

# SOP -pssh(parallel-ssh)

---

**AGENDA** Automating commands to Multiple Servers from one local machine for

->installing/up-down-grading/patching/version checking /

**REFERENCE**

<https://www.tecmint.com/execute-commands-on-multiple-linux-servers-using-pssh/>

---

**Step 1-> Install pssh on Local machine**

sudo apt-get install pssh (Linux)

or

brew install pssh (Mac OS x)

---

**Step 2-> Add the server name(for identification) /and add details to connect the server**

\$ vi ~/.ssh/config

Add public(key) or pem path by Tag-> IdentityFile (IMPORTANT)

Check & Add User Name or Server by Tag ->User

Add HostName or public ip of server

```
Host server1
  HostName ec2-3-145-106-208.us-east-2.compute.amazonaws.com
  IdentityFile /Users/vaibhav/Downloads/Ec2-Instance.pem
  User ec2-user

Host server2
  HostName ec2-3-133-137-144.us-east-2.compute.amazonaws.com
  IdentityFile /Users/vaibhav/Downloads/Ec2-Instance.pem
  User ec2-user
```

**Step 3->** create a host.txt file and add alias names for hostnames



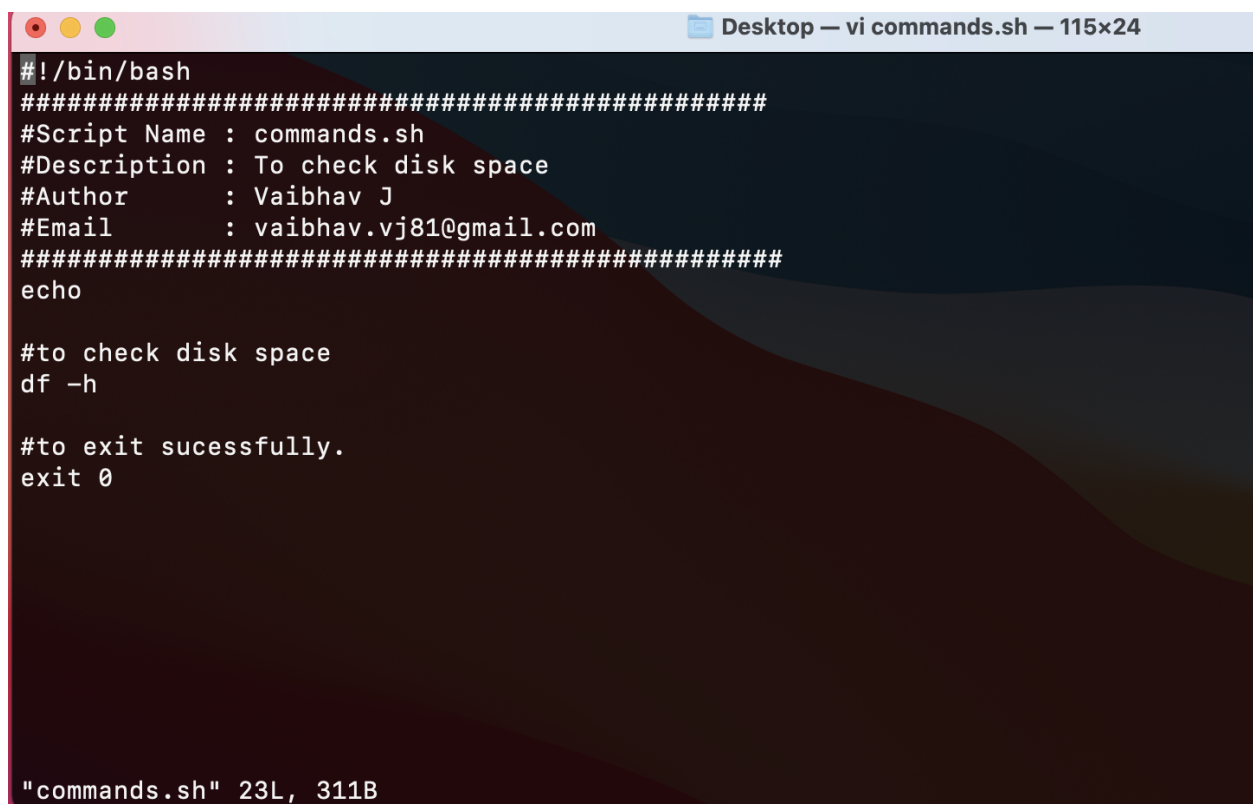
```
server1
server2
```

 **hosts.txt**

```
touch host.txt
```

#### **Step 4-> Create a Bash Script for performing the automated tasks on multiple servers**

```
vi commands.sh
```



```
#!/bin/bash
#####
#Script Name : commands.sh
#Description : To check disk space
#Author      : Vaibhav J
#Email       : vaibhav.vj81@gmail.com
#####
echo

#to check disk space
df -h

#to exit sucessfully.
exit 0

"commands.sh" 23L, 311B
```

```
:wq!
```

#### **Step 5-> run a pps command as follows:**

```

vaibhav@vaibhavs-MacBook-Air Desktop % pssh -h hosts.txt -P -I<./commands.sh
server1: b'\nFilesystem      Size  Used Avail Use% Mounted on\ndevtmpfs      474M    0 474M   0% /dev\nntmpfs      483M    0 483M   0% /sys/fs/cgroup\n/dev/xvda1    8.0G  1.6G  6.4G   20% /run/user/1000\n'
[1] 16:53:18 [SUCCESS] server1
server2: b'\nFilesystem      Size  Used Avail Use% Mounted on\ndevtmpfs      474M    0 474M   0% /dev\nntmpfs      483M    0 483M   0% /sys/fs/cgroup\n/dev/xvda1    8.0G  1.6G  6.4G   20% /run/user/1000\n'
[2] 16:53:19 [SUCCESS] server2
vaibhav@vaibhavs-MacBook-Air Desktop %

```

Meaning of the flags used in the above command:

- -h - reads the hosts file.
- -P - tells pssh to display output as it arrives.
- -I - reads input and sends to each ssh process.