Cheatography

linux Cheat Sheet

by rajuganesh via cheatography.com/104561/cs/25038/

List files

listed view	`ls -l`
show hidden files also	`ls -la`
show size in human readable	`ls -lah`
showfile created today	`ls -ltr | grep " $(date '+%b %e') "`
show files in tree structure	`tree [/path /to /fo lder]`

vi editor

quit	`:q`
force quit	`:q!`
save and quit	`:wq`
find foo and replace all with bar	`%s/foo /bar/g`

install loadbalancer

install lb	`yum install ipvsadm`
enable ip forwarding	`echo 'net.i pv4.ip _fo rward = 1' | sudo tee -a /etc/s ysc tl.c onf`
reload	`sudo sysctl -p`
check ip forwarding enabled	`sysctl net.ip v4.i p_ forward`
create config file	`sudo touch /etc/s ysc onf ig/ ipvsadm`
start service	`sudo systemctl enable --now ipvsadm`
clear iptable rules	`sudo ipvsadm -C`
add a virtual service	`ipvsadm -A -t [Servi ceI P:Port] -s [Distr ibution method]`

ansible

ansible (cont)

check if installed yum pacakage is latest	`ansible all -m yum -a " nam e=d ocker state est "`
sudo pass in ansible-playbook	`--extr a-vars " ans ibl e_s udo _pa ss= abc`

encode

encode	`echo 'passw ord @123' |base64`
encode without newline	`echo 'passw ord @123' |base64 | tr -d \ \n`
decode	`echo 'cGFzc 3dv cmR AMT IzCg==' |base64 -d`

curl

ignore certif-icate error	`curl -vk https: //l oca lho st:8080`
to grep pattern	`curl -v --silent https: //k id2 com p02 7.e r pattern]`
curl tcp	`curl -v telnet :// 127.0.0.1:22`

system stats

export inventory	`export ANSIBL E_I NVE NTO RY= /ho me/ use r1/ inventory`
run adhoc command in all nodes	`ansible all -a 'uname -r'`
run command with multiple forks (defau-lt:5)	`ansible all -a 'uname -r' -f 15`
run command as different user	`ansible all -a uptime -u userx`
copy file	`ansible all -m copy -a " src =te stfile dest=/tmp /te st f ile "`
check if yum package is present	`ansible all -m yum -a " nam e=d ocker state= pre sen t"`
check if yum package is absent	`ansible all -m yum -a " nam e=i perf3 state= abs ent "`

get RHEL version	`cat /etc/r edh at- release`
get kernel version	`uname -r`
get cpu count	`cat /proc/ cpuinfo | grep processor | wc -l`
get processor model	`cat /proc/ cpuinfo | grep 'model name' | uniq`
get memory	`cat /proc/ meminfo |grep MemTotal`
get ip addresses	`ip r`
get all ip details	`ip a`
get list of logged in users	`users`
get free disk space	`df -h`
get disk usage details	`du -sh [path]`
get id of current user	`id`
get id of other user	`id userx`

TCP dump

get tcp dump	`tcpdump -i bond0.60 dst 137.10.10.10 and dst p`

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extend partition

RHEL 6	
check volume group	`vgdisplay vg_data`
volume group extend (if no free space)	`vgextend /dev/V olG roup00 /dev/sda3`
extend logical volume	`lvextend -L +2G /dev/m app er/ vg_ dat a-l v_ d ocker`
resize	`resize2fs /dev/m app er/ vg_ dat a-l v_d ocke r`
RHEL 7	
	`xfs_growfs /dev/m app er/ vg_ dat a-l v_d ock er`

Generic

Cancel	ctrl + c
Exit	ctrl + d
Clear screen	clear
Clear screen	ctrl + l

zip

zip a folder	`zip -r [outpu t.zip] [folder name]`
unzip a folder	`unzip [filename]`

tar

tar a folder	`tar -cvf [outpu t.tar] [/dirname]`
untar a file to diff folder	`tar -C [/myfo lder] -xvf [yourf ile.ta r]`
untar to current folder	`tar -xvf [yourf ile.tar]`
untar a .tar.gz file	`tar -zxvf [yourf ile.ta r.gz]`

iperf3

change host name

#method 1	
edit file hostname	`echo " gee kla b" > /etc/h ostname`
reboot server	`sudo reboot`
check hostname	`hostname`
#method 2	
check current hostname	`hostna mectl status`
update hostname	`hostna mectl set-ho stname geeklab` or `hos tna mectl set-ho stname " Geeks LAB"`
relogin and verify	hostnamectl

session timeout

open file	`sudo vi /etc/s sh/ ssh d_c onfig`
edit params	`Client Ali veI nterval` and `Client Ali veC ountMax`
reload sssh	`sudo systemctl reload sshd`

Timeout value = ClientAliveInterval * ClientAliveCountMax

password less login setup

install iperf3	`yum install iperf3`
run iperf server on default port 5201	`iperf3 -s -f K` (k, m, g for Kbits, Mbits, Gbits or K, M, G for KBytes, Mbytes, Gbytes)
run iperf server on specific port	`iperf3 -s -p 3000`
run iperf as daemon	`iperf3 -s -D > iperf3log`
run iperf client	`iperf3 -c 192.16 8.10.1 -f K`
run 2 parallel session	`iperf3 -c aedup1mst1 -f G -P 2`
run test in reverse direction	`iperf3 -c aedup1mst1 -f G -R`
run test in bi direction	`iperf3 -c aedup1mst1 -f G -d`
get server output in client	`iperf3 -c aedup1mst1 -f G --get- ser ver -outp ut`
set windos socket/b uffersize	`iperf3 -c 192.16 8.10.1 -f K -w 500K`

iPerf3 is a tool for active measurements of the maximum achievable bandwidth on IP networks. It supports tuning of various parameters related to timing, buffers and protocols (TCP, UDP, SCTP with IPv4 and IPv6). For each test it reports the bandwidth, loss, and other parameters.

create key in host machine	`ssh-keygen -t rsa`
Copy key to target	`ssh-co py-id [target]`

copy content from .ssh/id_rsa.pub to .ssh/authorized_keys

find

find file matching pattern	`find / -name pattern`
find files based on content	`grep -ir " pat ter n" *`

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stop kernel messages

open file	`sudo cat /etc/s ssd /ss sd.conf`
add in last line	`ad_gpo _ig nor e_u nre adable = T rue`
restart sssd	`sudo systemctl restart sssd`
reboot if still persists	`sudo reboot`

output formatting

capture pattern in output	`| grep [pattern]`
capture x lines after pattern	`| grep [pattern] -A [x]`
capture x lines before pattern	`| grep [pattern] -B [x]`
print only column x	`| awk '{print $[x]}'`
count output lines	`| wc -l`
grep curl output	`curl -v --silent https: //g oog le.c om:443 --stderr - | grep [patte rn]`

edit gateway

#temp	
delete existing gateway	`sudo route delete default gw 10.10.1 0.10 bond0.200`
add new gateway	`sudo route add default gw 137.10.1 0.10 bond0.60`
#permanent	
edit file	`sudo vi /etc/s ysc onf ig/ net wor k-s cri pts /if cfg -bo nd0.200`
restart network	`sudo /etc/i nit.d/ network restart`

kernel upgrade

create partition

create physical volume	`sudo pvcreate /dev/n vme0n1`
create volume group	`sudo vgcreate vg_data /dev/n vme0n1`
list volume group and check	`sudo vgs`
create logical volume	`sudo lvcreate -n lv_docker -L +100G vg_data`
list logical volume and check	`sudo lvs`
create a directory to map (if not exists)	`sudo mkdir /var/l ib/ docker`
check file system packages	`sudo ls -l /usr/s bin /mkfs.*`
	`sudo mkfs -t xfs /dev/m app er/ vg_ dat a-l`
add entry in /etc/fstab	`sudo sed -i '$a /dev/m app er/ vg_ dat a-l c/fstab`
mount	`sudo mount -a`
check if mounted	`sudo df -h`

delete partition

list volume group	`sudo vgs`
remove volume group	`sudo vgremove vg_data`
start disk utility	`sudo fdisk /dev/n vme0n1`
list partition	`p`
delete partition	`d`
save and exit	`w`

remove entries from /etc/fstab and unmount first.

go to yum folder	`cd /etc/y um.r epos.d`
create a bkup folder	`mkdir bkp1`
move all repos to it	'mv x.repo bkp1'
enable rhel 7 rpms	`subscr ipt ion -ma nager repos --enable rhel-7 -se rve r-rpms`
list available kernel	`yum list kernel`
install required kernel	`yum install kernel 3.10.0 -11 27.1 8.2.el7`
reboot	reboot