

# RHEL: Force system to prompt for password in Single User mode

Article Number: 138 | Rating: Unrated | Last Updated: Sat, Jun 2, 2018 9:06 AM

## RHEL: Force system to prompt for password in Single User mode

```
# Tested on RHEL 5, 6 & 7

# Due to security reasons, one may want to force system to prompt for
# root password even
# in Single User mode

# By default, system doesn't ask for password and we are given root
# shell directly. Indeed,
# usually Single User mode is used to reset root password in case we
# forgot it.

# Note that after modifying configuration, in case of forgotten root
# password, you'll have
# to boot the system in rescue mode to revert configuration in order
# to be able to change
# root password in Single User mode.

# RHEL 5
# -----
# -----
```

```
# To force users to enter password in Single User mode, add following line to /etc/inittab:
```

```
~:S:respawn:/sbin/sulogin
```

```
# The changes to this file takes effect after a system reboot
```

```
# To make init re-read the /etc/inittab without rebooting the system, type the command
```

```
/sbin/init q
```

```
# RHEL 6
```

```
# -----  
-----
```

```
# Edit /etc/inittab and add "su:S:wait:/sbin/sulogin" before 'initdefault' line:
```

```
vi /etc/inittab
```

```
[...]
```

```
su:S:wait:/sbin/sulogin
```

```
id:3:initdefault:
```

```
# Edit /etc/sysconfig/init and replace "SINGLE=/sbin/sushell" with "SINGLE=/sbin/sulogin":
```

```
vi /etc/sysconfig/init
```

```
[...]
```

```
# Set to '/sbin/sulogin' to prompt for password on single-user mode
```

```
# Set to '/sbin/sushell' otherwise
```

```
SINGLE=/sbin/sulogin
```

```
# RHEL 7
# -----

# By default, Single User mode is password protected by the root
password on RHEL 7:

cat /usr/lib/systemd/system/rescue.service
[...]
```

```
[Service]
Environment=HOME=/root
WorkingDirectory=/root
ExecStartPre=-/bin/plymouth quit
ExecStartPre=-/bin/echo -e 'Welcome to emergency mode! After
logging in, type [...]'
ExecStart=-/bin/sh -c "/usr/sbin/sulogin; /usr/bin/systemctl
--fail --no-block default" <---
Type=idle
StandardInput=tty-force
StandardOutput=inherit
StandardError=inherit
KillMode=process
IgnoreSIGPIPE=no
SendSIGHUP=yes
```

Posted - Sat, Jun 2, 2018 9:06 AM. This article has been viewed 7656 times.

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