

# Auto-start at boot

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1. Set up auto-startservice
2. Add to rc.local service

## 1. Set up auto-startservice

1. Create a startup script

Use any text editor to create a new startup script in the `/etc/init.d` directory. Assume it is named `your_script_name`. Here is the sample script for reference.

```
#!/bin/bash

### BEGIN INIT INFO
# Provides:          your_service_name
# Required-Start:    $all
# Required-Stop:
# Default-Start:     2 3 4 5
# Default-Stop:      0 1 6
# Short-Description: Start your_service_name at boot time
# Description:       Enable service provided by your_service_name
### END INIT INFO

/path/to/your/program &

exit 0
```

2. Set the startup script to have executable permissions.

```
sudo chmod +x /etc/init.d/your_script_name
```

3. Use the update-rc.d command to add the script to the system startup item.

```
sudo update-rc.d your_script_name defaults
```

4. Use the systemctl command to enable automatic startup.

```
sudo systemctl enable your_script_name
```

5. Restart the development board to verify whether the self-start service program is running normally.

```
systemctl status your_script_name.service
```

```
Terminal - sunrise@ubuntu: ~
File Edit View Terminal Tabs Help
sunrise@ubuntu:~$ systemctl status test.service
● test.service - LSB: Start your_service_name at boot time
   Loaded: loaded (/etc/init.d/test; generated)
   Active: active (exited) since Thu 2024-05-23 15:56:36 CST; 1min
  12s ago
     Docs: man:systemd-sysv-generator(8)
    Tasks: 0 (limit: 1551)
   Memory: 0B
    CGroup: /system.slice/test.service
```

## 2. Add to rc.local service

rc.local is a system service that is used to automatically execute some scripts or commands when the system starts.

This service will be automatically called when the system starts, and execute some user-specified scripts or commands after the system starts, so as to perform custom configuration or operations when the system starts.

In early Linux distributions, rc.local was the last service that ran by default during the system startup process. With the popularity of systemd, rc.local is regarded as a legacy system service.

It is implemented by adding a startup command at the end of the `sudo vim /etc/rc.local` file, for example.

```
#!/bin/bash -e
#
# rc.local
#re
# 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.

# Insert what you need

exit 0
```