

How to stop / start services in boot time and install / remove / update SuSE SLES (Suse Enterprise Linux Server)?

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If you're long time Linux sysadmin but you haven't [need to adminster SuSE Linux](#) still and **your company buys other business / company which already owns some SuSE servers and you need to deal with them**, even though you're just **starting up with SuSE Linux** but you had already plenty of

experience with other Linux distributions **Fedora / RHEL / CentOS**, don't worry set up / stop / start a service (daemon) to boot on Linux boot time is just the **same as any other Redhat (RPM) Linux based distributions**. it is done by multiple shell scripts located in **/etc/init.d** directory which can be manually stopped start by issuing the script with an argument e.g

```
suse:/etc/init.d# cd /etc/init.d/  
suse:/etc/init.d# ./snmpd  
Usage: ./snmpd {start|stop|try-restart|restart|force-reload|reload|status}
```

To configure how each of the **/etc/init.d/** existent service boots you can the use good

old **/sbin/chkconfig** (a script written in perl) - which you already know from **Fedora / CentOS and**

other RPM distros.

1. Get a list of all enabled on boot SuSE Linux services

To get a list of all set up to run on boot SuSE server services with chkconfig:

```
suse:/etc/init.d# /sbin/chkconfig --list
```

```
Makefile          0:off 1:off 2:off 3:off 4:off 5:off 6:off
OVCtrl            0:off 1:off 2:off 3:on  4:on  5:on  6:off
SuSEfirewall2_init 0:off 1:off 2:off 3:off 4:off 5:off 6:off
SuSEfirewall2_setup 0:off 1:off 2:off 3:off 4:off 5:off 6:off
Tivoli_lcfld1     0:off 1:off 2:on  3:on  4:off 5:on  6:off
Tivoli_lcfld1.bkp 0:off 1:off 2:off 3:off 4:off 5:off 6:off
aaeventd         0:off 1:off 2:off 3:off 4:off 5:off 6:off
acpid             0:off 1:off 2:on  3:on  4:off 5:on  6:off
alsasound        0:off 1:off 2:on  3:on  4:off 5:on  6:off
apache2-eis      0:off 1:off 2:off 3:off 4:off 5:off 6:off
atd              0:off 1:off 2:off 3:off 4:off 5:off 6:off
auditd           0:off 1:off 2:off 3:on  4:off 5:on  6:off
autofs           0:off 1:off 2:off 3:off 4:off 5:off 6:off
autoyast         0:off 1:off 2:off 3:off 4:off 5:off 6:off
boot.apparmor    0:off 1:off 2:on  3:on  4:off 5:on  6:off B:on
cron             0:off 1:off 2:on  3:on  4:off 5:on  6:off
dbus             0:off 1:off 2:off 3:on  4:off 5:on  6:off
earlykbd        0:off 1:off 2:off 3:off 4:off 5:on  6:off
earlysyslog     0:off 1:off 2:off 3:off 4:off 5:on  6:off
esound          0:off 1:off 2:off 3:off 4:off 5:off 6:off
evms            0:off 1:off 2:off 3:off 4:off 5:off 6:off
fbset           0:off 1:on  2:on  3:on  4:off 5:on  6:off
firstboot       0:off 1:off 2:off 3:off 4:off 5:off 6:off
```

fixperms	0:off 1:off 2:off 3:off 4:off 5:off 6:off
gpm	0:off 1:off 2:off 3:off 4:off 5:off 6:off
gssd	0:off 1:off 2:off 3:off 4:off 5:off 6:off
gwproxy	0:off 1:off 2:on 3:on 4:off 5:on 6:off
haldaemon	0:off 1:off 2:off 3:on 4:off 5:on 6:off
hp-health	0:off 1:off 2:on 3:on 4:on 5:on 6:off
hp-ilo	0:off 1:off 2:off 3:on 4:off 5:on 6:off
hp-snmp-agents	0:off 1:off 2:on 3:on 4:on 5:on 6:off
hpsmhd	0:off 1:off 2:off 3:on 4:on 5:on 6:off
idmapd	0:off 1:off 2:off 3:off 4:off 5:off 6:off
ipmi	0:off 1:off 2:off 3:off 4:off 5:off 6:off
ipmi.hp	0:off 1:off 2:off 3:off 4:off 5:off 6:off
irq_balancer	0:off 1:on 2:on 3:on 4:off 5:on 6:off
itcaIBMTivoliCommonAgent0	0:off 1:off 2:on 3:on 4:off 5:on 6:off
jboss	0:off 1:off 2:off 3:off 4:off 5:off 6:off
joystick	0:off 1:off 2:off 3:off 4:off 5:off 6:off
kadmind	0:off 1:off 2:off 3:off 4:off 5:off 6:off
kbd	0:off 1:on 2:on 3:on 4:off 5:on 6:off S:on
kdump	0:off 1:off 2:off 3:off 4:off 5:off 6:off
kpropd	0:off 1:off 2:off 3:off 4:off 5:off 6:off
krb524d	0:off 1:off 2:off 3:off 4:off 5:off 6:off
krb5kdc	0:off 1:off 2:off 3:off 4:off 5:off 6:off
ldap	0:off 1:off 2:off 3:on 4:off 5:on 6:off
lm_sensors	0:off 1:off 2:off 3:off 4:off 5:off 6:off
lw_agt	0:off 1:off 2:off 3:off 4:off 5:off 6:off
mdadm	0:off 1:off 2:off 3:off 4:off 5:off 6:off
microcode	0:off 1:on 2:on 3:on 4:off 5:on 6:off S:on
multipathd	0:off 1:off 2:off 3:off 4:off 5:off 6:off
mysql	0:off 1:off 2:off 3:off 4:off 5:off 6:off
network	0:off 1:off 2:on 3:on 4:off 5:on 6:off
nfs	0:off 1:off 2:off 3:on 4:off 5:on 6:off
nfsboot	0:off 1:off 2:off 3:on 4:off 5:on 6:off
nfsserver	0:off 1:off 2:off 3:off 4:off 5:off 6:off
nohup.out	0:off 1:off 2:off 3:off 4:off 5:off 6:off
novell-zmd	0:off 1:off 2:off 3:off 4:off 5:off 6:off
nscd	0:off 1:off 2:off 3:on 4:off 5:on 6:off
ntp	0:off 1:off 2:on 3:on 4:off 5:on 6:off
openct	0:off 1:off 2:off 3:off 4:off 5:off 6:off
opsware-agent	0:off 1:off 2:off 3:on 4:on 5:on 6:off
osddownt	0:off 1:off 2:off 3:on 4:on 5:on 6:off
ovpa	0:on 1:off 2:on 3:on 4:off 5:on 6:off
pcscd	0:off 1:off 2:off 3:off 4:off 5:off 6:off
pctl	0:off 1:off 2:on 3:on 4:off 5:on 6:off
portmap	0:off 1:off 2:off 3:on 4:off 5:on 6:off
postfix	0:off 1:off 2:off 3:on 4:off 5:on 6:off
powerd	0:off 1:off 2:off 3:off 4:off 5:off 6:off

```
powersaved      0:off 1:off 2:off 3:off 4:off 5:off 6:off
random          0:off 1:off 2:on  3:on  4:off 5:on  6:off
raw             0:off 1:off 2:off 3:off 4:off 5:off 6:off
resmgr          0:off 1:off 2:on  3:on  4:off 5:on  6:off
rpasswdd        0:off 1:off 2:off 3:off 4:off 5:off 6:off
rpmconfigcheck 0:off 1:off 2:off 3:off 4:off 5:off 6:off
rrdtools        0:off 1:off 2:off 3:on  4:off 5:on  6:off
rsyncd          0:off 1:off 2:off 3:off 4:off 5:off 6:off
saslauthd       0:off 1:off 2:off 3:off 4:off 5:off 6:off
skeleton.compat 0:off 1:off 2:off 3:off 4:off 5:off 6:off
slurpd          0:off 1:off 2:off 3:off 4:off 5:off 6:off
smartd          0:off 1:off 2:off 3:off 4:off 5:off 6:off
smpppd          0:off 1:off 2:off 3:off 4:off 5:off 6:off
snmpd           0:off 1:off 2:on  3:on  4:off 5:on  6:off
splash          0:off 1:on  2:on  3:on  4:off 5:on  6:off S:on
splash_early    0:off 1:off 2:on  3:on  4:off 5:on  6:off
sshd            0:off 1:off 2:off 3:on  4:off 5:on  6:off
suseRegister    0:off 1:off 2:off 3:off 4:off 5:off 6:off
svcgssd         0:off 1:off 2:off 3:off 4:off 5:off 6:off
syslog          0:off 1:off 2:on  3:on  4:off 5:on  6:off
sysstat         0:off 1:off 2:off 3:off 4:off 5:off 6:off
tecad_logfile   0:off 1:off 2:off 3:on  4:off 5:on  6:off
tomcat55        0:off 1:off 2:off 3:off 4:off 5:off 6:off
tomcat_eis      0:off 1:off 2:off 3:off 4:off 5:off 6:off
tpmgwproxy.sh   0:off 1:off 2:on  3:on  4:off 5:on  6:off
uc4_smgrp       0:off 1:off 2:off 3:on  4:off 5:on  6:off
uc4_smgrq1      0:off 1:off 2:off 3:on  4:off 5:on  6:off
xbis-ldap-tool  0:off 1:off 2:off 3:off 4:off 5:off 6:off
xdm             0:off 1:off 2:off 3:off 4:off 5:on  6:off
xfs             0:off 1:off 2:off 3:off 4:off 5:off 6:off
xinetd          0:off 1:off 2:off 3:off 4:off 5:off 6:off
ypbind          0:off 1:off 2:off 3:off 4:off 5:off 6:off
xinetd based services:
  chargen:      off
  chargen-udp:  off
  daytime:      off
  daytime-udp:  off
  echo:         off
  echo-udp:     off
  netstat:      off
  rsync:        off
  servers:      off
  services:     off
  sypstat:      off
  time:         off
  time-udp:     off
```

2. Stop / Disable a service in all Linux boot runlevels or in a concrete one

As you should know already **in Linux there are multiple runlevels in which server can boot, under normal circumstances SuSE servers (as of time of writting) this article boots into *runlevel 3*, if you'r'e unsure about the runlevel you can check it with *runlevel* command:**

```
suse:/etc/init.d# /sbin/runlevel  
N 3
```

To stop a service on all possible boot runlevels - 1,2,3,4,5

```
suse:/etc/init.d# /sbin/chkconfig xinetd off
```

If you want to *stop xinetd or any other service just for certain runlevels (lets say run-level 3,4,5):*

```
suse:/etc/init.d# chkconfig --level 345 xinetd off
```

3. Start / Enable a service for a runlevel or all boot levels 1,2,3,4,5

To disable **boot.apparmor on all boot runlevels** - kernel enhancement that enabled to set a limited set of resources for services (*good for tightened security, but often creating issues with some external server*)

configured services).

```
suse:/etc/init.d# chkconfig boot.apparmor off
```

Or for single boot modes again with **--level** option:

```
suse:/etc/init.d# chkconfig --level 345 boot.apparmor off
```

```
suse:/etc/init.d# chkconfig xfs off
```

4. SuSE Linux Package management zypper console tool

If you **need / wonder how to install / remove / update a service on a SuSE Linux server**, take a look at **zypper** tool.

zypper is *a command-line interface to ZYPP system management library*.

To install a package / service with zypper the syntax is very much like yum, for example:

```
suse: ~# zypper install vim -emacs
```

will remove emacs editor and install Vi Improved

The equivalent of **yum -y** Fedora command in *SuSE Enterprise Linux* is **--non-interactive** option

```
suse:~# zypper --non-interactive install
```

In SuSE it is *pretty annoying when you're asked for accepting licensing on some proprietary (external vendor) non-free software packages to get around this:*

```
suse:~# zypper patch --auto-agree-with-licenses
```

To keep the SuSE server up2date - i.e. SLES equivalent of CentOS's yum update && yum upgrade

```
suse:~# zypper list-patches
```

Loading repository data...

Reading installed packages...

Repository	Name	Version	Category	Status
------------	------	---------	----------	--------

-----+-----+-----+-----+-----

Updates for openSUSE 11.3	11.3-1.82	lxsession	2776	security needed
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```
suse:~# zypper patch-check
Loading repository data...
Reading installed packages...
5 patches needed (1 security patch)
```

To look for a certain package with Zypper (equivalent of *yum search packagename*)

```
suse: ~# zypper search apache
```

To verify whether an RPM installed package dependencies are OK:

```
suse:~# zypper verify
```

The equivalent of Fedora yum update command in SuSE (SLES) are:

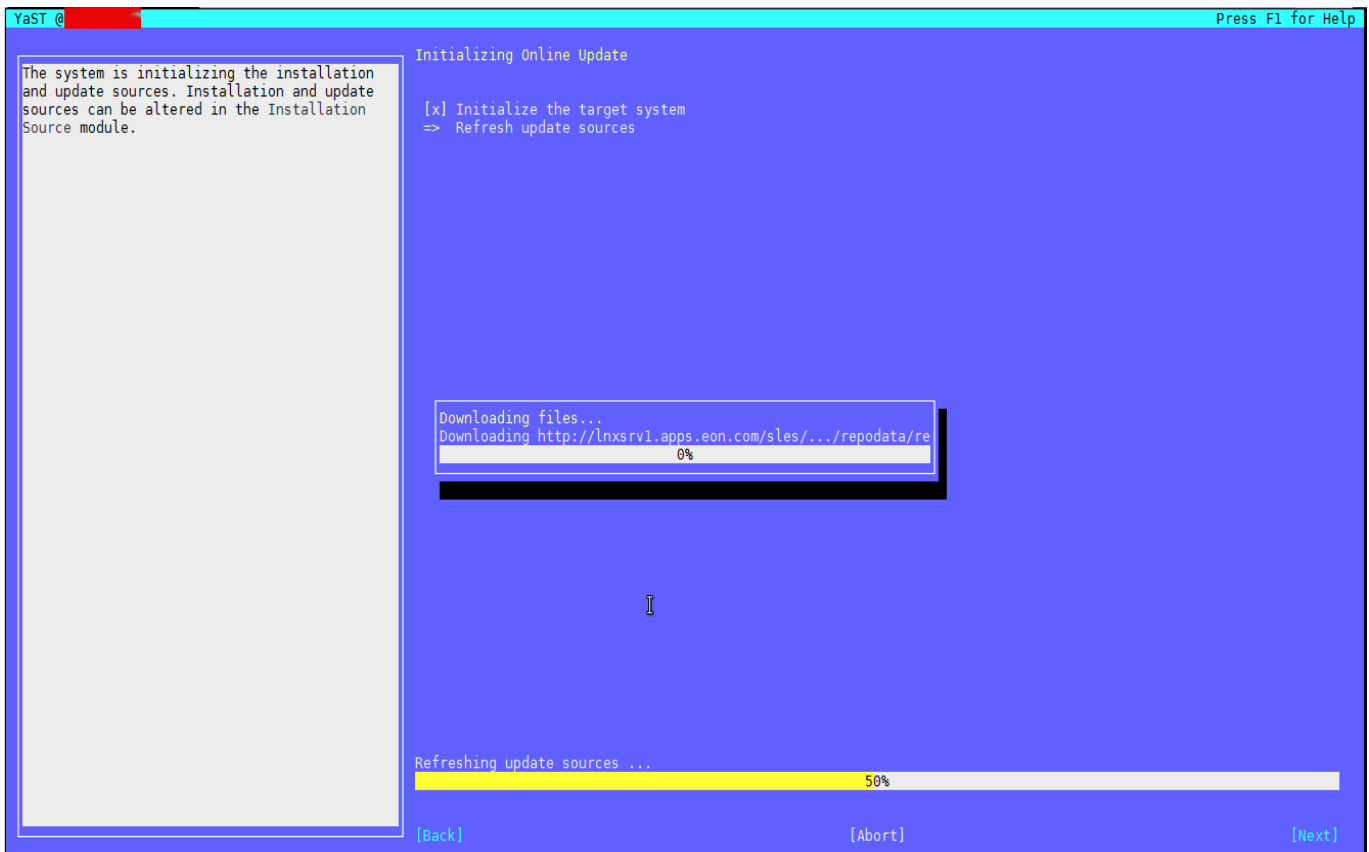
```
suse:~# zypper refresh
```

To force a complete refresh and rebuild of the database, including a forced download of raw metadata.

```
suse:~# zypper refresh -fdb
```


For people that are used to ncurses (midnight commander) like text interface you can also use **yoast2** (text GUI) package manager:

```
suse:~# yoast2
```



If a package is messed you can always go back and use good old *RPM (Redhat Package Manager)* to solve it.

