete image metadata item V1 Y1 V1 V1 V1 V1 V1 V1 V1 V1 V1							
image metadata item Delete image metadata item V1 V1 V1 V1 V1 Servers with block device mapping format V1 V1 V1 V2 extensions (SUPPORTED)							
metadata item Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Y1 Y2 Y4 Y5 Y7 Y6 Y6 Y7 Y8 Y8 Y8 Y8 Y8 Y8 Y8 Y8 Y8	1				V 1	V 1	
Item	1	_			ΥI	ΙŢ	
Delete image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format V1 V1 V1 V1 V1 V1 V1 V1 V1 V							
image metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1 Y1							
metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Market Support	1						
metadata item Compute API v2 extensions (SUPPORTED) Servers with block device mapping format Y Y Y Y Y Y Y Y Y Y Y Y Y	1				Y1	Y1	
Servers with block device mapping format Compute API v2 extensions (SUPPORTED) Y Y Y							
Servers with block device List mapping servers format		11tem					
with block device List servers format			Compute Al	PI v2 extens	ions (SU	JPPORTED)	
device List servers format	Servers						
device List servers format							
mapping servers format Y					17	N/	
format					Y	Y	
	(servers)						

	T	1	1		1	
	Create			Y	Y	
~	server					
Servers with configurat ion drive (servers)	Create server with configurati on drive			Y	N	
	Get server information with configurati on drive			Y	N	
	Get server details with configurati on drive			Y	N	
Servers console (servers)	Get console			Y	Y	
Servers console output (servers)	Get console output for an instance			Y1	Y	
Servers extended attributes (servers)	List servers with extended server attributes			Y1	Y1	
	Show extended server attributes			Y1	Y1	
Servers with extended availabili ty zones (servers)	Show server			Y	Y1	
	List details for servers			Y	Y1	
Servers extended status (servers)	Show server extended status			Y	Y1	
	List extended status for servers			Y	Y1	
Servers with IP type (servers)	Show IP type			Y	Y1	

	E .	I	I	ı	ı	
	List					
	servers			Y	Y1	
	with IP			1		
	type					
Servers	Create					
multiple	multiple			Y1	Y1	
create	servers			11	11	
(servers)	Servers					
Servers	Create					
with	server with					
mac_addr	OS-EXT-IPS-					
extended	MAC:mac_add					
attribute	r extended					
(servers)	attribute					
	Show server			774	77 d	
	information			Y1	Y1	
	Get server				***	
	details			Y	Y1	
Servers						
with	Create					
scheduler	server with			Y	N	
hints	scheduler			•		
(servers)	hints					
Servers						
deferred	Force					默认只有管理员才能执行该
delete	delete			Y1	Y	操作,直接将虚拟机从磁盘
(servers,				11	I I	上删除。
· ·	server					上厕际。
action)						默认只有管理员才能执行该
	Restore			771	V	操作,如果nova配置了
	server			Y1	Y	reclaim_instance_interval
						,则虚拟机是被假删除,在 图
C						周期内还可以通过restore恢
Servers						proxy没有该接口(营救一个
rescue and	Rescue					故障虚拟机的数据。指定密
unrescue	server			N	N	码以及营救镜像创建一个虚
(servers,						拟机,用这个虚拟机再去恢
action)						复数据。)
	Unrescue			N	N	proxy没有该接口(回滚)
	server			- '	- '	
Servers						proxy没有该接口(搁置一个
shelve	Shelve			N	N	虚拟机。停止虚拟机,并做
(servers,	server			11	11	快照)
action)						DCMC/
	Remove a					proxy没有该接口(删除虚拟
1	shelved			N	N	机)
	instance					7) U /
1	Restore					proxy没有该接口(恢复搁置
	shelved			N	N	
	server					的虚拟机)
Servers						
start and	Stont					
stop	Start			Y	Y	
(servers,	server					
action)						
/			i			

	Stop server		Y	Y	
Servers	227 232 732		-		
diagnostic					
s	Get server		NT.	NT.	T+++
(servers,	diagnostics		N	N	proxy不支持
diagnostic					
s)					
Servers					
and images					
with disk	Create		37	37	
config	server		Y	Y	
(servers,					
images)					
	Show server		17	171	
	information		Y	Y1	
	Update		V	V1	
	server		 Y	Y1	
	Resize		V1	N	
	server		 Y1	N	
	Rebuild		V1	V	
	server		Y1	Y	
	List		V	V	
	servers		Y	Y	
	Get image		771	V	
	information		Y1	Y	
	List images		Y1	Y	
Servers					
availabili	Create				
ty zones	server with				
(servers,	availabilit		Y	Y	
os-	y zone				
availabili	y zone				
ty-zone)					
	List	ļ			
	availabilit	ļ	Y1	Y	
	y zones				
	List				
	availabilit	ļ			
	y zones		Y1	Y	
	with				
	details				
	Show	ļ			
	availabilit		Y1	Y	
	y zone	ļ	11	1	
	information				
Servers					
instance					
actions	List server]	
,		ļ	Y1	Y	查询虚拟机操作历史记录
(servers,		ļ .			
os-	actions				
os- instance-					
os-	actions				
os- instance-			Y1	Y	查询虚拟机操作详情

-	1		ı	Ī	
Servers					
password	Get server				
(servers,	password		Y1	Y	
os-server-	pass "or a				
password)					
	Clear				清除metadata server中的
	server		Y1	Y	administartor password
	password				administartor password
Servers					
virtual					
interfaces	List				
(servers,	virtual		Y1	Y	
os-	interfaces		11	1	
virtual-	interraces				
interfaces					
)					
	Show	 			
	virtual				
	interface		V1	V	
	and		Y1	Y	
	attached				
	network				
Servers					
with					
volume					
attachment	l				
S	Attach		Y	Y	
(servers,	volume			_	
os-					
volume_att					
achments)					
	List volume		***		
	attachments		Y1	Y	
	Show volume				
	attachment		Y1	Y	
	details				
	Detach				
	volume		Y	Y	
Server					
boot from					
volume	Create		17	.,	
(os-	server		Y	Y	
volumes_bo					
ot)					
Flavors					
create and	Create		37.1	V	
delete	flavor		Y1	Y	
(flavors)					
	Delete		771	V	
	flavor	 	Y1	Y	
Flavors					
with	Get flavor				
disabled	disabled		Y1	Y	
attribute	status				
(flavors)	details				
2 . 5 2 6/					

	List					
	flavors					
				57.1	7.7	
	with flavor			Y1	Y	
	disabled					
	status					
Flavors						
	Connection					
with	Create					
extended	flavor with			Y1	Y	
attributes	extra data					
(flavors)						
(114/013)	C - + - C1					
	Get flavor					
	extra data			Y1	Y	
	details					
	List					
	flavors					
				Y1	Y	
	with extra					
	data					
Flavors						
with						
	Create					
rxtx_facto	flavor with			Y1	Y	
r extended				**	_	
attribute	rxtx_factor					
(flavors)						
(11av018)	0 + 01					
	Get flavor					
	with			Y1	Y	
	rxtx_factor					
	Get flavor					
	Details			Y1	Y	
	with				•	
	rxtx_factor					
Flavors						
with						
extra-	List flavor					
specs				Y1	Y	
(flavors,	extra specs					
os-extra-						
specs)						
1	Create					
1	flavor			Y	Y	
1	extra specs					
	Get flavor					
1				37.1	37	
1	extra spec			Y1	Y	
	details					
	Update					
	flavor			Y1	Y	
1				1.1	1	
ļ	extra specs					
1	Delete					
1	flavor			Y1	Y	
1	extra specs					
Florence	CVITA PACCS					
Flavors	List					
access	flavors					
(flavors,				Y1	Y	
os-flavor-	with access					
	type	1	1			
access)	cybe					

	Create				
	private		Y1	Y	
	flavor				
	Show flavor				
	access type		Y1	Y	
	access type				
	List				
	tenants				
	with access		Y1	Y	
	to private				
	flavor				
	Add access				
	to private		Y1	Y	
	flavor			•	
	Delete				
	access from		Y1	Y	
	private				
	flavor				
Flavors	 				
swap	1				
(flavors,	List flavor		Y1	Y	
os-flavor-	extra specs				
swap)					
swap)	C 4				
	Create		***		
	flavor		Y1	Y	
	extra specs				
Limits					
with					
project	Get limits		Y1	Y	
usage					
(limits)					
Limits					
with					
project	Get				
usage for	customer		Y1	Y	
administra	limits				
tors					
(limits)					
Guest					
agents	List agents		Y1	N	
(os-					
agents)					
	Create		Y1	N	
	agent	 	1.1	11	
	Delete	 	V 1	N	
	agent		Y1	N	
	Update				
			Y1	N	
Hogt.	agent				
Host					
aggregates	List				
(os-	aggregates		Y1	Y	
aggregates	aggi egales				
)					
	Create		***	**	
	aggregate		Y1	Y	
	ubbi caute		ı		

Delete aggregate Y1 Y		D 1 .				
Section				Y1	Υ	
aggregate						
details						
Update Seriogate Seriog				Y1	Y	
Set						
Set aggregate Y1 Y Y		Update		V 1	V	
Set aggregate metadata Add host to aggregate Remove host from Y1 Y		aggregate		11	Y	
aggregate						
Metadata				Y1	Υ	
Add host to aggregate Y1 Y Y					_	
Remove host From Aggregate Y1 Y Y Y Y Y Y Y Y						
Remove host from				Y1	Y	
Show N N N N N N N N N						
Bosts (os						
Hosts (os-hosts)				Y 1	Y	
List hosts Yi Y Yi Yi Yi Yi Yi Yi		aggregate				
Show host Information Y1 Y Y1 Y Y1 Y Y1 Y Y	,	List hosts		V 1	V	
Information	hosts)	LIST HOSTS		 1.1	1	
Information		Show host		 V 1	V	
Update host N N N		information		ΙI	ĭ	
Start host				N	N	
Shut down host Reboot host N N N N N N N N N N N N N N N N N N N						
host Reboot host N N N						
Reboot host N				N	N	
Hypervisor s (os- hypervisors s) Show hypervisor information Show statistics for hypervisors Show hypervisors Whypervisor up time List instances for hypervisors Hypervisor with status (os- hypervisor - status) Attach interface (os- interface interface) List List VI V				NT.	NT.	
s (os-hypervisor hypervisors hypervisors hypervisor hypervisors hypervisors hypervisors hypervisor host, 该接口与预想结果不一致 Show hypervisor information Show statistics for hypervisors Show hypervisors Show hypervisor up time List instances for hypervisors Hypervisor with status (os-hypervisor status) Attach interface (os-interface interface) List		Reboot nost		N	N	^ }_
hypervisor s) Show hypervisor information Show statistics for hypervisors Show hypervisors Show hypervisors Show hypervisor Up time List instances for hypervisors Hypervisor with status (os—hypervisor—status) Hypervisor - status Attach interfaces (os—interface) List V1 V						
Nypervisor Nypervisors Nypervisors Nypervisor				N	N	
Show hypervisor information N	hypervisor	hypervisors		11	11	host,该接口与预想结果不
hypervisor information N	s)					一致
Information Show Statistics For N		Show				
Information Show Statistics For N		hypervisor		N	N	
Show statistics for hypervisors Show hypervisor up time List instances for hypervisors Whypervisor with Show hypervisor information hypervisor information Attach interfaces (os— interface interface) List V1 V				- 1		
statistics for hypervisors Show hypervisor up time List instances for hypervisor with Status (os- hypervisor -status) Attach interfaces (os- interface) List N N N N N N N N N N N N N N N N N N						
for hypervisors Show hypervisor up time List instances for hypervisors Hypervisor with status (os-hypervisor -status) Attach interfaces (os- interface interface) List N						
hypervisors Show hypervisor up time List instances for hypervisors Hypervisor with status (os- hypervisor -status) Attach interfaces (os- interface) List N N N N N N N N N N N N N N N N N N				N	N	
Show hypervisor up time List instances for hypervisors With Status (os-hypervisor -status) Attach interfaces (os- interface interface) List N N N N N N N N N N N N N N N N N N N						
hypervisor up time List instances for hypervisors Hypervisor with status (os-hypervisor -status) Attach interfaces (os- interface) List NN						
List instances for hypervisors Hypervisor with status (os- hypervisor -status) Attach interfaces (os- interface) List List N N N N N N N N N N N N N N N N N N						
List instances for hypervisors Hypervisor with Show hypervisor information -status) Attach interfaces (os— interface interface) List N		hypervisor		N	N	
List instances for hypervisors Hypervisor with Show hypervisor information -status) Attach interfaces (os— interface interface) List N			 			
instances for hypervisors Hypervisor with status (os- hypervisor -status) Attach interfaces (os- interface) List N N N N N N N N N N N N N N N N N N						
for hypervisors Hypervisor with Show hypervisor information hypervisor -status) Attach interfaces (os— interface interface) List N N N N N N N N N N N N N N N N N N						
Hypervisor with status (os- hypervisor -status) Attach interfaces (os- interface) List Hypervisors N N N N N N N N N N N N N N N N N N N				N	N	
Hypervisor with status (os-hypervisor information -status) Attach interfaces (os-interface) List V1 V						
with status (os- hypervisor information -status) Attach interfaces (os- interface interface) List V1 V	Hernomer's = -	nypervisors				
status (os- hypervisor -status) Attach interfaces (os- interface) List Show hypervisor N N N N N N N N N N N N N N N N N N N						
status (os- hypervisor -status) Attach interfaces (os- interface) List N N N N N N N N N N N N N N N N N N		Show				
hypervisor -status) Attach interfaces (os- interface) List Information Y1 Y Y Y V1 V1 V1 V1 V1 V1 V				N	N	
nypervisor -status) Attach interfaces (Create (os- interface) List V1 V				11	1.1	
-status) Attach interfaces Create (os- interface) List V1 V1 V	hypervisor	1111 OI mat 10f1				
Attach interfaces (os- interface interface) List V1 V						
interfaces Create (os- interface interface) List Y1 Y V1 V						
(os- interface interface List V1 V		Create				
interface) List V1 V				Y1	Y	
List _{V1} _V		interrace				
	interrace)	T				
interfaces ' ' '				Y1	Y	
		interfaces				

	01	1		I	
	Show				
	attached		Y1	Y	
	interface		11	1	
	information				
	Detach		37.1	V	
	interface		Y1	Y	
Keypairs					
(OS-	List		Y	Y	
	keypairs		1	1	
keypairs)	C 4				
	Create or		**	.,	
	import		Y	Y	
	keypair				
	Delete		Y	Y	
	keypair		1	1	
	Show				
	keypair		Y	Y	
	information		1		
Migratica					
Migrations					
	Get		Y1	Y	
migrations	migrations		11	1	
)		 			
Quota		 			
class (os-					
quota-	Show quota		Y1	Y	
	Show quota		11	1	
class-					
sets)					
	Update		Y1	Y	
	quota		11	1	
Quota sets					
(os-quota-	Show quotas		Y	Y	
sets)	-				
	Update				
			Y	Y	
	quotas				
	Delete		Y1	Y	
	quotas				
	Get default		Y	Y	
	quotas		1	1	
	Show quotas	 	V.1	V	
	for user		Y1	Y	
	Update				
	quotas for		Y1	Y	
			11	1	
	user				
	Delete		***	 	
	quotas for		Y1	Y	
	user				
	Show quota	 			
	details for		Y1	Y	
	user				
Server	5501				
groups	List server		V 1	V	
(os-	groups		Y1	Y	
server-	-				
groups)					

					服务器组,策略用于指定发
	C				放虚拟机是否在同一个
	Create		Y1	Y	hypervisor内(通过hint指
	server		11	Y	定),hypervisor信息通过
	group				nova show serverid 查询
					hostId字段
	Show server				
	group		Y1	Y	
	details				
	Delete				
	server		Y1	Y	
	group				
Manage					
services	List		Y1	Y	
(os-	services				
services)	D 11				
	Enable				
	scheduling		Y1	Y	
	for a				
	service				
	Disable				
	scheduling		Y1	Y	
	for a				
	service				
	Log				
	disabled		Y1	Y	
	service				
	information				
	List		374	37	
	disabled		Y1	Y	
	services				
	Delete		Y1	Y	
Usage	service				
reports	List usage				
(os-	information				
simple-	for all		Y1	Y	
tenant-	tenants				
usage)	tenants				
35480/	Get tenant				
	usage		Y1	Y	
	information			, i	
Servers	Pause				
	server				
	Unpause				
	Suspend				
	server				
	Resume				
	server				
	Migrate				
	server				
	Reset				
	networking				
	on server				

	Inject			
	network			
	information			
	Lock server			
	Unlock			
	server Create			
	server			
	backup			
	Live-			
	migrate			
	server			
	Reset			
	server			
	state			
	Evacuate			
	server			
	Add			
	floating IP			
	address			
Bare metal				
nodes (os-	Add bare			
baremetal-	metal node			
nodes)				
	List bare			
	metal nodes			
	Add			
	interface			
	to bare			
	metal node			
	Delete			
	interface			
	from bare			
	metal node			
	Show bare			
	metal node			
D 4	details			
Root				
certificat	Create root			
es (os-	certificate			
certificat es)				
CS)	Show root			
	certificate			
	details			
Cloudpipe				
(OS-	List			
cloudpipe)	cloudpipes			
1 -1 -7	Create			
	cloudpipe			
	Update			
	cloudpipe			

	-			
Coverage	Get			
reports	coverage			
(os-	report			
coverage)	report			
	Start			
	coverage			
	report			
	Start			
	combined			
	coverage			
	report			
	Stop			
	coverage			
	report			
Network	т Срот С			
extended				
attributes	Croato			
(os-				
	network			
extended-				
networks)	T			
	List			
	networks			
	Show			
	network			
	information			
Fixed IPs	Show fixed			
,				
ips)	information			
	Reserve or			
	release a			
	fixed IP			
Floating				
IP DNS				
records	List DNS			
(os-	domains			
floating-				
ip-dns)				
	Create or			
	update DNS			
	domain			
	Delete DNS			
	domain			
	Create or			
	update DNS			
	entry			
	Find unique			
	DNS entry			
	Delete DNS			
	entry			
	List DNS			
	entries			
	entries			

D1				
Floating				
IP pools	List			
(os-	floating IP			
floating-	pools			
ip-pools)				
Floating				
IPs (os-	List			
	floating			
floating-	IPs			
ips)				
	Allocate			
	floating IP			
	Show			
	floating IP			
	information			
	Deallocate			
	floating IP			
	Add			
	floating IP Remove			
	floating IP			
Floating				
IPs bulk	List			
(os-	floating			
floating-	IPs			
ips-bulk)	-			
	Create			
	floating			
	IPs			
	Bulk-delete			
	floating			
	IPs			
	List			
	floating			
NT . 1	IPs by host			
Networks	Create			
(os-	network			
networks)				
	List			
	networks			
	Add network			
	Show			
	network			
	information			
	Delete			
	network			
	Associate			
	host			
	Disassociat			
	e host			
	Disassociat			
	e network			
	Disassociat			
	e project			
	e project			

Security groups (os-security-groups)	List security groups			
	security groups by server			
	Create security group			
	Show security group information			
	Update security group			
	Delete security group			
Rules for security group (os- security- group- rules)	Create security group rule			
	Delete security group rule			
Rules for default security group (os- security- group- default- rules)	security group rules			
	Create default security group rule			
	Show default security group rule information			
	Delete default security group rule			

Images with size attribute (images)	List details for images			
	Get image details			
Volume extension (os- volumes, os- snapshots)	List volumes			
	Create volume			
	List details for volumes			
	Show volume information			
	Delete volume			
	List volume types			
	Show volume type			
	Create snapshot			
	List snapshots			
	List details for snapshots			
	Show snapshot			
	Delete snapshot			