



Linux





- Mosh
- Supervisor Rocky Linux
- Rsyncd Rocky Linux
- SSH
- cURL

Mosh

Mosh  Mobile Shell  SSH

Mosh

Mosh 

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Mosh

1. Linux

```
# Ubuntu/Debian
sudo apt-get install mosh

# CentOS/RHEL
sudo yum install mosh

# Fedora
sudo dnf install mosh
```

2. macOS

```
brew install mosh
```

3. Windows



1.

```
mosh --ssh="ssh -J jump_user@jump_host" user@target_host
```

2.

```
#  tmux  screen  mosh  
mosh user@host -- tmux new -A -s session_name
```

3.

mosh-server

```
mosh --server="/usr/local/bin/mosh-server" user@host
```

Mosh SSH

- SSH TCP
 - Mosh UDP 60000-61000
- SSH
 - Mosh
- SSH
 - Mosh






Mosh UDP

```
#  UDP 60000-61000   
sudo ufw allow 60000:61000/udp
```




1.

```
#  mosh  
ssh user@host "which mosh-server"  
  
#  UDP   
telnet host 60000
```

2.

```
#  UTF-8   
mosh --ssh="ssh -o SendEnv=LC_*" user@host
```




3.

```
#   
mosh --ssh="ssh -C" user@host
```



Mosh

 SSH 

1.   
2.  





Mosh



```
mosh --help
```


Supervisor Rocky Linux



Supervisor 


Python 
Rocky Linux 

UNIX
Supervisor 



Supervisor

1. EPEL

```
sudo dnf install epel-release  
sudo dnf update
```

2. Supervisor

```
sudo dnf install supervisor
```

3.

```
sudo systemctl enable supervisord  
sudo systemctl start supervisord
```

4.

```
sudo supervisorctl status
```



配置项	默认值
autostart	Supervisor
autorestart	(true/false/unexpected)
startretries	
stderr_logfile	
stdout_logfile	
environment	

Supervisor

1. 配置

```
sudo supervisorctl reread
sudo supervisorctl update
```

2. 操作

```
# 启动
sudo supervisorctl start myapp

# 停止
sudo supervisorctl stop myapp

# 重启
sudo supervisorctl restart myapp

# 查看状态
sudo supervisorctl status

# 查看指定应用状态
sudo supervisorctl status myapp
```

3. 配置

Rsyncd on Rocky Linux



Rsyncd on Rocky Linux 8/9
rsync installed
rsyncd installed

Rocky

Installing rsyncd

1. Install rsync

```
sudo dnf install rsync
```

2. Verify installation

```
rsync --version
```

Configuring rsyncd

1. Edit configuration file

```
sudo vi /etc/rsyncd.conf
```

2. Set permissions

```
# Set permissions  
uid = nobody  
gid = nobody
```

```
use chroot = yes
max connections = 4
pid file = /var/run/rsyncd.pid
lock file = /var/run/rsync.lock
log file = /var/log/rsyncd.log
timeout = 300

# [ ] [ ] [ ] [ ]
[backup]
  path = /data/backup
  comment = Backup Directory
  read only = no
  list = yes
  auth users = rsyncuser
  secrets file = /etc/rsyncd.secrets
  hosts allow = 192.168.1.0/24
```

3. [] [] [] [] [] []

```
sudo vi /etc/rsyncd.secrets
```

[] [] [] []

```
[ ] [ ] : [ ]
```

[] []

```
rsyncuser:mypassword123
```

[] [] [] [] [] []

```
sudo chmod 600 /etc/rsyncd.secrets
sudo chown root:root /etc/rsyncd.secrets
```

4. [] [] [] [] [] []

```
sudo mkdir -p /data/backup
sudo chown nobody:nobody /data/backup
```



rsyncd

1.

```
sudo systemctl enable rsyncd  
sudo systemctl start rsyncd
```

2.

```
sudo systemctl status rsyncd
```

3.

```
#  873  
sudo firewall-cmd --add-port=873/tcp --permanent  
sudo firewall-cmd --reload
```

4. SELinux

```
sudo setsebool -P rsync_full_access=1
```



1.

```
rsync -avz /local/path/ rsyncuser@server::backup
```

2.

```
rsync -avz rsyncuser@server::backup /local/path/
```



```
ssh-keygen -t rsa -b 4096 -C "your_email@example.com"
```

- `-t` `rsa` (rsa, ed25519)
- `-b` `4096`
- `-C` `"your_email@example.com"`

2. `ssh-copy-id`

```
ssh-copy-id username@hostname
```

```
ssh-copy-id
```

```
~/.ssh/id_rsa.pub
```

```
ssh-copy-id
```

```
~/.ssh/authorized_keys
```

```
ssh-copy-id
```

```
ssh-copy-id
```

```
ssh-copy-id
```

```
~/.ssh/config
```

```
ssh-copy-id
```

```
Host myserver
```

```
HostName example.com
```

```
User username
```

```
Port 2222
```

```
IdentityFile ~/.ssh/id_rsa
```

```
ssh-copy-id
```

```
ssh myserver
```

```
ssh-copy-id
```

Option	Description
<code>-v</code>	Verbose mode (options: <code>-vv</code> , <code>-vvv</code>)
<code>-X</code>	Enable X11 forwarding
<code>-L</code>	Local forwarding
<code>-R</code>	Remote forwarding
<code>-D</code>	Dynamic forwarding (SOCKS proxy)

□□	□□
-N	□□□□□□
-f	□□□□

□□□□□□

1. □□□□□□

```
ssh -L local_port:remote_host:remote_port username@hostname
```

2. □□□□□□

```
ssh -R remote_port:local_host:local_port username@hostname
```

□□□□

1. □□ scp □□□□

□□□□□□

```
scp local_file username@hostname:remote_path
```

□□□□□□

```
scp username@hostname:remote_file local_path
```

2. □□ sftp □□□□□□

```
sftp username@hostname
```



1. root (PermitRootLogin no in /etc/ssh/sshd_config)
2.
3. SSH
4. (AllowUsers in sshd_config)
5. fail2ban



1.

```
systemctl status sshd
```




2.

```
journalctl -u sshd
```

3.

```
ssh -v username@hostname
```

cURL




cURL (Client URL) 
 API 

HTTP/HTTPS/FTP/SFTP

1.

GET

```
curl https://example.com
```

- 
-  

```
curl "https://example.com/api?param1=value1&param2=value2"
```

POST

```
curl -X POST https://example.com/api \  
-d "key1=value1&key2=value2"
```

-  **JSON**  


```
curl -X POST https://example.com/api \  
-H "Content-Type: application/json" \  
-d '{"key1":"value1", "key2":"value2"}'
```

2.



Header

```
curl -H "Authorization: Bearer token123" \  
-H "User-Agent: MyApp/1.0" \  
https://example.com/api
```




-  **Headers** 

```
curl -I https://example.com #  Headers
```



3. &



```
curl -X POST https://example.com/upload \  
-F "file=@/path/to/file.txt" \  
-F "name=myfile"
```

-  `-F`  `multipart/form-data` 



```
curl -O https://example.com/file.zip #   
curl -o custom_name.zip https://example.com/file.zip # 
```

4. & Cookies

Basic Auth

```
curl -u username:password https://example.com
```

- `curl -u username https://example.com`

```
curl -u username https://example.com
```

Cookie

```
curl --cookie "name=value" https://example.com
```

- `curl -c cookies.txt https://example.com/login`

```
curl -c cookies.txt https://example.com/login
```

- `curl -b cookies.txt https://example.com/dashboard`

```
curl -b cookies.txt https://example.com/dashboard
```

5. &

```
curl -v https://example.com # Headers
```

```
curl -v https://example.com # Headers  
curl --trace-ascii debug.txt https://example.com # Headers
```

```
curl -L https://example.com # Headers
```

```
curl -L https://example.com # Headers
```

```
curl --limit-rate 100K -O https://example.com/largefile.zip
```

```
curl --limit-rate 100K -O https://example.com/largefile.zip
```

- `100K` = 100KB/s `M` (MB/s) `G` (GB/s)

6. [] [] [] []

HTTP/HTTPS [] []

```
curl -x http://proxy-server:8080 https://example.com
```

- [] [] [] [] [] [] []

```
curl -x http://user:pass@proxy-server:8080 https://example.com
```

SOCKS5 [] []

```
curl --socks5 127.0.0.1:1080 https://example.com
```

7. [] [] [] [] [] [] [] []

Bash []

```
response=$(curl -s https://example.com/api)
echo "$response"
```

- -s [] [] [] [] [] [] [] [] [] [] []

8. [] [] [] [] [] []

[] [] API [] [] [] [] []

```
curl -s -o /dev/null -w "%{http_code}" https://example.com/api
```

- -o /dev/null [] [] [] []
- -w "%{http_code}" [] [] HTTP [] []



API



```
curl -w "DNS: %{time_namelookup} | Connect: %{time_connect} | Total: %{time_total}\n" \
-o /dev/null -s https://example.com
```



Icon	Command
GET Icon	curl https://example.com
POST Icon	curl -X POST -d "data" https://example.com/api
JSON Icon	curl -H "Content-Type: application/json" -d '{"key":"value"}'
Icon	curl -O https://example.com/file.zip
Icon	curl -F "file=@localfile.txt" https://example.com/upload
Icon	curl -u user:pass https://example.com
Icon	curl -x http://proxy:8080 https://example.com
Icon	curl -v https://example.com

cURL

API