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Version	cat /etc/redhat-release
カーネルバージョン情報	uname -r

インストール時の手元メモを参照

```
[root@localhost ~]# yum -v groupinstall
```

無効になっているため、プラグイン「rhnplugin」は読み込みません

プラグイン「langpacks」を読み込んでいます

プラグイン「product-id」を読み込んでいます

プラグイン「search-disabled-repos」を読み込んでいます

プラグイン「subscription-manager」を読み込んでいます

Adding ja_JP.UTF-8 to language list

Updating Subscription Management repositories.

Config time: 4.979

Yum version: 3.4.3

There is no installed groups file.

Maybe run: yum groups mark convert (see man yum)

Setting up Package Sacks

pkgsack time: 0.024

group time: 0.180

Available Environment Groups:

最小限のインストール (minimal)

インフラストラクチャーサーバー (infrastructure-server-environment)

ファイルとプリントサーバー (file-print-server-environment)

Cinnamon デスクトップ (cinnamon-desktop-environment)

MATE デスクトップ (mate-desktop-environment)

ベーシック Web サーバー (web-server-environment)

仮想化ホスト (virtualization-host-environment)

サーバー (GUI 使用) (graphical-server-environment)

利用可能なグループ

Cinnamon (cinnamon-desktop)

Eメールサーバー (mail-server)

Fedora パッケージャ (fedora-packager)

Haskell のサポート (haskell)

KDE デスクトップ (kde-desktop)

LXQt Desktop (lxqt-desktop)

MATE (mate-desktop)

Milkymist (milkymist)

NIS サーバー (network-server)

Officeスイート/生産性 (office-suite)

Smart card のサポート (smart-card)

TurboGears アプリケーションフレームワーク (turbogears)

Web Servlet エンジンのサポート (web-servlet)

Web サーバー (web-server)

Xfce (xfce-desktop)

インターネットアプリケーション (internet-applications)

グラフィカル管理ツール (graphical-admin-tools)

グラフィック作成ツール (graphics)

システム管理 (system-management)

システム管理ツール (system-admin-tools)

セキュリティーツール (security-tools)

テキストのインターネットツール (console-internet)

ネットワークツール (network-tools)

ハードウェア監視ユーティリティ (hardware-monitoring)

バックアップクライアント (backup-client)

パフォーマンスツール (performance)

フォント (fonts)

ベース (base)

レガシーな UNIX 互換性 (legacy-unix)

互換性ライブラリー (compat-libraries)

入力メソッド (input-methods)

技術文書の執筆 (technical-writing)

教育用ソフトウェア (education)

汎用デスクトップ (general-desktop)

科学技術 サポート (scientific)

開発ツール (development)

電子ラボラトリ (electronic-lab)

完了

```
[root@localhost ~]# yum -v group info graphical-server-environment
```

無効になっているため、プラグイン「rhnplugin」は読み込みません

プラグイン「langpacks」を読み込んでいます

プラグイン「product-id」を読み込んでいます

プラグイン「search-disabled-repos」を読み込んでいます

プラグイン「subscription-manager」を読み込んでいます

Adding ja_JP.UTF-8 to language list

Updating Subscription Management repositories.

Config time: 5.035

Yum version: 3.4.3

There is no installed groups file.

Maybe run: yum groups mark convert (see man yum)

Setting up Package Sacks

pkgsack time: 0.024

group time: 0.179

Environment Group: サーバー (GUI 使用)

Environment-Id: graphical-server-environment

説明: GUI を使用してネットワークインフラストラクチャのサービスを動作させるサーバーです。

Mandatory Groups:

```
+base
+core
+desktop-debugging
+dial-up
+fonts
+gnome-desktop
+guest-agents
+guest-desktop-agents
+hardware-monitoring
+input-methods
+internet-browser
+multimedia
+print-client
+x11
```

Optional Groups:

```
+backup-server
+directory-server
+dns-server
+file-server
+ftp-server
+ha
+hardware-monitoring
+identity-management-server
+infiniband
+java-platform
+kde-desktop
+large-systems
+load-balancer
+mail-server
+mainframe-access
+mariadb
+network-file-system-client
+performance
+postgresql
+print-server
+remote-desktop-clients
+remote-system-management
+resilient-storage
+virtualization-client
+virtualization-hypervisor
+virtualization-tools
```

```
[root@localhost ~]# yum -v groups info base
```

無効になっているため、プラグイン「rhnpugin」を読み込みません

プラグイン「langpacks」を読み込んでいます

プラグイン「product-id」を読み込んでいます

プラグイン「search-disabled-repos」を読み込んでいます

プラグイン「subscription-manager」を読み込んでいます

Adding ja_JP.UTF-8 to language list

Updating Subscription Management repositories.

Config time: 5.003

Yum version: 3.4.3

There is no installed groups file.

Maybe run: yum groups mark convert (see man yum)

Setting up Package Sacks

pkgsack time: 0.024

group time: 0.179

グループ: ベース

グループ ID: base

rpmdb time: 0.000

説明: Enterprise Linux の標準インストール

強制的なパッケージ:

acl-2.2.51-14.el7.x86_64

@anaconda/7.5

at-3.1.13-23.el7.x86_64

@anaconda/7.5

attr-2.4.46-13.el7.x86_64

@anaconda/7.5

bc-1.06.95-13.el7.x86_64

@anaconda/7.5

32:bind-utils-9.9.4-61.el7_5.1.x86_64

@rhel-7-server-rpms/7.5

cpio-2.11-27.el7.x86_64

@anaconda/7.5

crda-3.13.2016.02.08-1.el7.x86_64

@anaconda/7.5

crontabs-1.11-6.20121102git.el7.noarch

@anaconda/7.5

cyrus-sasl-plain-2.1.26-23.el7.i686

rhel-7-server-rpms

cyrus-sasl-plain-2.1.26-23.el7.x86_64

@anaconda/7.5

1:dbus-1.10.24-7.el7.x86_64

@anaconda/7.5

ed-1.9-4.el7.x86_64

@anaconda/7.5

file-5.11-33.el7.x86_64

@anaconda/7.5

logrotate-3.8.6-15.el7.x86_64

@anaconda/7.5

lsf-4.87-5.el7.x86_64

@anaconda/7.5

man-db-2.6.3-11.el7.x86_64

@rhel-7-server-rpms

net-tools-2.0-0.22.20131004git.el7.x86_64

@anaconda/7.5

ntsysv-1.7.4-1.el7.x86_64

@anaconda/7.5

pciutils-3.5.1-3.el7.x86_64

@anaconda/7.5

psacct-6.6.1-13.el7.x86_64

@anaconda/7.5

1:quota-4.01-17.el7.x86_64

@anaconda/7.5

redhat-indexhtml-7-11.el7_0.noarch

@anaconda/7.5

setserial-2.17-33.el7.x86_64

@anaconda/7.5

3:traceroute-2.0.22-2.el7.x86_64

@anaconda/7.5

usb_modeswitch-2.5.1-1.el7.x86_64

@anaconda/7.5

標準パッケージ:

abrt-addon-ccpp-2.1.11-50.el7.x86_64

@anaconda/7.5

abrt-addon-python-2.1.11-50.el7.x86_64

@anaconda/7.5

abrt-cli-2.1.11-50.el7.x86_64

@anaconda/7.5

abrt-console-notification-2.1.11-50.el7.x86_64

@anaconda/7.5

1:bash-completion-2.1-6.el7.noarch

@anaconda/7.5

blktrace-1.0.5-8.el7.x86_64

@anaconda/7.5

+bpfptool-3.10.0-1160.11.1.el7.x86_64

rhel-7-server-rpms

bridge-utils-1.5-9.el7.x86_64

@anaconda/7.5

bzip2-1.0.6-13.el7.x86_64

@anaconda/7.5

chrony-3.2-2.el7.x86_64

@anaconda/7.5

cryptsetup-1.7.4-4.el7.x86_64

@anaconda/7.5

dmraid-1.0.0.rc16-28.el7.i686

rhel-7-server-rpms

dmraid-1.0.0.rc16-28.el7.x86_64

@anaconda/7.5

dosfstools-3.0.20-9.el7.x86_64

@anaconda/7.5

2:ethtool-4.8-7.el7.x86_64

@anaconda/7.5

fprintd-pam-0.5.0-4.0.el7_0.x86_64

@anaconda/7.5


```

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rhel-7-server-rpms
rhel-7-server-rpms
rhel-7-server-rpms

@rhel-7-server-rpms
rhel-7-server-rpms
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@anaconda/7.5
rhel-7-server-rpms
@anaconda/7.5

```



```

sox-14.4.1-7.el7.i686
squashfs-tools-4.3-0.21.gitaae0aff4.el7.x86_64
star-1.5.2-13.el7.x86_64
subscription-manager-migration-1.24.45-1.el7_9.x86_64
subscription-manager-migration-data-2.0.56-1.el7.noarch
tmpwatch-2.11-6.el7.x86_64
udftools-1.0.0b3-26.el7.x86_64
usbguard-0.7.4-3.el7.i686
usbguard-0.7.4-3.el7.x86_64
uuidd-2.23.2-65.el7.x86_64
volume_key-0.3.9-9.el7.x86_64
wodim-1.1.11-23.el7.x86_64
1:x86info-1.30-6.el7.x86_64
yum-plugin-aliases-1.1.31-54.el7_8.noarch
yum-plugin-changelog-1.1.31-54.el7_8.noarch
yum-plugin-tmprepo-1.1.31-54.el7_8.noarch
yum-plugin-verify-1.1.31-54.el7_8.noarch
yum-plugin-versionlock-1.1.31-54.el7_8.noarch
zsh-5.0.2-34.el7_8.2.x86_64

```

条件付パッケージ:

```
+rubygem-abrt-0.3.0-1.el7.noarch
```

```

rhel-7-server-rpms
rhel-7-server-rpms
rhel-7-server-rpms
rhel-7-server-rpms
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rhel-7-server-rpms
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rhel-7-server-rpms

```

```
[root@RHEL75 yum.repos.d]# fdisk -l
```

```
Disk /dev/sda: 750.2 GB, 750156374016 bytes, 1465149168 sectors
```

```
Units = sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O サイズ (最小 / 推奨): 512 バイト / 512 バイト
```

```
Disk label type: dos
```

```
ディスク識別子: 0x2d1f9fe7
```

```
デバイス ブート 始点 終点 ブロック Id システム
```

```
/dev/sda1 * 2048 965738487 482868220 7 HPFS/NTFS/exFAT
```

```
/dev/sda2 965738496 967835647 1048576 83 Linux
```

```
/dev/sda3 967835648 1465147391 248655872 8e Linux LVM
```

```
Disk /dev/mapper/rhel-root: 53.7 GB, 53687091200 bytes, 104857600 sectors
```

```
Units = sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O サイズ (最小 / 推奨): 512 バイト / 512 バイト
```

```
Disk /dev/mapper/rhel-swap: 4160 MB, 4160749568 bytes, 8126464 sectors
```

```
Units = sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O サイズ (最小 / 推奨): 512 バイト / 512 バイト
```

```
Disk /dev/mapper/rhel-home: 196.8 GB, 196767383552 bytes, 384311296 sectors
```

```
Units = sectors of 1 * 512 = 512 bytes
```

```
Sector size (logical/physical): 512 bytes / 512 bytes
```

```
I/O サイズ (最小 / 推奨): 512 バイト / 512 バイト
```

```
[root@RHEL75 yum.repos.d]# vgdisplay
```

```
--- Volume group ---
```

```
VG Name      rhel
System ID
Format       lvm2
Metadata Areas 1
Metadata Sequence No 4
VG Access     read/write
VG Status     resizable
MAX LV        0
Cur LV       3
Open LV       3
Max PV        0
Cur PV       1
Act PV        1
VG Size       237.13 GiB
PE Size       4.00 MiB
Total PE      60706
Alloc PE / Size 60705 / <237.13 GiB
Free PE / Size  1 / 4.00 MiB
VG UUID       KyZnDp-Jqy-iVqf-bPBh-2LjO-YdSe-UfqQEh
```

```
[root@RHEL75 yum.repos.d]# lvdisplay
```

```
--- Logical volume ---
```

```
LV Path      /dev/rhel/swap
LV Name       swap
VG Name       rhel
LV UUID       jr6vXD-c3uu-NctM-ZwHw-a8Yg-rysZ-bVcocU
LV Write Access read/write
LV Creation host, time rhel75, 2020-12-12 08:45:21 +0900
LV Status     available
# open        2
LV Size       <3.88 GiB
Current LE    992
Segments      1
Allocation    inherit
Read ahead sectors auto
               - currently set to 8192
Block device  253:1
```

```
--- Logical volume ---
```

```
LV Path      /dev/rhel/home
LV Name       home
VG Name       rhel
LV UUID       n2yph9-XMgM-ADi4-hWtj-AgKx-s6MO-SBD3dt
LV Write Access read/write
LV Creation host, time rhel75, 2020-12-12 08:45:22 +0900
LV Status     available
# open        1
LV Size       183.25 GiB
Current LE    46913
Segments      1
Allocation    inherit
Read ahead sectors auto
               - currently set to 8192
Block device  253:2
```

```
--- Logical volume ---
```

```
LV Path      /dev/rhel/root
LV Name       root
VG Name       rhel
LV UUID       4BiY1b-0DkM-fFKP-hA2L-eM5o-dQnG-vOf11Z
LV Write Access read/write
LV Creation host, time rhel75, 2020-12-12 08:45:24 +0900
LV Status     available
# open        1
LV Size       50.00 GiB
Current LE    12800
Segments      1
Allocation    inherit
Read ahead sectors auto
               - currently set to 8192
Block device  253:0
```

```
[root@RHEL75 ~]# df -m
ファイルシステム      1M-ブロック  使用  使用可  使用%  マウント位置
/dev/mapper/rhel-root    51175  9575  41601   19% /
devtmpfs                 1877    0   1877    0% /dev
tmpfs                    1895    1   1895    1% /dev/shm
tmpfs                    1895   10   1885    1% /run
tmpfs                    1895    0   1895    0% /sys/fs/cgroup
/dev/mapper/rhel-home    187561  169 187393    1% /home
/dev/sda2                1014   227   788   23% /boot
tmpfs                    379    1   379    1% /run/user/42
tmpfs                    379    1   379    1% /run/user/1000
[root@RHEL75 ~]#
```

```
[root@localhost ~]# ls -la /
```

```
lrwxrwxrwx. 1 root root 7 12月 12 2020 /bin -> usr/bin
dr-xr-xr-x. 4 root root 4096 12月 12 2020 /boot
drwxr-xr-x. 21 root root 3740 1月 1 00:01 /dev
drwxr-xr-x. 141 root root 12288 1月 1 00:01 /etc
drwxr-xr-x. 3 root root 22 12月 12 2020 /home
lrwxrwxrwx. 1 root root 7 12月 12 2020 /lib -> usr/lib
lrwxrwxrwx. 1 root root 9 12月 12 2020 /lib64 -> usr/lib64
drwxr-xr-x. 2 root root 6 12月 15 2017 /media
drwxr-xr-x. 2 root root 6 12月 15 2017 /mnt
drwxr-xr-x. 3 root root 16 12月 12 2020 /opt
dr-xr-xr-x. 263 root root 0 1月 1 2007 /proc
dr-xr-x--. 9 root root 4096 1月 1 00:46 /root
drwxr-xr-x. 42 root root 1380 1月 1 01:45 /run
lrwxrwxrwx. 1 root root 8 12月 12 2020 /sbin -> usr/sbin
drwxr-xr-x. 2 root root 6 12月 15 2017 /srv
dr-xr-xr-x. 13 root root 0 1月 1 00:00 /sys
drwxrwxrwt. 23 root root 4096 1月 1 00:50 /tmp
drwxr-xr-x. 13 root root 155 12月 12 2020 /usr
drwxr-xr-x. 20 root root 282 12月 12 2020 /var
```

ファイアーウォール

```
[root@RHEL75 yum.repos.d]# firewall-cmd --state
```

<https://access.redhat.com/d>
running

telnet

```
[root@RHEL75 yum.repos.d]# yum list installed | grep telnet
```

<https://qiita.com/montblanc>
[root@RHEL75 yum.repos.d]# →インストールされていない

起動時ランレベル

```
[root@RHEL75 yum.repos.d]# cat /etc/inittab
# inittab is no longer used when using systemd.
#
# ADDING CONFIGURATION HERE WILL HAVE NO EFFECT ON YOUR SYSTEM.
#
# Ctrl-Alt-Delete is handled by /usr/lib/systemd/system/ctrl-alt-del.target
#
# systemd uses 'targets' instead of runlevels. By default, there are two main targets:
#
# multi-user.target: analogous to runlevel 3
# graphical.target: analogous to runlevel 5
#
# To view current default target, run:
# systemctl get-default
#
# To set a default target, run:
# systemctl set-default TARGET.target
#
```

```
[root@RHEL75 yum.repos.d]# runlevel
```

N 5 →/etc/inittabには何も記載がない
<https://www.infraeye.cc>

? Ctrl-alt-del

```
[root@RHEL75 yum.repos.d]# cat /usr/lib/systemd/system/ctrl-alt-del.target
# This file is part of systemd.
#
# systemd is free software; you can redistribute it and/or modify it
# under the terms of the GNU Lesser General Public License as published by
# the Free Software Foundation; either version 2.1 of the License, or
# (at your option) any later version.
```

```
[Unit]
Description=Reboot
Documentation=man:systemd.special(7)
DefaultDependencies=no
Requires=systemd-reboot.service
After=systemd-reboot.service
AllowIsolate=yes
JobTimeoutSec=30min
JobTimeoutAction=reboot-force
```

```
[Install]
Alias=ctrl-alt-del.target
```

```
[root@RHEL75 ~]# systemctl list-unit-files --no-pager | grep ctrl-alt-del.target
ctrl-alt-del.target          disabled
```

```
[root@RHEL75 ~]# systemctl mask ctrl-alt-del.target
Created symlink from /etc/systemd/system/ctrl-alt-del.target to /dev/null.
[root@RHEL75 ~]#
```

【確認】

```
[root@RHEL75 ~]# systemctl list-unit-files --no-pager | grep ctrl-alt-del.target
ctrl-alt-del.target          masked
[root@RHEL75 ~]#
```

? GRUB

```
[root@RHEL75 yum.repos.d]# grep "^menuentry" /boot/grub2/grub.cfg | cut -d '"' -f
Red Hat Enterprise Linux Server (3.10.0-862.14.4.el7.x86_64) 7.5 (Maipo)
Red Hat Enterprise Linux Server (3.10.0-862.el7.x86_64) 7.5 (Maipo)
Red Hat Enterprise Linux Server (0-rescue-a124834d5d3e49b5a24329553e68460c) 7
```

```
[root@RHEL75 yum.repos.d]# cat /etc/default/grub
GRUB_TIMEOUT=5
GRUB_DISTRIBUTOR="$(sed 's, release .*$,g' /etc/system-release)"
GRUB_DEFAULT=saved
GRUB_DISABLE_SUBMENU=true
GRUB_TERMINAL_OUTPUT="console"
GRUB_CMDLINE_LINUX="crashkernel=auto rd.lvm.lv=rhel/root rd.lvm.lv=rhel/swap"
GRUB_DISABLE_RECOVERY="true"
```

kdump

```
[root@RHEL75 yum.repos.d]# cat /etc/kdump.conf
# This file contains a series of commands to perform (in order) in the kdump
# kernel after a kernel crash in the crash kernel(1st kernel) has happened.
#
# Directives in this file are only applicable to the kdump initramfs, and have
# no effect once the root filesystem is mounted and the normal init scripts are
# processed.
#
# Currently, only one dump target and path can be specified. If the dumping to
# the configured target fails, the default action which can be configured via
# the "default" directive will be performed.
#
# Supported options:
#
```

```

# raw <partition>
#     - Will dd /proc/vmcore into <partition>.
#     Use persistent device names for partition devices,
#     such as /dev/vg/<devname>.
#
# nfs <nfs mount>
#     - Will mount nfs to <mnt>, and copy /proc/vmcore to
#     <mnt>/<path>/%HOST-%DATE/, supports DNS.
#
# ssh <user@server>
#     - Will scp /proc/vmcore to <user@server>:<path>/%HOST-%DATE/,
#     supports DNS.
#     NOTE: make sure the user has write permissions on the server.
#
# sshkey <path>
#     - Will use the sshkey to do ssh dump.
#     Specify the path of the ssh key to use when dumping
#     via ssh. The default value is /root/.ssh/kdump_id_rsa.
#
# <fs type> <partition>
#     - Will mount -t <fs type> <partition> <mnt>, and copy
#     /proc/vmcore to <mnt>/<path>/%DATE/.
#     NOTE: <partition> can be a device node, label or uuid.
#     It's recommended to use persistent device names
#     such as /dev/vg/<devname>.
#     Otherwise it's suggested to use label or uuid.
#
# path <path>
#     - "path" represents the file system path in which vmcore
#     will be saved. If a dump target is specified in
#     kdump.conf, then "path" is relative to the specified
#     dump target.
#
#     Interpretation of "path" changes a bit if the user didn't
#     specify any dump target explicitly in kdump.conf. In this
#     case, "path" represents the absolute path from root. The
#     dump target and adjusted path are arrived at automatically
#     depending on what's mounted in the current system.
#
#     Ignored for raw device dumps. If unset, will use the default
#     "/var/crash".
#
# core_collector <command> <options>
#     - This allows you to specify the command to copy
#     the vmcore. The default is makedumpfile, which on
#     some architectures can drastically reduce vmcore size.
#     See /sbin/makedumpfile --help for a list of options.
#     Note that the -i and -g options are not needed here,
#     as the initrd will automatically be populated with a
#     config file appropriate for the running kernel.
#     The default core_collector for raw/ssh dump is:
#     "makedumpfile -F -l --message-level 1 -d 31".
#     The default core_collector for other targets is:

```



```

# "makedumpfile -l --message-level 1 -d 31".
#
# "makedumpfile -F" will create a flattened vmcore.
# You need to use "makedumpfile -R" to rearrange the dump data to
# a normal dumpfile readable with analysis tools. For example:
# "makedumpfile -R vmcore < vmcore.flat".
#
# For core_collector format details, you can refer to
# kexec-kdump-howto.txt or kdump.conf manpage.
#
# kdump_post <binary | script>
# - This directive allows you to run a executable binary
# or script after the vmcore dump process terminates.
# The exit status of the current dump process is fed to
# the executable binary or script as its first argument.
#
# kdump_pre <binary | script>
# - Works like the "kdump_post" directive, but instead of running
# after the dump process, runs immediately before it.
# Exit status of this binary is interpreted as follows:
# 0 - continue with dump process as usual
# non 0 - reboot the system
#
# extra_bins <binaries | shell scripts>
# - This directive allows you to specify additional binaries or
# shell scripts to be included in the kdump initrd.
# Generally they are useful in conjunction with a kdump_post
# or kdump_pre binary or script which depends on these extra_bins.
#
# extra_modules <module(s)>
# - This directive allows you to specify extra kernel modules
# that you want to be loaded in the kdump initrd.
# Multiple modules can be listed, separated by spaces, and any
# dependent modules will automatically be included.
#
# default <reboot | halt | poweroff | shell | dump_to_rootfs>
# - Action to perform in case dumping fails.
# reboot: Reboot the system.
# halt: Halt the system.
# poweroff: Power down the system.
# shell: Drop to a bash shell.
# Exiting the shell reboots the system.
# dump_to_rootfs: Dump vmcore to rootfs from initramfs context and
# reboot. Useful when non-root dump target is specified.
# The default option is "reboot".
#
# force_rebuild <0 | 1>
# - By default, kdump initrd will only be rebuilt when necessary.
# Specify 1 to force rebuilding kdump initrd every time when kdump
# service starts.
#
# force_no_rebuild <0 | 1>
# - By default, kdump initrd will be rebuilt when necessary.

```

```

#       Specify 1 to bypass rebuilding of kdump initrd.
#
#       force_no_rebuild and force_rebuild options are mutually
#       exclusive and they should not be set to 1 simultaneously.
#
# override_resettable <0 | 1>
#       - Usually an unresettable block device can't be a dump target.
#       Specifying 1 when you want to dump even though the block
#       target is unresettable
#       By default, it is 0, which will not try dumping destined to fail.
#
# dracut_args <arg(s)>
#       - Pass extra dracut options when rebuilding kdump initrd.
#
# fence_kdump_args <arg(s)>
#       - Command line arguments for fence_kdump_send (it can contain
#       all valid arguments except hosts to send notification to).
#
# fence_kdump_nodes <node(s)>
#       - List of cluster node(s) except localhost, separated by spaces,
#       to send fence_kdump notifications to.
#       (this option is mandatory to enable fence_kdump).
#

#raw /dev/vg/lv_kdump
#ext4 /dev/vg/lv_kdump
#ext4 LABEL=/boot
#ext4 UUID=03138356-5e61-4ab3-b58e-27507ac41937
#nfs my.server.com:/export/tmp
#ssh user@my.server.com
#sshkey /root/.ssh/kdump_id_rsa
path /var/crash
core_collector makedumpfile -l --message-level 1 -d 31
#core_collector scp
#kdump_post /var/crash/scripts/kdump-post.sh
#kdump_pre /var/crash/scripts/kdump-pre.sh
#extra_bins /usr/bin/lftp
#extra_modules gfs2
#default shell
#force_rebuild 1
#force_no_rebuild 1
#dracut_args --omit-drivers "cfg80211 snd" --add-drivers "ext2 ext3"
#fence_kdump_args -p 7410 -f auto -c 0 -i 10
#fence_kdump_nodes node1 node2

```

→ダンプ出力のパ
→dumpの圧縮言

ダンプ出力先デバ
ダンプ出力後の動

sellinux

```
[root@RHEL75 yum.repos.d]# cat /etc/selinux/config
```

```

# This file controls the state of SELinux on the system.
# SELINUX= can take one of these three values:
#   enforcing - SELinux security policy is enforced.
#   permissive - SELinux prints warnings instead of enforcing.

```

```
# disabled - No SELinux policy is loaded.
SELINUX=enforcing
# SELINUXTYPE= can take one of three two values:
# targeted - Targeted processes are protected,
# minimum - Modification of targeted policy. Only selected processes are protected
# mls - Multi Level Security protection.
SELINUXTYPE=targeted
```

? keyboard

network

```
[root@RHEL75 ~]# cat /etc/sysconfig/network
# Created by anaconda
以下を書き加える
NETWORKING=yes                →デフォルト
HOSTNAME=localhost.localdomain →デフォルト（任意に指定）
GATEWAY=XX.XX.XX.XX           →なし
NOZEROCONF=yes                →追記する? https://qiita.com/shyan
```

disable_IPv6.conf

```
[root@RHEL75 modprobe.d]# ls -l
合計 24
-rw-r--r--. 1 root root 215  9月 21  2018 dccp-blacklist.conf
-rw-r--r--. 1 root root 166  8月 11  2018 firewalld-sysctls.conf
-rw-r--r--. 1 root root 746  2月 23  2018 lockd.conf
-rw-r--r--. 1 root root 1004  9月 15  2017 mlx4.conf
-rw-r--r--. 1 root root  92  4月 17  2018 truescale.conf
-rw-r--r--. 1 root root 674 10月 30  2017 tuned.conf
[root@RHEL75 modprobe.d]# pwd
/etc/modprobe.d
```

→confファイルないので、設定なしで記載

anacrontab

```
[root@RHEL75 etc]# cat /etc/anacrontab
# /etc/anacrontab: configuration file for anacron

# See anacron(8) and anacrontab(5) for details.

SHELL=/bin/sh
PATH=/sbin:/bin:/usr/sbin:/usr/bin
MAILTO=root
# the maximal random delay added to the base delay of the jobs
RANDOM_DELAY=45
# the jobs will be started during the following hours only
START_HOURS_RANGE=3-22

#period in days  delay in minutes  job-identifier  command
1      5      cron.daily      nice run-parts /etc/cron.daily
7      25     cron.weekly      nice run-parts /etc/cron.weekly
@monthly 45     cron.monthly      nice run-parts /etc/cron.monthly
```

logrotate.conf

```
[root@RHEL75 etc]# cat /etc/logrotate.conf
# see "man logrotate" for details
# rotate log files weekly
weekly

# keep 4 weeks worth of backlogs
rotate 4

# create new (empty) log files after rotating old ones
create

# use date as a suffix of the rotated file
dateext

# uncomment this if you want your log files compressed
#compress

# RPM packages drop log rotation information into this directory
include /etc/logrotate.d

# no packages own wtmp and btmp -- we'll rotate them here
/var/log/wtmp {
    monthly
    create 0664 root utmp
    minsize 1M
    rotate 1
}

/var/log/btmp {
    missingok
    monthly
    create 0600 root utmp
    rotate 1
}

# system-specific logs may be also be configured here.
```

logrotate.d/syslog

```
[root@RHEL75 etc]# cat /etc/logrotate.d/syslog
/var/log/cron
/var/log/maillog
/var/log/messages
/var/log/secure
/var/log/spooler
{
    missingok
    sharedscripts
    postrotate
        /bin/kill -HUP `cat /var/run/syslogd.pid 2> /dev/null` 2> /dev/null || true
    endscript
}
```

copytruncateは設定なし「-」

sudoers

```
[root@RHEL75 etc]# cat /etc/sudoers
## Sudoers allows particular users to run various commands as
## the root user, without needing the root password.
##
## Examples are provided at the bottom of the file for collections
## of related commands, which can then be delegated out to particular
## users or groups.
##
## This file must be edited with the 'visudo' command.

## Host Aliases
## Groups of machines. You may prefer to use hostnames (perhaps using
## wildcards for entire domains) or IP addresses instead.
# Host_Alias    FILESERVERS = fs1, fs2
# Host_Alias    MAILSERVERS = smtp, smtp2

## User Aliases
## These aren't often necessary, as you can use regular groups
## (ie, from files, LDAP, NIS, etc) in this file - just use %groupname
## rather than USERALIAS
# User_Alias ADMINS = jsmith, mikem

## Command Aliases
## These are groups of related commands...

## Networking
# Cmnd_Alias NETWORKING = /sbin/route, /sbin/ifconfig, /bin/ping, /sbin/dhclient, /l

## Installation and management of software
# Cmnd_Alias SOFTWARE = /bin/rpm, /usr/bin/up2date, /usr/bin/yum

## Services
# Cmnd_Alias SERVICES = /sbin/service, /sbin/chkconfig, /usr/bin/systemctl start, /u

## Updating the locate database
# Cmnd_Alias LOCATE = /usr/bin/updatedb

## Storage
# Cmnd_Alias STORAGE = /sbin/fdisk, /sbin/sfdisk, /sbin/parted, /sbin/partprobe, /bin

## Delegating permissions
# Cmnd_Alias DELEGATING = /usr/sbin/visudo, /bin/chown, /bin/chmod, /bin/chgrp

## Processes
# Cmnd_Alias PROCESSES = /bin/nice, /bin/kill, /usr/bin/kill, /usr/bin/killall

## Drivers
# Cmnd_Alias DRIVERS = /sbin/modprobe
```

Defaults specification

#

Refuse to run if unable to disable echo on the tty.

#

Defaults !visiblepw

<http://www.maruko2.com/r>

#

Preserving HOME has security implications since many programs

use it when searching for configuration files. Note that HOME

is already set when the the env_reset option is enabled, so

this option is only effective for configurations where either

env_reset is disabled or HOME is present in the env_keep list.

#

Defaults always_set_home

Defaults match_group_by_gid

Defaults env_reset

Defaults env_keep = "COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS"

Defaults env_keep += "MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_C"

Defaults env_keep += "LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_M"

Defaults env_keep += "LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELE"

Defaults env_keep += "LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAL"

#

Adding HOME to env_keep may enable a user to run unrestricted

commands via sudo.

#

Defaults env_keep += "HOME"

Defaults secure_path = /sbin:/bin:/usr/sbin:/usr/bin

Next comes the main part: which users can run what software on

which machines (the sudoers file can be shared between multiple

systems).

Syntax:

##

user MACHINE=COMMANDS

##

The COMMANDS section may have other options added to it.

##

Allow root to run any commands anywhere

root ALL=(ALL) ALL

Allows members of the 'sys' group to run networking, software,

service management apps and more.

%sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROC

Allows people in group wheel to run all commands

%wheel ALL=(ALL) ALL

Same thing without a password

```
# %wheel      ALL=(ALL)      NOPASSWD: ALL

## Allows members of the users group to mount and unmount the
## cdrom as root
# %users  ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom

## Allows members of the users group to shutdown this system
# %users  localhost=/sbin/shutdown -h now

## Read drop-in files from /etc/sudoers.d (the # here does not mean a comment)
#include_dir /etc/sudoers.d
```

sysctl.conf

```
[root@RHEL75 etc]# cat /etc/sysctl.conf
# sysctl settings are defined through files in
# /usr/lib/sysctl.d/, /run/sysctl.d/, and /etc/sysctl.d/.
#
# Vendors settings live in /usr/lib/sysctl.d/.
# To override a whole file, create a new file with the same in
# /etc/sysctl.d/ and put new settings there. To override
# only specific settings, add a file with a lexically later
# name in /etc/sysctl.d/ and put new settings there.
#
# For more information, see sysctl.conf(5) and sysctl.d(5).
```

<http://eno0514.hatenadiary.jp/entry/20150622/1434905054>

→設定追加する

limits.conf

```
[root@RHEL75 etc]# cat /etc/security/limits.conf
# /etc/security/limits.conf
#
# This file sets the resource limits for the users logged in via PAM.
# It does not affect resource limits of the system services.
#
# Also note that configuration files in /etc/security/limits.d directory,
# which are read in alphabetical order, override the settings in this
# file in case the domain is the same or more specific.
# That means for example that setting a limit for wildcard domain here
# can be overridden with a wildcard setting in a config file in the
# subdirectory, but a user specific setting here can be overridden only
# with a user specific setting in the subdirectory.
#
# Each line describes a limit for a user in the form:
#
# <domain>      <type> <item> <value>
#
# Where:
# <domain> can be:
#   - a user name
#   - a group name, with @group syntax
#   - the wildcard *, for default entry
#   - the wildcard %, can be also used with %group syntax,
```

```

#           for maxlogin limit
#
# <type> can have the two values:
#   - "soft" for enforcing the soft limits
#   - "hard" for enforcing hard limits
#
# <item> can be one of the following:
#   - core - limits the core file size (KB)
#   - data - max data size (KB)
#   - fsize - maximum filesize (KB)
#   - memlock - max locked-in-memory address space (KB)
#   - nofile - max number of open file descriptors
#   - rss - max resident set size (KB)
#   - stack - max stack size (KB)
#   - cpu - max CPU time (MIN)
#   - nproc - max number of processes
#   - as - address space limit (KB)
#   - maxlogins - max number of logins for this user
#   - maxsyslogins - max number of logins on the system
#   - priority - the priority to run user process with
#   - locks - max number of file locks the user can hold
#   - sigpending - max number of pending signals
#   - msgqueue - max memory used by POSIX message queues (bytes)
#   - nice - max nice priority allowed to raise to values: [-20, 19]
#   - rtprio - max realtime priority
#
# <domain>    <type> <item>      <value>
#
# *           soft  core          0
# *           hard  rss           10000
# @student    hard  nproc         20
# @faculty    soft  nproc         20
# @faculty    hard  nproc         50
# ftp         hard  nproc         0
# @student    -     maxlogins     4
#
# End of file

```

```

[root@RHEL75 etc]# cat /etc/security/limits.d/20-nproc.conf
# Default limit for number of user's processes to prevent
# accidental fork bombs.
# See rhbz #432903 for reasoning.

```

```

*           soft  nproc    4096
root        soft  nproc    unlimited

```

login.defs

```

[root@RHEL75 etc]# cat /etc/login.defs
#
# Please note that the parameters in this configuration file control the
# behavior of the tools from the shadow-utils component. None of these
# tools uses the PAM mechanism, and the utilities that use PAM (such as the

```



```

# passwd command) should therefore be configured elsewhere. Refer to
# /etc/pam.d/system-auth for more information.
#

# *REQUIRED*
# Directory where mailboxes reside, _or_ name of file, relative to the
# home directory. If you _do_ define both, MAIL_DIR takes precedence.
# QMAIL_DIR is for Qmail
#
#QMAIL_DIR    Maildir
MAIL_DIR      /var/spool/mail
#MAIL_FILE    .mail

# Password aging controls:
#
#    PASS_MAX_DAYS  Maximum number of days a password may be used.
#    PASS_MIN_DAYS  Minimum number of days allowed between password change
#    PASS_MIN_LEN    Minimum acceptable password length.
#    PASS_WARN_AGE  Number of days warning given before a password expires.
#
PASS_MAX_DAYS 99999
PASS_MIN_DAYS  0
PASS_MIN_LEN   5
PASS_WARN_AGE  7

#
# Min/max values for automatic uid selection in useradd
#
UID_MIN        1000
UID_MAX        60000
# System accounts
SYS_UID_MIN    201
SYS_UID_MAX    999

#
# Min/max values for automatic gid selection in groupadd
#
GID_MIN        1000
GID_MAX        60000
# System accounts
SYS_GID_MIN    201
SYS_GID_MAX    999

#
# If defined, this command is run when removing a user.
# It should remove any at/cron/print jobs etc. owned by
# the user to be removed (passed as the first argument).
#
#USERDEL_CMD    /usr/sbin/userdel_local

#
# If useradd should create home directories for users by default
# On RH systems, we do. This option is overridden with the -m flag on

```

```
# useradd command line.
#
CREATE_HOME    yes

# The permission mask is initialized to this value. If not specified,
# the permission mask will be initialized to 022.
UMASK          077

# This enables userdel to remove user groups if no members exist.
#
USERGROUPS_ENAB yes

# Use SHA512 to encrypt password.
ENCRYPT_METHOD SHA512
```

profile

```
[root@RHEL75 etc]# cat /etc/profile
# /etc/profile

# System wide environment and startup programs, for login setup
# Functions and aliases go in /etc/bashrc

# It's NOT a good idea to change this file unless you know what you
# are doing. It's much better to create a custom.sh shell script in
# /etc/profile.d/ to make custom changes to your environment, as this
# will prevent the need for merging in future updates.

pathmunge () {
    case "${PATH}" in
        *:"$1":*)
            ;;
        *)
            if [ "$2" = "after" ] ; then
                PATH=$PATH:$1
            else
                PATH=$1:$PATH
            fi
    esac
}

if [ -x /usr/bin/id ]; then
    if [ -z "$EUID" ]; then
        # ksh workaround
        EUID=`/usr/bin/id -u`
        UID=`/usr/bin/id -ru`
    fi
    USER=`/usr/bin/id -un`
    LOGNAME=$USER
    MAIL="/var/spool/mail/$USER"
fi

# Path manipulation
```

```

if [ "$EUID" = "0" ]; then
    pathmunge /usr/sbin
    pathmunge /usr/local/sbin
else
    pathmunge /usr/local/sbin after
    pathmunge /usr/sbin after
fi

HOSTNAME=`/usr/bin/hostname 2>/dev/null`
HISTSIZE=1000
if [ "$HISTCONTROL" = "ignorespace" ] ; then
    export HISTCONTROL=ignoreboth
else
    export HISTCONTROL=ignoredups
fi

export PATH USER LOGNAME MAIL HOSTNAME HISTSIZE HISTCONTROL

# By default, we want umask to get set. This sets it for login shell
# Current threshold for system reserved uid/gids is 200
# You could check uidgid reservation validity in
# /usr/share/doc/setup-*/uidgid file
if [ $UID -gt 199 ] && [ "`/usr/bin/id -gn`" = "`/usr/bin/id -un`" ]; then
    umask 002
else
    umask 022
fi

for i in /etc/profile.d/*.sh /etc/profile.d/sh.local ; do
    if [ -r "$i" ]; then
        if [ "${-#*i}" != "$-" ]; then
            . "$i"
        else
            . "$i" >/dev/null
        fi
    fi
done

unset i
unset -f pathmunge

```

本番インターフェース

```
[root@localhost ~]# ls -l /etc/sysconfig/network-scripts/ifcfg-*
-rw-r--r--. 1 root root 361 1月 28 10:48 /etc/sysconfig/network-scripts/ifcfg-enp4s0
-rw-r--r--. 1 root root 254 1月 3 2018 /etc/sysconfig/network-scripts/ifcfg-lo
[root@localhost ~]# cat /etc/sysconfig/network-scripts/ifcfg-enp4s0
TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no
BOOTPROTO=none
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=enp4s0
UUID=8cdaab27-bd07-44d9-a53b-6f676bc74112
DEVICE=enp4s0
ONBOOT=yes
IPADDR=192.169.2.101
PREFIX=24
GATEWAY=192.169.2.1
DNS1=192.169.2.1
PEERDNS=no
```

本番スタティックルート

なし？ではないか

本番ゲートウェイ →追記する？

```
[root@localhost ~]# ls -l /etc/sysconfig/network
-rw-r--r--. 1 root root 22 1月 28 10:21 /etc/sysconfig/network
[root@localhost ~]# cat /etc/sysconfig/network
# Created by anaconda
```

```
[root@localhost ~]# ls -l /etc/fstab
-rw-r--r--. 1 root root 541 1月 27 23:33 /etc/fstab
[root@localhost ~]# cat /etc/fstab
```

```
#
# /etc/fstab
# Created by anaconda on Wed Jan 27 23:33:26 2021
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
/dev/mapper/rhel-root / xfs defaults 0 0
UUID=938d4b5f-3289-4bee-b9d8-d3091638f835 /boot xfs defaults 0 0
/dev/mapper/rhel-home /home xfs defaults 0 0
/dev/mapper/rhel-swap swap swap defaults 0 0
```

```
[root@localhost ~]# ls -l /etc/hosts
-rw-r--r--. 1 root root 158 6月 7 2013 /etc/hosts
[root@localhost ~]# cat /etc/hosts
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1      localhost localhost.localdomain localhost6 localhost6.localdomain6
```

→要件次第で追加

system-auth

```
[root@localhost ~]# ls -l /etc/pam.d/system-auth
lrwxrwxrwx. 1 root root 14 1月 28 00:08 /etc/pam.d/system-auth -> system-auth-ac
[root@localhost ~]# cat /etc/pam.d/system-auth
#%PAM-1.0
# This file is auto-generated.
# User changes will be destroyed the next time authconfig is run.
auth      required      pam_env.so
auth      required      pam_faildelay.so delay=2000000
auth      sufficient     pam_fprintd.so
auth      sufficient     pam_unix.so nullok try_first_pass
auth      requisite      pam_succeed_if.so uid >= 1000 quiet_success
auth      required      pam_denys.so

account    required      pam_unix.so
account    sufficient     pam_localuser.so
account    sufficient     pam_succeed_if.so uid < 1000 quiet
account    required      pam_permit.so

password   requisite      pam_pwquality.so try_first_pass local_users_only retry=3 authtok_type=
password   sufficient     pam_unix.so sha512 shadow nullok try_first_pass use_authtok
password   required      pam_denys.so

session    optional      pam_keyinit.so revoke
session    required      pam_limits.so
-session    optional      pam_systemd.so
session    [success=1 default=ignore] pam_succeed_if.so service in crond quiet use_uid
session    required      pam_unix.so
```

su

```
[root@localhost ~]# cat /etc/pam.d/su
#%PAM-1.0
auth      sufficient     pam_rootok.so
# Uncomment the following line to implicitly trust users in the "wheel" group.
#auth      sufficient     pam_wheel.so trust use_uid
# Uncomment the following line to require a user to be in the "wheel" group.
#auth      required      pam_wheel.so use_uid
auth      substack        system-auth
auth      include         postlogin
account    sufficient     pam_succeed_if.so uid = 0 use_uid quiet
account    include        system-auth
password   include        system-auth
session    include        system-auth
session    include        postlogin
session    optional      pam_xauth.so
```

sshd

```
[root@localhost ~]# cat /etc/pam.d/sshd
#%PAM-1.0
```

```

auth    required    pam_sepermit.so
auth    substack    password-auth
auth    include     postlogin
# Used with polkit to reauthorize users in remote sessions
-auth   optional    pam_reauthorize.so prepare
account required    pam_nologin.so
account include     password-auth
password include     password-auth
# pam_selinux.so close should be the first session rule
session required    pam_selinux.so close
session required    pam_loginuid.so
# pam_selinux.so open should only be followed by sessions to be executed in the user context
session required    pam_selinux.so open env_params
session required    pam_namespace.so
session optional    pam_keyinit.so force revoke
session include     password-auth
session include     postlogin
# Used with polkit to reauthorize users in remote sessions
-session optional    pam_reauthorize.so prepare

```

password-auth

```

[root@localhost ~]# cat /etc/pam.d/password-auth
##PAM-1.0
# This file is auto-generated.
# User changes will be destroyed the next time authconfig is run.
auth    required    pam_env.so
auth    required    pam_faildelay.so delay=2000000
auth    sufficient   pam_unix.so nullok try_first_pass
auth    requisite    pam_succeed_if.so uid >= 1000 quiet_success
auth    required     pam_deny.so

account  required    pam_unix.so
account  sufficient   pam_localuser.so
account  sufficient   pam_succeed_if.so uid < 1000 quiet
account  required     pam_permit.so

password requisite    pam_pwquality.so try_first_pass local_users_only retry=3 authtok_type=
password sufficient    pam_unix.so sha512 shadow nullok try_first_pass use_authtok

password required     pam_deny.so

session optional      pam_keyinit.so revoke
session required      pam_limits.so
-session optional     pam_systemd.so
session [success=1 default=ignore] pam_succeed_if.so service in crond quiet use_uid
session required      pam_unix.so

```


ファイルがあるものは有効、ないものは無効の解釈でよいのではないか？

```
[root@localhost etc]# ls -l /etc/cron*
-rw-----. 1 root root  0 10月 16 2017 /etc/cron.deny
-rw-r--r--. 1 root root 451 12月 28 2013 /etc/crontab
```

/etc/cron.d:

合計 12

```
-rw-r--r--. 1 root root 128 10月 16 2017 0hourly
-rw-r--r--. 1 root root 108  2月  7 2018 raid-check
-rw-----. 1 root root 235 11月  9 2017 sysstat
```

/etc/cron.daily:

合計 16

```
-rwx-----. 1 root root 219  9月 26 2017 logrotate
-rwxr-xr-x. 1 root root 618  7月 10 2018 man-db.cron
-rwx-----. 1 root root 208 11月  9 2017 mlocate
-rwx-----. 1 root root 256  3月 14 2018 rhsmd
```

/etc/cron.hourly:

合計 8

```
-rwxr-xr-x. 1 root root 392 10月 16 2017 0anacron
-rwxr-xr-x. 1 root root 191 10月 18 2017 mcelog.cron
```

/etc/cron.monthly:

合計 0

/etc/cron.weekly:

合計 0

デフォルトでコメントアウトされていない、つまり、有効になっている
 →ITS基準では全コメントアウト(必要なところだけ有効)にする
 →要件確認

```
[root@localhost etc]# cat /etc/services | more
# /etc/services:
# $Id: services,v 1.55 2013/04/14 ovasik Exp $
#
# Network services, Internet style
# IANA services version: last updated 2013-04-10
#
# Note that it is presently the policy of IANA to assign a single well-known
# port number for both TCP and UDP; hence, most entries here have two entries
# even if the protocol doesn't support UDP operations.
# Updated from RFC 1700, ``Assigned Numbers'' (October 1994). Not all ports
# are included, only the more common ones.
#
# The latest IANA port assignments can be gotten from
#   http://www.iana.org/assignments/port-numbers
# The Well Known Ports are those from 0 through 1023.
# The Registered Ports are those from 1024 through 49151
# The Dynamic and/or Private Ports are those from 49152 through 65535
#
# Each line describes one service, and is of the form:
#
# service-name port/protocol [aliases ...] [# comment]

tcpmux      1/tcp                # TCP port service multiplexer
tcpmux      1/udp                # TCP port service multiplexer
rje         5/tcp                # Remote Job Entry
rje         5/udp                # Remote Job Entry
echo        7/tcp
--続ける--
```

現状の自動起動設定は以下の通り、
ITS基準にあわせて設定追加が必要であれば、追加する。

```
[root@localhost etc]# chkconfig --list
```

注記: この出力に含まれるのは SysV サービスのみです。ネイティブな
systemd サービスは含まれません。SysV の設定データはネイティブな
systemd 設定で上書きされる場合があります。
systemd サービスを一覧表示する場合は 'systemctl list-unit-files' を使用します。
特定のターゲットで有効になっているサービスを確認する場合は
'systemctl list-dependencies [target]' を使用します。

netconsole	0:off	1:off	2:off	3:off	4:off	5:off	6:off
network	0:off	1:off	2:on	3:on	4:on	5:on	6:off
rhnsd	0:off	1:off	2:on	3:on	4:on	5:on	6:off

rcスクリプト →よくわからない

```
[root@localhost etc]# cat /etc/rc.d/rc.local
#!/bin/bash
# THIS FILE IS ADDED FOR COMPATIBILITY PURPOSES
#
# It is highly advisable to create own systemd services or udev rules
# to run scripts during boot instead of using this file.
#
# In contrast to previous versions due to parallel execution during boot
# this script will NOT be run after all other services.
#
# Please note that you must run 'chmod +x /etc/rc.d/rc.local' to ensure
# that this script will be executed during boot.

touch /var/lock/subsys/local
```

```

[root@localhost etc]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/sbin/nologin
systemd-network:x:192:192:systemd Network Management:/sbin/nologin
dbus:x:81:81:System message bus:/sbin/nologin
polkitd:x:999:998:User for polkitd:/sbin/nologin
libstoragemgmt:x:998:996:daemon account for libstoragemgmt:/var/run/lsm:/sbin/nologin
rpc:x:32:32:Rpcbind Daemon:/var/lib/rpcbind:/sbin/nologin
colord:x:997:995:User for colord:/var/lib/colord:/sbin/nologin
sasauthd:x:996:76:Sasauthd user:/run/sasauthd:/sbin/nologin
abrt:x:173:173:/etc/abrt:/sbin/nologin
setroubleshoot:x:995:992:/var/lib/setroubleshoot:/sbin/nologin
rtkit:x:172:172:RealtimeKit:/proc:/sbin/nologin
gluster:x:994:991:GlusterFS daemons:/var/run/gluster:/sbin/nologin
chrony:x:993:990:/var/lib/chrony:/sbin/nologin
rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin
nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin
unbound:x:992:989:Unbound DNS resolver:/etc/unbound:/sbin/nologin
tss:x:59:59:Account used by the trousers package to sandbox the tcsd daemon:/dev/null:/sbin/nologin
usbmuxd:x:113:113:usbmuxd user:/sbin/nologin
geoclue:x:991:987:User for geoclue:/var/lib/geoclue:/sbin/nologin
radvd:x:75:75:radvd user:/sbin/nologin
qemu:x:107:107:qemu user:/sbin/nologin
pulse:x:171:171:PulseAudio System Daemon:/var/run/pulse:/sbin/nologin
gdm:x:42:42:/var/lib/gdm:/sbin/nologin
gnome-initial-setup:x:990:984:/run/gnome-initial-setup:/sbin/nologin
sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin
avahi:x:70:70:Avahi mDNS/DNS-SD Stack:/var/run/avahi-daemon:/sbin/nologin
postfix:x:89:89:/var/spool/postfix:/sbin/nologin
ntp:x:38:38:/etc/ntp:/sbin/nologin
tcpdump:x:72:72:/sbin/nologin
mubk-aml-lib:x:1000:1000:mubk-aml-lib:/home/mubk-aml-lib:/bin/bash
dockerroot:x:989:983:Docker User:/var/lib/docker:/sbin/nologin

```

1	2	3	4	5	6	7
tamohiko:	x:	1000:	1000:	operator:	/home/tamohiko:	/bin/bash

	項目	説明
1	ユーザ名	ユーザ名が記述されている
2	パスワード	「x」(/etc/shadow を使用)「*」(アカウントを維持的に無効化)「未設定」(パスワード設定なし)のいずれかとなっている
3	ユーザID	ユーザのID(uid)が記述されている
4	グループID	ユーザが所属している主グループのID(gid)が記述されている
5	コメント	フルネームや役割などのコメント情報が記述されている
6	ホームディレクトリ	ユーザのホームディレクトリの場所がフルパスで記述されている
7	ログインシェル	ユーザがログインした際に適用されるシェルが記述されている

末尾に /bin/bash が記載されている →ssh可能

su可否の調べ方は調査中

[root@localhost etc]# cat /etc/group	例	
root:x:0:	wheel	グループ名
bin:x:1:	x	「 x 」という文字か、暗号化されたパスワード。「 x 」はシャドウパスワードを使用している事を意味します。
daemon:x:2:	10	グループID(GID)
sys:x:3:	Mubk-aml-lib	サブグループとして所属しているユーザーアカウントのリスト。カンマ区切り。
adm:x:4:		
tty:x:5:		
disk:x:6:		
lp:x:7:		
mem:x:8:		
kmem:x:9:		
wheel:x:10:mubk-aml-lib		
cdrom:x:11:		
mail:x:12:postfix		
man:x:15:		
dialout:x:18:		
floppy:x:19:		
games:x:20:		
tape:x:33:		
video:x:39:		
ftp:x:50:		
lock:x:54:		
audio:x:63:		
nobody:x:99:		
users:x:100:		
utmp:x:22:		
utempter:x:35:		
input:x:999:		
systemd-journal:x:190:		
systemd-network:x:192:		
dbus:x:81:		
polkitd:x:998:		
printadmin:x:997:		
libstoragemgmt:x:996:		
rpc:x:32:		
colord:x:995:		
dip:x:40:		
cgred:x:994:		
ssh_keys:x:993:		
saslauth:x:76:		
abrt:x:173:		
setroubleshoot:x:992:		
rtkit:x:172:		
gluster:x:991:		
chrony:x:990:		
rpcuser:x:29:		
nfsnobody:x:65534:		
unbound:x:989:		
tss:x:59:		
libvirt:x:988:		
usbmuxd:x:113:		
geoclue:x:987:		
radvd:x:75:		
kvm:x:36:qemu		
qemu:x:107:		
pulse-access:x:986:		
pulse-rt:x:985:		
pulse:x:171:		
gdm:x:42:		
gnome-initial-setup:x:984:		
sshd:x:74:		
avahi:x:70:		
slocate:x:21:		
postdrop:x:90:		
postfix:x:89:		
ntp:x:38:		
tcpdump:x:72:		
stapusr:x:156:		
stapsys:x:157:		
stapdev:x:158:		
mubk-aml-lib:x:1000:		
dockerrroot:x:983:		