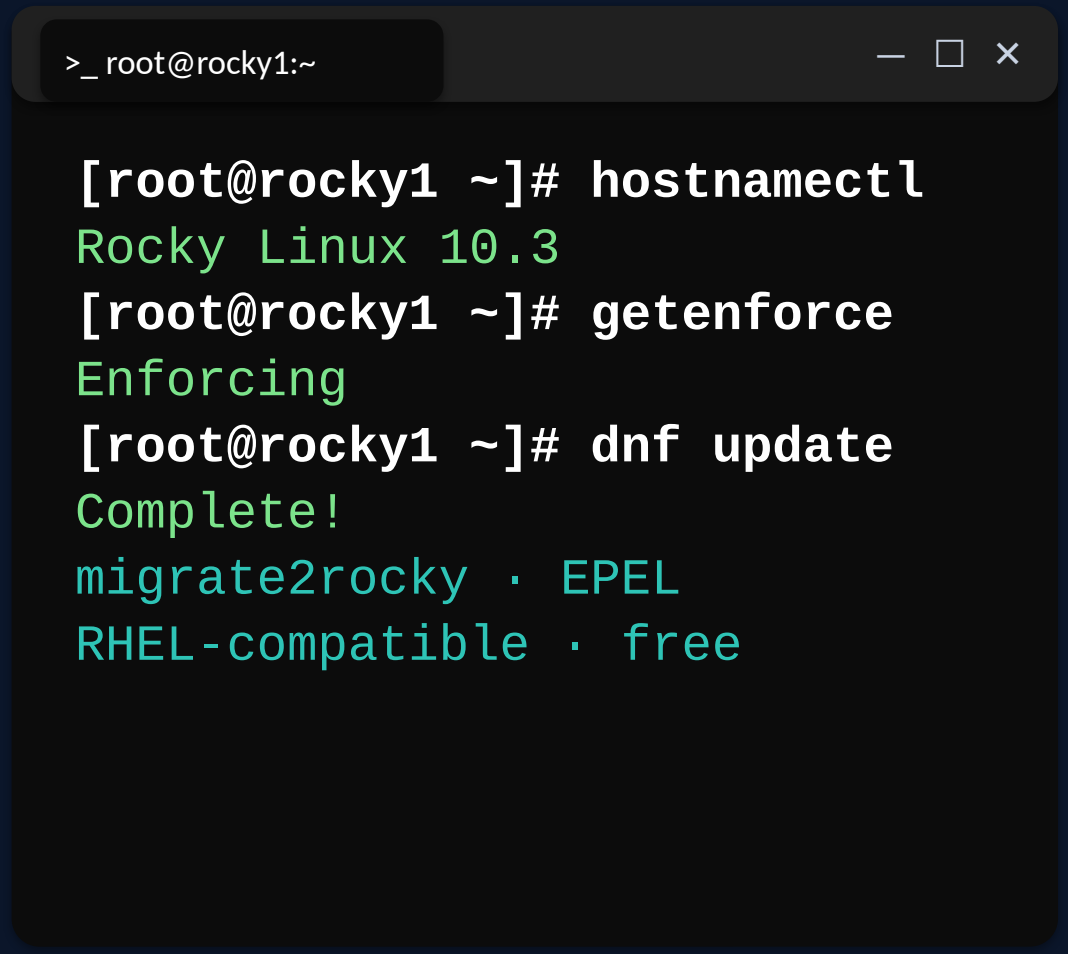


LESSON 7 OF 12

Rocky Linux 9 & 10

Install · Migrate · Differences

Migrating to Rocky: CentOS, AlmaLinux, Oracle & RHEL with migrate2rocky

Full Course · Rocky Linux 10.3 & 9.9 (Nov 2026)

What You Will Learn in Lesson 7

- Migration vs upgrade: an important difference
- Supported migration paths
- Planning: inventory, backups, maintenance window
- Pre-checks that prevent failures
- Running migrate2rocky9 step by step
- Verifying the migrated system
- CentOS 7 and CentOS 8 servers: what to do

Migration vs Upgrade

	Migration (conversion)	Major upgrade
Changes	The distribution (vendor)	The major version
Example	AlmaLinux 9.9 → Rocky 9.9	Rocky 9 → Rocky 10
Version	Same major version	Next major version
Risk	Low to medium: same package versions	High: new kernel, new packages, removed features
Rocky tool	migrate2rocky / migrate2rocky9	None supported (Lesson 8)

Supported Migration Paths

From	To	Tool
CentOS Linux 8, CentOS Stream 8, AlmaLinux 8, Oracle Linux 8, RHEL 8	Rocky 8	migrate2rocky
CentOS Stream 9, AlmaLinux 9, Oracle Linux 9, RHEL 9	Rocky 9	migrate2rocky9
EL 10 systems	Rocky 10	Check the rocky-tools README for current support
Fedora, Ubuntu, others	—	Not supported: reinstall
Upgrades (8 → 9, 9 → 10)	—	Not supported by migrate2rocky

Plan Before You Migrate

Step	Why
Inventory: dnf repolist, rpm -qa, services	Know what runs and where packages come from
Full backup or VM snapshot	The only real rollback
Test on a clone first	Find problems before production
Maintenance window and console access	The server reboots; SSH may drop
Update fully, then reboot	Start from the newest minor release
Note third-party repos and vendor software	Licenses may check the OS name
Plan the 'after' checks	Services, apps, monitoring, backups

Pre-Checks on legacy1

```
[student@legacy1 ~]$ cat /etc/os-release | head -2
NAME="AlmaLinux"
VERSION="9.9 (...)"
[student@legacy1 ~]$ sudo dnf -y update && sudo reboot
[student@legacy1 ~]$ dnf repolist                    # note non-distribution repos
[student@legacy1 ~]$ df -h / /boot /var              # free space: several GB
[student@legacy1 ~]$ sudo dnf check ; sudo rpm -Va --nofiles --nodigest | head
[student@legacy1 ~]$ systemctl list-units --type=service --state=running > ~/services-before.txt
[student@legacy1 ~]$ rpm -qa | sort > ~/packages-before.txt
[student@legacy1 ~]$ getenforce
```

Run migrate2rocky9

```
[student@legacy1 ~]$ curl -O \
      https://raw.githubusercontent.com/rocky-linux/rocky-tools/main/migrate2rocky/migrate2rocky9.sh
[student@legacy1 ~]$ less migrate2rocky9.sh              # read before you run it as root
[student@legacy1 ~]$ chmod u+x migrate2rocky9.sh
[student@legacy1 ~]$ sudo ./migrate2rocky9.sh -h
[student@legacy1 ~]$ sudo ./migrate2rocky9.sh -r         # -r: convert to Rocky
...
Preparing to migrate AlmaLinux 9 to Rocky Linux 9 ...
Running dnf update/distro-sync ...
Done, please reboot your system.
A log of this installation can be found at /var/log/migrate2rocky.log
[student@legacy1 ~]$ sudo reboot
```

Verify the Result

```
[student@legacy1 ~]$ cat /etc/rocky-release
Rocky Linux release 9.9 (Blue Onyx)
[student@legacy1 ~]$ dnf repolist                          # baseos, appstream, extras
[student@legacy1 ~]$ rpm -qa --qf '%{VENDOR}\n' | sort | uniq -c | sort -rn
    690 Rocky Enterprise Software Foundation
      4 Fedora Project                                  # EPEL packages — expected
[student@legacy1 ~]$ uname -r ; getenforce
[student@legacy1 ~]$ systemctl --failed
[student@legacy1 ~]$ systemctl list-units --type=service --state=running > ~/services-after.txt
[student@legacy1 ~]$ diff ~/services-before.txt ~/services-after.txt
[student@legacy1 ~]$ sudo hostnamectl set-hostname rocky3.lab.local     # optional
```

Common Problems and Fixes

Problem	Fix
Script stops on a third-party repo	Disable it (enabled=0), migrate, then re-enable
Conflicting or duplicate packages	dnf distro-sync; remove leftovers; read the log
Still booting the old kernel	Check grubby --default-kernel; reboot again
Some packages still from the old vendor	dnf reinstall <pkg> or dnf distro-sync
Katello / Satellite client installed	Read the README: remove or re-register first
Something broke badly	Restore the snapshot — that is why you took it

Old CentOS 7 and 8 Servers

Starting point	Recommended path
CentOS 7 (EOL June 30, 2024)	Best: build new Rocky 9 or 10 servers and move the workload
CentOS 7, must keep the server	Community route: ELevate to AlmaLinux 8, then migrate2rocky to Rocky 8 — test well
CentOS Linux 8 (EOL Dec 31, 2021)	migrate2rocky to Rocky 8 (update repos to the vault first)
Rocky 8 (security fixes to 2029)	Plan the move to Rocky 9 or 10 now (Lesson 8)
Rule	An unsupported OS on the internet is a serious risk

Summary and Homework

- Migration changes the vendor, not the major version
- migrate2rocky (EL8) and migrate2rocky9 (EL9); no upgrades
- Plan: inventory, snapshot, test clone, window, console
- Run with -r, reboot, check /var/log/migrate2rocky.log
- Verify: rocky-release, repos, vendor count, services, apps
- Homework: migrate legacy1 to Rocky 9.9; compare packages and services before and after

Thank You! 🙏

Free videos & PDFs: www.MyWebUniversity.com

Slides for this lesson: MyWebUniversity.com/presentations

YouTube: @MyWebUniversity · @MyWebUniversity-Dari

Wahidullah Lutfy — Founder and Director of IT of MyWebUniversity, and CS teacher

Book: The Direct Path to Linux Ubuntu (Amazon · Barnes & Noble)

Learn it, then pass it on.