RHCSA EX200 · RHEL 10 · PRACTICE EXAM

RHCSA EX200 Practice Exam

20 hands-on tasks · **3 hours** · pass mark **15 / 20** · DevOps Simplified

Your lab

server1: where you work, second NIC `enp0s3`, spare 5 GiB disk `/dev/vdb`.
repo.lab.example (192.168.50.1): packages, NFS share, Flatpak repo, time server.
Build both with `repo-setup.sh` and `server1-setup.sh` from the free lab kit.

Rules

Work on server1, in order. Man pages are fine; the internet is not. Everything must survive a reboot. When you finish: `reboot`, then `sudo bash check.sh`. 15 or more is a pass.

Get in and get connected

1 **Recover root** ☐

The root password is unknown. Interrupt the boot and set it to `RedHatLab26!` Root must still log in after a normal reboot.

2 **Network and names** ☐

Hostname `server1.lab.example`. On connection `labnet` set `192.168.50.10/24` and `fd00:50::10/64`. Make `repo.lab.example` resolve to `192.168.50.1` without DNS.

3 **RPM repositories** ☐

Configure repos `http://repo.lab.example/BaseOS` and `http://repo.lab.example/AppStream`, enabled, GPG checking off.

4 **Packages** ☐

Install `tmux`. Install the local file `/root/labtools-1.0-1.noarch.rpm`. Remove `labjunk`.

5 **Flatpak** ☐

Add a system-wide Flatpak remote `labhub` from `http://repo.lab.example/flatpak/labhub.flatpakrepo`, then install `org.lab.Notes`.

Users and access

6 **Users and groups** ☐

Group `sysops` (GID 3000). Users `ana` and `ben` in sysops, `carl` with no interactive shell. Password `Lab-pass26` for all three.

7 **Password aging** ☐

`ben`'s password expires every `60 days` with a `7-day` warning. New users get a `90-day` maximum by default.

8 **Privileged access**
Members of `sysops` run any command with sudo, `no password`. `carl` gets no sudo rights.

9 **Shared directory**
`/srv/projects`: group `sysops`, members create and edit, new files belong to sysops, others no access. `ana`'s umask is `027`.

10 **Fix a permission problem**
`ana` gets Permission denied running `/srv/reports/run.sh`. Fix every cause, without making it world-writable.

11 **SSH keys**
`ana` can `ssh ana@localhost` with a key and no password prompt.

Everyday tools and scripts

12 **Text and archives**
Lines of /etc/passwd ending in `nologin` go to `/root/nologin.txt`. Archive /etc to `/root/etc-backup.tar.bz2`. Symlink `/root/latest-backup` to it.

13 **A script**
Write `/usr/local/bin/bigfiles`: given a directory, print files over 1 MB. No argument: print `Usage: bigfiles DIR` and exit `1`.

14 **Schedule and time**
`ana` runs `logger "RHCSA daily check"` every day at `14:23`. Time syncs from `repo.lab.example`.

Storage

15 **LVM and a file system**
On `/dev/vdb`: a 2 GiB partition, VG `vgexam`, LV `lvdata` of `800 MiB`, XFS, mounted on `/data` at boot `by UUID`.

16 **Swap**
Add a `512 MiB swap partition` from /dev/vdb, active at every boot.

17 **Grow it**
Grow `lvdata` to `1200 MiB` while it stays mounted, file system included.

18 **Network storage**
Autofs: `repo.lab.example:/exports/docs` appears at `/remote/docs` when accessed, `read-only`.

Services and security

19 **Web server on a new port**

Serve `/srv/web/index.html` with httpd on `port 82`. SELinux enforcing: fix context and port label. Open 82 permanently. Let httpd make network connections, persistently.

- [ ]

20 **Running system**

Boot to `multi-user.target`. Recommended `tuned` profile. `Persistent journal`. `labburn` eats CPU and comes back at every boot: stop it for good.

- [ ]

All tasks are original and written for this channel; none comes from the real exam. Lab built and tested on Rocky Linux 10.3, a RHEL-compatible rebuild, not Red Hat Enterprise Linux. Independent training; not affiliated with or endorsed by Red Hat. Full solutions: Part 2 on the DevOps Simplified YouTube channel.