



### Basic Commands

#### Package Information

<code>yum info &lt;package&gt;</code>	Displays detailed information about a specific package, including its version, release, size, and description.  <b>Example:</b> <code>yum info httpd</code>
<code>yum list installed</code>	Lists all installed packages on the system.  <b>Example:</b> <code>yum list installed</code>
<code>yum list available</code>	Lists all packages available for installation from the configured repositories.  <b>Example:</b> <code>yum list available</code>
<code>yum list updates</code>	Lists available updates for installed packages.  <b>Example:</b> <code>yum list updates</code>
<code>yum search &lt;keyword&gt;</code>	Searches for packages based on a keyword in the package name or description.  <b>Example:</b> <code>yum search security</code>
<code>yum provides &lt;file&gt;</code>	Finds which package provides a specific file.  <b>Example:</b> <code>yum provides /usr/bin/ls</code>

#### Package Management

<code>yum install &lt;package&gt;</code>	Installs the specified package and its dependencies.  <b>Example:</b> <code>yum install vim</code>
<code>yum update &lt;package&gt;</code>	Updates the specified package to the latest available version.  <b>Example:</b> <code>yum update firefox</code>
<code>yum update</code>	Updates all installed packages to the latest available versions.  <b>Example:</b> <code>yum update</code>
<code>yum remove &lt;package&gt;</code>	Removes the specified package.  <b>Example:</b> <code>yum remove thunderbird</code>
<code>yum autoremove</code>	Removes orphaned dependencies that are no longer required.  <b>Example:</b> <code>yum autoremove</code>
<code>yum history</code>	Displays the history of YUM transactions.  <b>Example:</b> <code>yum history</code>

### Repository Management

#### Repository Configuration

Repository configuration files are located in <code>/etc/yum.repos.d/</code> . Each <code>.repo</code> file defines a repository.  <b>Example:</b> <code>/etc/yum.repos.d/epel.repo</code>
Key attributes in a <code>.repo</code> file: <ul style="list-style-type: none"> <li><code>[repositoryid]</code> - Unique ID for the repository.</li> <li><code>name</code> - Human-readable name for the repository.</li> <li><code>baseurl</code> - URL where package data is located.</li> <li><code>enabled</code> - Whether the repository is enabled (1) or disabled (0).</li> <li><code>gpgcheck</code> - Whether GPG signature checking is enabled (1) or disabled (0).</li> <li><code>gpgkey</code> - URL of the GPG key for verifying packages.</li> </ul>

#### Repository Commands

<code>yum repolist</code>	Lists all enabled repositories.  <b>Example:</b> <code>yum repolist</code>
<code>yum repoinfo &lt;repo&gt;</code>	Displays information about a specific repository.  <b>Example:</b> <code>yum repoinfo epel</code>
<code>yum --enablerepo=&lt;repo&gt; install &lt;package&gt;</code>	Enables a specific repository for a single command.  <b>Example:</b> <code>yum --enablerepo=epel install htop</code>
<code>yum --disablerepo=&lt;repo&gt; update</code>	Disables a specific repository for a single command.  <b>Example:</b> <code>yum --disablerepo=epel update</code>

#### Managing Repository Priorities

You can set priorities for repositories to prefer packages from certain repositories over others. This is done by installing the <code>yum-plugin-priorities</code> package and adding a <code>priority</code> option to the <code>.repo</code> file.  <b>Example:</b> <code>priority=1</code> (Higher priority)
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## Advanced Usage

### Package Groups

<code>yum groupinstall &lt;group&gt;</code>	Installs a group of related packages. <b>Example:</b> <code>yum groupinstall "Development Tools"</code>
<code>yum groupupdate &lt;group&gt;</code>	Updates packages within a group. <b>Example:</b> <code>yum groupupdate "Web Server"</code>
<code>yum grouplist</code>	Lists available package groups. <b>Example:</b> <code>yum grouplist</code>
<code>yum groupremove &lt;group&gt;</code>	Removes a group of packages. <b>Example:</b> <code>yum groupremove "Legacy UNIX Compatibility"</code>

### Downgrading Packages

<code>yum downgrade &lt;package&gt;</code>	Downgrades a package to the previous version. <b>Example:</b> <code>yum downgrade httpd</code>
<code>package -cleanup --oldkernel ls --count=2</code>	This command, often used in conjunction with YUM, removes old kernel packages, keeping only the specified number of latest kernels. This helps to free up disk space. <b>Example:</b> Keeping the two latest kernel versions: <code>package-cleanup --oldkernels --count=2</code>

### Other Useful Options

<code>yum clean all</code>	- Clears all cached package data.
<code>yum clean packages</code>	- Cleans only package files.
<code>yum clean headers</code>	- Cleans only package headers.
<code>yum check</code>	- Checks the RPM database for problems.
<code>yum reinstall &lt;package&gt;</code>	- Reinstalls the specified package. <b>Example:</b> <code>yum reinstall bash</code>

## Troubleshooting

### Common Issues

<b>Problem:</b> Package not found.
<b>Solution:</b> Ensure the repository containing the package is enabled. Use <code>yum repolist</code> to check and <code>--enablerepo</code> to enable it for the install command.
<b>Problem:</b> Dependency issues.
<b>Solution:</b> YUM usually resolves dependencies automatically. If issues persist, try <code>yum install yum-utils</code> followed by <code>package-cleanup --dupes</code> and <code>package-cleanup --problems</code> .
<b>Problem:</b> GPG key errors.
<b>Solution:</b> Import the correct GPG key for the repository. Find the key URL in the repo file and use <code>rpm --import &lt;keyurl&gt;</code> .

### YUM History

<code>yum history list</code>	Lists all YUM transactions with their IDs. <b>Example:</b> <code>yum history list</code>
<code>yum history info &lt;id&gt;</code>	Shows detailed information about a specific transaction. <b>Example:</b> <code>yum history info 5</code>
<code>yum history undo &lt;id&gt;</code>	Attempts to undo a specific transaction. <b>Example:</b> <code>yum history undo 7</code>
<code>yum history redo &lt;id&gt;</code>	Attempts to redo a specific transaction. <b>Example:</b> <code>yum history redo 8</code>