RHCSA Command Cheat Sheet (RHEL 9)

Basic Linux Commands

```
# Print current directory
pwd
                      # Change directory
cd /path/to/dir
ls -l / ls -a / ls -lh # List files (long, hidden, human-readable)
cp file1 file2
                     # Copy files
mv old new
                     # Rename or move
rm -rf file or dir # Delete file or directory
touch filename
                      # Create empty file
mkdir dirname
                     # Create directory
history
                      # Show command history
```

User & Group Management

```
useradd john  # Add user

passwd john  # Set user password

usermod -aG wheel john  # Add user to group

groupadd dev  # Create group

id john  # Check user's UID, GID, groups

chage -l john  # View password aging

chage -M 30 john  # Set max password age
```

File Permissions & Ownership

Package Management (DNF/YUM)

Service & Systemd Management

```
systemctl status sshd.service  # Check status
systemctl start|stop|restart sshd
systemctl enable|disable sshd  # Start on boot
systemctl is-enabled sshd  # Is it enabled?
systemctl list-units --type=service
```

Network Configuration (nmcli)

```
nmcli connection show nmcli device status
```

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```
nmcli con add con-name eth0 ifname eth0 type ethernet ip4 192.168.1.100/24 gw4 192.168.1.1 nmcli con mod eth0 ipv4.dns 8.8.8.8 nmcli con up eth0 hostnamectl set-hostname server1
```

Firewalld

```
firewall-cmd --state
firewall-cmd --list-all
firewall-cmd --add-service=http --permanent
firewall-cmd --reload
```

SELinux

Storage: Partitions & LVM

```
lsblk
                                # List block devices
fdisk /dev/sdb
                                # Partition disk (MBR)
parted /dev/sdb
                                # GPT disk
# Format and mount
mkfs.xfs /dev/sdb1
mount /dev/sdb1 /mnt
echo '/dev/sdb1 /mnt xfs defaults 0 0' >> /etc/fstab
# LVM
pvcreate /dev/sdb1
vgcreate myvg /dev/sdb1
lvcreate -L 1G -n mylv myvg
mkfs.xfs /dev/myvg/mylv
mount /dev/myvg/mylv /mnt
lvextend -L +500M /dev/myvg/mylv # Extend
xfs_growfs /mnt
```

Scheduled Tasks

```
crontab -e # Edit user cron
at 10:00 # Schedule one-time task
```

Boot & Target Management

```
systemctl get-default
```

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systemctl set-default multi-user.target
systemctl isolate multi-user.target
grub2-editenv list

Containers (Podman)

Troubleshooting

journalctl -xe # View system logs
dmesg # Kernel messages
ip a # Show IP addresses
ping google.com # Network check
df -h # Disk space
free -h # RAM usage