Create a Startup Unit

First, let's get our 'service'

```
cp /scripts/carpald.sh ~/
```

Use nano to take a look at our carpald 'service' (**nano carpald.sh**):

```
#!/bin/sh
#loop forever
while :
do
# now sleep for 30 seconds
sleep 30
# after wakeup send message to all users
wall <<EOF
Ok people! Time to take a break before
you get carpal tunnel syndrome!
EOF
done
```

We want to make it executable and move it to a proper system directory:

```
chmod 755 carpald.sh
sudo cp carpald.sh /usr/local/sbin/carpald.sh
```

Execute it to test:

```
sudo carpald.sh
```

In 30 seconds you should get this message:

```
Broadcast message from root@cushing-dave (somewhere) (Fri Mar  9
19:54:55 2018)

Ok people! Time to take a break before
you get carpal tunnel syndrome!
```

Press CTRL-C to break out of the script (because it's really annoying)

Create a Startup Unit

And now let's create the service systemd file. Notice that we create it in the /etc/systemd/system directory.

```
sudo nano /etc/systemd/system/carpal.service
```

```
[Unit]
Description = Time to Get Moving!
After = network.target
[Service]
ExecStart = /usr/local/sbin/carpald.sh
[Install]
WantedBy = multi-user.target
```

Now add it to the system with systemctl:

```
sudo systemctl enable carpal.service
```

```
Created symlink from
/etc/systemd/system/multi-user.target.wants/carpal.service to
/etc/systemd/system/carpal.service.
```

Let's check that symlink:

```
ls -l /etc/systemd/system/multi-user.target.wants/carpal.service
```

```
lrwxrwxrwx 1 root root 34 Mar  9 19:40
/etc/systemd/system/multi-user.target.wants/carpal.service ->
/etc/systemd/system/carpal.service
```

Let's check the status of our service:

```
sudo systemctl status carpal.service
```

```
● carpal.service - Time to Get Moving!
   Loaded: loaded (/etc/systemd/system/carpal.service; enabled;
vendor preset: enabled)
   Active: inactive (dead)
```

Create a Startup Unit

Well, we can see it is enabled but it isn't running. Let's start it and re-check its status:

```
sudo systemctl start carpal.service
sudo systemctl status carpal.service
```

```
● carpal.service - Time to Get Moving!
   Loaded: loaded (/etc/systemd/system/carpal.service; enabled;
vendor preset: enabled)
   Active: active (running) since Fri 2018-03-09 19:45:55 UTC;
1min 22s ago
 Main PID: 4746 (carpald.sh)
    Tasks: 2
   Memory: 536.0K
      CPU: 6ms
   CGroup: /system.slice/carpal.service
           ├─4746 /bin/sh /usr/s
bin/carpald.sh
           └─4772 sleep 30
```

w00t! Success!

Create a Startup Unit

To stop the unit:

```
sudo systemctl stop carpal.service
sudo systemctl status carpal.service
```

```
● carpal.service - Time to Get Moving!
   Loaded: loaded (/etc/systemd/system/carpal.service; enabled;
vendor preset: enabled)
   Active: inactive (dead) since Fri 2018-03-09 19:56:12 UTC; 6s
ago
  Process: 4746 ExecStart=/usr/bin/carpald.sh (code=killed,
signal=TERM)
 Main PID: 4746 (code=killed, signal=TERM
```

To disable the unit from starting at boot:

```
sudo systemctl disable carpal.service
```

Removed symlink /etc/systemd/system/multi-user.target.wants/carpal.service.

And check its status:

```
sudo systemctl status carpal.service
```

```
● carpal.service - Time to Get Moving!
   Loaded: loaded (/etc/systemd/system/carpal.service; disabled;
vendor preset: enabled)
   Active: inactive (dead)
```