## Cheatography

# Multipass CLI 2022, Ubuntu VMs on demand on any OS Cheat Sheet by Boulard via cheatography.com/125912/cs/34234/

Create Instan	ces	Create an instance with a c	custom DNS	
multipass launch	Creates an instance using a random name	multipass launchcloud- init systemd-resolve-	Creates an instance with a custom DNS	
multipass	Get info about an instance	d.yaml		
info <insta- nce&gt;</insta- 		after the instance booted use the netplan.io	https://multipass.run/docs/create-an-in- stance#headingthe-netplanio-app-	
multipass find	find out what images are available	approach roach In some scenarios the default of using the system-provided DNS will		
multipass launch <im-< td=""><td>launch an instance using the specified image</td><td colspan="3">not be sufficient.</td></im-<>	launch an instance using the specified image	not be sufficient.		
age>		systemd-resolved.yaml cloud-init snippet:		
multipass launch <im- age&gt; [ name -n] <instance></instance></im- 	launch an instance and name it	#cloud-config bootcmd: - printf "[Resolve]\nDNS=8.8.8.8" > /etc/systemd/resolved.conf - [systemctl, restart, systemd-resolved]		
multipass launch [	Create an instance with custom CPU number, disk, and RAM	8.8.8 is a Google DNS		
cpus -c] 4 [ disk,-d] 20G		Remove or delete an instal	nce	
[mem,-m] 8G		multipass delete <instance< td=""><td>&gt; Move an instance to the 'recycle bin'</td></instance<>	> Move an instance to the 'recycle bin'	
multipass launch <im- age&gt; [ name,-n] primary</im- 	An instance can obtain the primary status at creation time if its name is primary. A primary instance is the default argument for several commands, such as shell , start , stop , restart , and suspend and also automatically mounts our \$HOME directory in the instance.	multipass deleteall	Move all instances to the 'recycle bin'	
		multipass recover <instanc< td=""><td>Recover an instance put to the 'recycle bin'</td></instanc<>	Recover an instance put to the 'recycle bin'	
		multipass deletepurge <i stance&gt;</i 	n- Permanently delete an instance	
multipass	Create an instance specifying NICs. See https://mult- ipass.run/docs/create-an-instance#headingcreate- an-instance-with-multiple-network-interfaces	multipass purge	Empty the 'recycle bin'	
launch network en0		Dunning a container with th		
network		Running a container with th		
name=brid-		multipassCreates a virtual machine running the latest versionlaunch dockerof Ubuntu, with Docker and Portainer installed.		
ge0,mode=- manual			Docker in the instance	
	option can be given multiple times, each one	exec docker docker		

The --network option can be given multiple times, each one requesting an additional network interface (beyond the default one, which is always present, used to reach the outside world and used by multipass to communicate with the instance).

--network takes at most 3 <key>=<value>: name — the only required value, it identifies the network, mode that is either manual or auto (try to auto join the net), mac to specify a mac address for the NIC

NIC: network interface controller



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Running a container with the Docker workflow (cont)			Modify an instance			
multipass alias		er command to our host command line. use the docker command as if Docker	multipass set client.primary-name= <instance name=""></instance>		Grant a regular instance the primary status	
docker:d ocker	command will	directly on our host machine. This return instructions showing how to add the	multipass set [local. <instance>.(cp- us disk memory)]</instance>		Change CPU RAM DISK	
	new alias to our path. Simply copy and paste the command shown. It will likely be of this form: PATH="\$-PATH:/home/ <user>/snap/multipass/common/bin"</user>		see https://multipass.run/docs/modify-an-instance			
docker			Use an Instance			
run hello	Works only if the alias is created.		multipass shell <instance></instance>		Open a shell prompt inside an instance	
world multipass	Shows the IP a	addresses associated with the created	multipass exec <inst< td=""><td>ance&gt; <cmd></cmd></td><td>Execute a command inside an instance</td></inst<>	ance> <cmd></cmd>	Execute a command inside an instance	
list http://10.	Ddocker VM. The Portainer IP should start with a 10. /10. Shows the Portainer web interface.		multipass start suspend stop <insta- nce&gt;[ <instance>]</instance></insta- 		Start, suspend or stop instances	
po- rtainer-			multipass start suspend stop -all		Start, suspend or stop all instances	
ip:9000			Aliases on Instances			
Portainer config 1) Set username and password						
					executed from the host, into	
<ul><li>2) Select local docker env opt. and click connect</li><li>3) Click on the newly created "Local" environment to manage the</li></ul>			<alias></alias>	the instance. ex: multipass alias proxy:ls Isproxy		
	tance on our loc		multipass alias <in-< td=""><td colspan="2">Do not change the working directory on the</td></in-<>	Do not change the working directory on the		
see https://multipass.run/docs/docker-tutorial			stance>: <cmd></cmd>	instance to the mounted directory (in case the host folder on which executing an alias is mounted on the instance)		
Install			<alias>no-map working-directory</alias>			
brew install bash-comp- install bash completion if not		install bash completion if not already	multipass aliases list defined aliase		ses and their instances	
letion		installed	multipass <alias></alias>	execute an alia	IS	
brew instal multipass	Icask	cask option may be omitted	multipass unalias <alias>[ <alias>]</alias></alias>	remove aliases	5	
brew unins	tall multipass	uninstall multipass	multipass unalias	remove all aliases		
brew uninstallzap uninstall multipas multipass		uninstall multipass and data	all			
multipass version to check the install and get the version			Add the multipass bin folder to the path to use <alias> instead of</alias>			
			,	multipass <alias>. Arguments are also supported</alias>		
			0			
			nano ~/.bashrc #linux			

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nano ~/.zshhrc #mac

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PATH="\$PATH:/home/user/snap/multipass/common/bin"

## Cheatography

Share data with an instance using "mount"					
multipass mount \$HOME <instance></instance>	/home/me will be available inside the instance.				
multipass mount \$HOME <instance>: </instance>	Specifies the path inside the instance in which to mount the local path				
multipass launchmount >:multipass launchmount /some/loc- al/path:/instance/path	Specifies mount on launch				
multipass umount <instance></instance>	Unmount all volumes from an instance				
multipass umount <instance>:nce/path&gt;</instance>	Unmount a specific volume from an instance				

The recommended way to share data between your host and an instance with Multipass is the mount command

### Share data with an instance using "transfer"

multipass transfer <instance>:<th>Copy 2 files from the</th></instance>	Copy 2 files from the
nce/path/file1> <instance>:</instance> <td>instance to the</td>	instance to the
th/file2>	specified host path
multipass transfer <instance>:<td>Copy 2 files from the</td></instance>	Copy 2 files from the
nce/path> <td>host path to the</td>	host path to the
e2> <instance>:</instance>	specified instance path

use transfer to just copy files around. If a file is inside an instance, prefix its path with <instance name>:.

#### Miscellaneous

multipass exec primary -- bash -c 'echo "PasSwOrD" | docker secret create secret-pass -' create a docker secret in the primary node without storing it



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