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Universal package manager

Snippet from [Wikipedia: **Package manager**](#)

A **package manager** or **package-management system** is a collection of software tools that automates the process of installing, upgrading, configuring, and removing computer programs for a computer in a consistent manner.

A package manager deals with *packages*, distributions of software and data in archive files. Packages contain metadata, such as the software's name, description of its purpose, version number, vendor, checksum (preferably a cryptographic hash function), and a list of dependencies necessary for the software to run properly. Upon installation, metadata is stored in a local package database. Package managers typically maintain a database of software dependencies and version information to prevent software mismatches and missing prerequisites. They work closely with software repositories, binary repository managers, and app stores.

Package managers are designed to eliminate the need for manual installs and updates. This can be particularly useful for large enterprises whose operating systems typically consist of hundreds or even tens of thousands of distinct software packages.

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Snippet from [Wikipedia: **Software repository**](#)

A **software repository**, or **repo** for short, is a storage location for software packages. Often a table of contents is also stored, along with metadata. A software repository is typically managed by source or version control, or repository managers. Package managers allow automatically installing and updating repositories, sometimes called "packages".

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Links:

- <https://xebialabs.com/the-ultimate-devops-tool-chest/repository-management/>

[kb](#), [devopspackaging](#), [ci](#)

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