Category	API	Parameters	Optional	FusionS phere	Hybrid Cloud	Solution	
		Comp	ute API v2	(SUPPORTED)			
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	挂载启动盘看到的数据和 FusionSphere上看到的不一	
		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	Y	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	

		OS- DCF:diskConf	Y	Y	Y	镜像需要记录实际占用大小
	List details for	Der Farbneen.		Y	Y	
	servers Get server			Y	Y	
	details			1	I	
	Update server			Y	Y	刷新数据库记录
	Delete server			Y	Y	删除容器+虚拟机
Server metadata	Show server metadata			Y1	Y	
ine cadara	Create or replace server metadata			Y1	Y	
	items Update server metadata items			Y1	Y	
	Show server metadata item details			Y1	Y	
	Create or update			Y1	Y	
	Delete server metadata item			Y1	Y	
Server addresses	List addresses			Y1	Y	
	List addresses			Y1	Y	
Server actions	Change password			Y1	Y	
ac trong	Reboot server			Y	Y	
	Rebuild server			Y1	Y	替换镜像重新创建虚拟机 (如果使用volume启动虚拟 机,则没有任何变化)
	Resize server			Y1	N	指定flavor迁移虚拟机(当前级联方案,被级联层只有一个host,此处会直接报错,需要修改nova-api代码
	Confirm resized server			Y1	N	如果resize成功,虚拟机状态变为VERIFY_RESIZE, Confirm resize后,虚拟机 状态变为ACTIVE
	Revert resized server			Y1	N	如果resize失败,可以 revert resize,重新回滚

	Create				1	
				Y	Y	使用docker的导出镜像功能
	image List					
Flavors	flavors			Y	Y	
	List					
	details for			Y	Y	
	flavors			1	•	
	Get flavor					
	details			Y	Y	
Images	List images			Y1	Y	
	List images					
	details			Y1	Y	
	Get image			371	V	
	details			Y1	Y	
	Delete			37.1	V	
	image			Y1	Y	
Image	Show image			Y1	Y	
metadata	metadata			11	1	
	Create or					
	replace			Y1	Y	
	image			1 1	1	
	metadata					
	Update					
	image			Y1	Y	
	metadata			1 1	1	
	items					
	Show image					
	metadata			Y1	Y	
	item				_	
	details					
	Create or					
	update					
	image			Y1	Y	
	metadata					
	item					
	Delete					
	image			Y1	Y	
	metadata					
	item					
		Compute Al	PI v2 extens	sions (SU	JPPORTED)	
Servers						
with block						
device	List					
mapping	servers			Y	Y	
format	531,018					
(servers)						
(201,010)	Create					
	server			Y	Y	
Servers						
with	Create					
configurat	server with			Y	N	
ion drive	configurati					
(servers)	on drive					
(DOT 1010)	1		<u> </u>	1	1	

	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	Y	
	Show extended server attributes		Y1	Y	
Servers with extended availabili ty zones (servers)	Show server		Y	Y	
	List details for servers		Y	Y	
Servers extended status (servers)	Show server extended status		Y	Y	
	List extended status for servers		Y	Y	
Servers with IP type (servers)	Show IP type		Y	Y	
	List servers with IP type		Y	Y	

Servers	Create				
multiple			17.1	V	
create	multiple		Y1	Y	
(servers)	servers				
	Show server		37.1	17	
	information		Y1	Y	
	Get server				
	details		Y	Y	
Servers					
start and					
stop	Start		Y	Y	
(servers,	server		•	•	
action)					
action)	Stop server		Y	Y	
Servers	Stop Server		1	1	
and images					
with disk	Create				
			Y	Y	
config	server				
(servers,					
images)	C1				
	Show server		Y	Y	
	information				
	Update		Y	Y	
	server				
	Resize		Y1	N	
	server				
	Rebuild		Y1	Y	
	server			_	
	List		Y	Y	
	servers		•	•	
	Get image		Y1	Y	
	information				
	List images		Y1	Y	
Servers					
availabili	Create				
ty zones	server with				
(servers,			Y	Y	
os-	availabilit				
availabili	y zone				
ty-zone)					
	List				
	availabilit		Y1	Y	
	y zones				
	List				
	availabilit				
	y zones		Y1	Y	
	with			_	
	details				
	Show				
	availabilit				
			Y1	Y	
	y zone				
	information				

T		1			
Servers instance actions (servers, os- instance- actions)	List server actions		Y1	Υ	查询虚拟机操作历史记录
	Get action details		Y1	Y	查询虚拟机操作详情
Servers password (servers, os-server- password)	Get server password		Y1	Y	
	Clear server password		Y1		清除metadata server中的 administartor password
Servers virtual interfaces (servers, os- virtual- interfaces)	List virtual interfaces		Y1	Y	
	Show virtual interface and attached network		Y1	Y	
Servers with volume attachment s (servers, os- volume_att achments)	Attach volume		Y	Y	
	List volume attachments Show volume		Y1	Y	
	attachment details Detach volume		Y1 Y	Y	
Server boot from volume (os- volumes_bo ot)	Create server		Y	Y	

Flavors	1				_
create and delete	Create flavor		Y1	Y	
(flavors)	Delete flavor		Y1	Y	
Flavors with disabled attribute (flavors)	Get flavor disabled status details		Y1	Y	
	List flavors with flavor disabled status		Y1	Y	
Flavors with extended attributes (flavors)	Create flavor with extra data		Y1	Y	
	Get flavor extra data details		Y1	Y	
	List flavors with extra data		Y1	Y	
Flavors with rxtx_facto r extended attribute (flavors)	Create flavor with rxtx_factor		Y1	Y	
(===:===)	Get flavor with rxtx factor		Y1	Y	
	Get flavor Details with rxtx factor		Y1	Y	
Flavors with extra- specs (flavors, os-extra-	List flavor extra specs		Y1	Y	
specs)	Create flavor extra specs		Y	Y	
	Get flavor extra spec details		Y1	Y	

	TT 1 .			1	
	Update				
	flavor		Y1	Y	
	extra specs				
	Delete				
	flavor		Y1	Y	
	extra specs				
Flavors					
access	List				
(flavors,	flavors		Y1	Y	
os-flavor-	with access		11	1	
	type				
access)					
	Create				
	private		Y1	Y	
	flavor				
	Show flavor		Y1	Y	
	access type	 	11	1	
	List				
	tenants				
	with access		Y1	Y	
			11	1	
	to private				
	flavor				
	Add access		***	.	
	to private		Y1	Y	
	flavor				
	Delete				
	access from		V 1	V	
	private		Y1	Y	
	flavor				
Flavors					
swap					
(flavors,	List flavor		Y1	Y	
	extra specs		1 1	1	
os-flavor-					
swap)	0 :				
	Create				
	flavor		Y1	Y	
	extra specs				
Limits					
with					
project	Get limits		Y1	Y	
usage					
(limits)					
Limits					
with					
	Cot				
project	Get		37.1	V	
usage for	customer		Y1	Y	
administra	limits				
tors					
(limits)					
Attach					
interfaces	Create		V 1	V	
(os-	interface		Y1	Y	
interface)					
	List				
	interfaces		Y1	Y	
	1111011000			L	

	1			1	
	Show				
	attached		Y1	Y	
	interface		11	ĭ	
	information				
	Detach		37.1	17	
	interface		Y1	Y	
Keypairs					
(00-	List		Y	Y	
keypairs)	keypairs			_	
J F = - /	Create or				
	import		Y	Y	
	keypair		_	_	
	Delete				
	keypair		Y	Y	
	Show				
	keypair		Y	Y	
	information		1	1	
Migrations	IIII OI Mat I OII				
	Get				
migrations			Y1	Y	
lingrations	migrations				
Quota					
class (os-					
	Cham austa		Y1	Y	
quota-	Show quota		11	ĭ	
class-					
sets)	TT 1 .				
	Update		Y1	Y	
0 4	quota				
Quota sets	C1 .		37	37	
	Show quotas		Y	Y	
sets)	TT 1 4				
	Update		Y	Y	
	quotas				
	Delete		Y1	Y	
	quotas				
	Get default		Y	Y	
	quotas				
	Show quotas		Y1	Y	
	for user				
	Update		37.1	17	
	quotas for		Y1	Y	
	user				
	Delete		***		
	quotas for		Y1	Y	
	user				
	Show quota				
	details for		Y1	Y	
	user				
Manage					
	List		Y1	Y	
(os- services)	services		-	-	
	i			1	

	1				
	Enable				
	scheduling				
	for a		Y1	Y	
	service				
	Disable				
	scheduling		37.1	17	
	for a		Y1	Y	
	service				
	Log				
	disabled		Y1	Y	
	service		11	1	
	information				
	List				
	disabled		Y1	Y	
			11	I	
	services				
	Delete		Y1	Y	
	service		11	1	
Usage					
reports	List wasas				
_	List usage				
(os-	information		Y1	Y	
simple-	for all		**	•	
tenant-	tenants				
usage)					
asage)	Get tenant				
			37.1	37	
	usage		Y1	Y	
	information				
Host					
aggregates					
(os-	List		Y1	Y	
	aggregates		11	1	
aggregates					
)					
	Create		Y1	Y	
	aggregate		11	1	
	Delete				
			Y1	Y	
	aggregate				
	Get				
	aggregate		Y1	Y	
	details				
	Update				
	aggregate		Y1	Y	
	Set				
	aggregate		Y1	Y	
	metadata				
	Add host to		***	***	
	aggregate		Y1	Y	
	Remove host		***	**	
	from		Y1	Y	
	aggregate				
Hosts (os- hosts)	List hosts		Y1	Y	
1100 (0)	Show host				
			Y1	Y	
	information				
	Update host			N	
	Start host		N	N	

	Shut down		N	N	
	host Reboot host		N	N	
Servers rescue and unrescue (servers, action)	Rescue server		N	N	proxy没有该接口(营救一个 故障虚拟机的数据。指定密 码以及营救镜像创建一个虚 拟机,用这个虚拟机再去恢 复数据。)
	Unrescue server		N	N	proxy没有该接口(回滚)
Servers shelve (servers, action)	Shelve server		N	N	proxy没有该接口(搁置一个 虚拟机。停止虚拟机,并做 快照)
	Remove a shelved instance		N	N	proxy没有该接口(删除虚拟 机)
	Restore shelved server		N	N	proxy没有该接口(恢复搁置 的虚拟机)
Servers with mac_addr extended attribute (servers)	Create server with OS-EXT-IPS- MAC:mac_add r extended attribute				
,	List hypervisors		N	N	一个被级联层对应一个proxy 也就是一个hypervisor host,该接口与预想结果不 一致
	Show hypervisor information		N	N	
	Show statistics for hypervisors		N	N	
	Show hypervisor up time		N	N	
	List instances for hypervisors		N	N	
Hypervisor with status (os-hypervisor -status)	Show hypervisor information		N	N	
Server groups (os- server- groups)	List server groups		Y1	Y	

	Create server group		Y1	Y	服务器组,策略用于指定发放虚拟机是否在同一个hypervisor内(通过hint指定),hypervisor信息通过nova show serverid 查询hostId字段
	Show server group details		Y1	Y	
	Delete server group		Y1	Y	
Servers diagnostic s (servers, diagnostic s)	Get server diagnostics		N	N	proxy不支持
Servers with scheduler hints (servers)	Create server with scheduler hints		Y	N	
Servers deferred delete (servers, action)	Force delete server		Y1	Y	默认只有管理员才能执行该 操作,直接将虚拟机从磁盘 上删除。
	Restore server		Y1		默认只有管理员才能执行该操作,如果nova配置了reclaim_instance_interval,则虚拟机是被假删除,在周期内还可以通过restore恢
Guest agents (os- agents)	List agents		Y1	N	
	Create agent		Y1	N	
	Delete		Y1	N	
	Update		Y1	N	
Servers	agent Pause				
administra					
	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			
	details			
Root				
certificat	C t			
es (os-	Create root			
certificat	certificate			
es)				
	Show root			
	certificate			
	details			
Claudain	uetalis			
Cloudpipe	List			
(os-	cloudpipes			
cloudpipe)				
	Create			
	cloudpipe			
	Update			
	cloudpipe			

	-			
Coverage	Get			
reports	coverage			
(os-	report			
coverage)	report			
	Start			
	coverage			
	report			
	Start			
	combined			
	coverage			
	report			
	Stop			
	coverage			
	report			
Network	торого			
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			