| **Parameter** | **RPM (Red Hat Package Manager)** | **YUM (Yellow Dog Updater, Modified)** |
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| **Origin** | Introduced in 1997 by Red Hat. | Upgraded from YUP to YUM in 2003. |
| **Definition** | A low-level package manager with basic functionality. | A top-level front-end package manager with advanced functionality. |
| **Dependencies** | Does not resolve dependencies. | Resolves and installs package dependencies automatically. |
| **Package installation** | Allows multiple package versions to be installed. However, only a single package installation is possible at a time. | Doesn't allow multiple package versions to be installed. Only supports packages available in the repository and shows the already installed packages. On the other hand, YUM can install multiple packages simultaneously. |
| **Upgrades** | RPM doesn’t support automatic upgrades. | YUM allows automatic upgrades to the latest available version. |
| **Repository support** | RPM doesn't use an online repository for package installation. Instead, it requires the exact local *.rpm* package path to complete the installation. | YUM relies on an online repository for installing packages. The utility requires only the package name. |
| **Autonomy** | RPM is autonomous and utilizes its own database to keep information about the packages on the system. | YUM is a front-end utility that uses the RPM package manager for package management. The utility also uses the RPM database in the backend. |
| **Ease of use** | RPM package management and handling gets complicated at times. | It is the easiest way to manage RPM packages. |
| **Rollback** | RPM doesn't support change rollback. | YUM allows any changes to be rolled back. |