Setup

Server Setup

- Login to the server via SSH as root
- Install sudo, create the main user, and add him to the sudoers group

```
# apt install sudo
# adduser <user>
# vi /etc/group (add <user> to line "sudo:x:27:<user>")
```

- (VPS) change the machine name:

```
sudo edit /etc/hostname
sudo edit /etc/hosts
```

- enable *force_color_prompt=yes* in file `~/.bashrc`
- copy `/home/user/.bashrc` to `/root` and modify PS1 prompt color (*32m –> 31m*)

Tuning

- Swap behavior

Security

- Configure SSH Access
- Install UFW Firewall
- Disable root login by changing file `/etc/passwd` from line 1 to line 2

```
root:x:0:0:root:/root:/bin/bash
root:x:0:0:root:/root:/sbin/nologin
```

Install and configure packages

- Additional packages

```
$ sudo apt update
$ sudo apt install vim
$ sudo apt install zip
$ sudo apt install rename
$ sudo apt install rsync
$ sudo apt install curl
$ sudo apt install hping3
```

```
$ sudo apt install openjdk-17-jre openjdk-17-jdk
```

- Change visudo editor

```
$ sudo update-alternatives --config editor
```

- Check install

```
apt-cache policy <packagename>
```

Upgrade linux headers

- Check remaining space on the boot partition with:

```
df -h | grep "^/dev/"
```

- Remove outdated kernel packages:

```
sudo apt-get autoremove
```

- First check your kernel version, so you won't delete the in-use kernel image, running:

```
uname -r
```

- Delete the kernels you don't want/need anymore by running this:

```
sudo apt-get remove linux-image-VERSION
```

- Update grub kernel list:

```
sudo update-grub
```

System Startup

Debian 11 uses Systemd, not SysV, that's why your commands in `/etc/rc.local` file would not run at system boot time. This guide explains how to enable `/etc/rc.local` script to run on system startup.

1. Create a rc.local unit file, follow Services - rc.local
2. Create file rc.local in /etc with the following content:

```
vim /etc/rc.local
#!/bin/sh -e
#
# rc.local
#
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
```

```
# value on error.
#
# In order to enable or disable this script just change the execution
# bits.
#
# By default this script does nothing.
exit 0
```

3. Add execute permissions and start daemon:

```
chmod +x /etc/rc.local
systemctl daemon-reload
systemctl start rc-local
systemctl status rc-local

● rc-local.service - /etc/rc.local Compatibility
   Loaded: loaded (/lib/systemd/system/rc-local.service; static; vendor
preset:
  Drop-In: /lib/systemd/system/rc-local.service.d
           └─debian.conf
   Active: active (exited) since Sun 2019-05-05 10:55:29 +07; 11min ago
  Process: 1443 ExecStart=/etc/rc.local start (code=exited,
status=0/SUCCESS)
    Tasks: 0 (limit: 4915)
   CGroup: /system.slice/rc-local.service
```

- How to Enable /etc/rc.local with Systemd
- Where is rc.local in Debian 9 (Debian Stretch)

System Shutdown

1. Put a symbolic link to the script to be run at shutdown into /lib/systemd/system-shutdown

- How to execute scripts in /usr/lib/systemd/system-shutdown/ at reboot or shutdown?
- How to run commands at shutdown on Linux

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