

Comparison of TwinCAT Package Manager (tcpkg), FreeBSD (pkg), and Debian (apt)

Here is a comparison of the TwinCAT Package Manager (tcpkg) commands alongside their equivalents in FreeBSD (pkg) and Debian-based Linux systems (apt).

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Function	TwinCAT (tcpkg)	FreeBSD (pkg)	Debian (apt)
List all available packages	<code>tcpkg list</code>	<code>pkg search</code>	<code>apt list</code>
List all versions of a package	<code>tcpkg list -a [PackageName]</code>	<code>pkg search -o [PackageName]</code>	<code>apt list -a [PackageName]</code>
List installed packages	<code>tcpkg list -i</code>	<code>pkg info</code>	<code>apt list --installed</code>
List upgradable packages	<code>tcpkg list -o</code>	<code>pkg version -v grep '<'</code>	<code>apt list --upgradable</code>
Show package details	<code>tcpkg show [PackageName]</code>	<code>pkg info [PackageName]</code>	<code>apt show [PackageName]</code>
Install a package	<code>tcpkg install [PackageName]</code>	<code>pkg install [PackageName]</code>	<code>apt install [PackageName]</code>
Install specific version	<code>tcpkg install [PackageName]=[Version]</code>	Not directly supported; use Ports or specify version if available	<code>apt install [PackageName]=[Version]</code>
Upgrade a package	<code>tcpkg upgrade [PackageName]</code>	<code>pkg upgrade [PackageName]</code>	<code>apt install --only-upgrade [PackageName]</code>
Upgrade all packages	<code>tcpkg upgrade all</code>	<code>pkg upgrade</code>	<code>apt upgrade</code>
Uninstall a package	<code>tcpkg uninstall [PackageName]</code>	<code>pkg delete [PackageName]</code>	<code>apt remove [PackageName]</code>
Uninstall with dependencies	<code>tcpkg uninstall [PackageName] --include-dependencies</code>	<code>pkg delete -R [PackageName]</code>	<code>apt autoremove [PackageName]</code>
Add a package source/feed	<code>tcpkg source add -n=[Name] -s=[URL] --priority=[Value]</code>	<code>pkg repo (edit /etc/pkg/FreeBSD.conf)</code>	Add entry to <code>/etc/apt/sources.list</code> or <code>.list.d/</code> file
Edit a package source/feed	<code>tcpkg source edit [Name] --priority=[NewValue]</code>	Edit <code>/etc/pkg/FreeBSD.conf</code> manually	Edit corresponding <code>.list</code> file in <code>/etc/apt/sources.list.d/</code>
Enable/disable a package source	<code>tcpkg source edit [Name] --enabled true/false</code>	Edit <code>/etc/pkg/FreeBSD.conf</code> manually	Use <code>apt-add-repository</code> or comment out entries in <code>.list</code> files
Set configuration options	<code>tcpkg config set -n [Option]</code>	Not applicable	Not applicable
Unset configuration options	<code>tcpkg config unset -n [Option]</code>	Not applicable	Not applicable

Notes

- **FreeBSD (pkg):** Installing specific versions is not directly supported; use the [Ports Collection](#) or specify version if available.
- **Debian (apt):** Specific versions can be installed with `apt install [Package]=[Version]` , if that version exists in your enabled repositories.
- **Package Sources/Feeds:** Managing package sources in FreeBSD and Debian typically requires editing config files manually. Debian provides helper tools like `add-apt-repository` to ease the process.