



Basic Commands

Connecting to the Server

p4 info	Displays information about the Perforce server and client configuration.
p4 login	Authenticates the user with the Perforce server.
p4 set P4PORT= <server:p ort></server:p 	Sets the Perforce server address. Example: p4 set P4PORT=perforce.example.com:166
p4 set P4USER= <username></username>	Sets the Perforce username. Example: p4 set P4USER=johndoe
p4 set P4CLIENT= <workspac e=""></workspac>	Sets the Perforce workspace (client). Example: p4 set P4CLIENT=johndoe_dev

Workspace Management

p4 client	Opens the client specification form for editing. Allows you to configure the workspace.
p4 client s	Lists all client workspaces known to the Perforce server.
p4 sync	Synchronizes the workspace with the latest version of files from the depot.
<pre>p4 sync <file(s)=""></file(s></pre>	Synchronizes specific files to the latest version.
p4 sync @label	Synchronizes the workspace to a specific label.
p4 sync #have	Synchronizes the workspace to the revisions you had previously synced.

Adding and Deleting Files

p4 add <file(s< th=""><th>Marks new files for addition to the depot.</th></file(s<>	Marks new files for addition to the depot.
<pre>p4 delete <file(s)=""></file(s></pre>	Marks files for deletion from the depot.
p4 reconci le	Detects files that have been added, deleted, or modified outside of Perforce and prepares them for submission.

Change Management

Making Changes

p4 edit <file(s)></file(Opens files for editing. Required before modifying a file under Perforce control.
<pre>p4 revert <file(s)=""></file(></pre>	Discards changes made to opened files, reverting them to the last synced version.
p4 diff <file(s)></file(Displays the differences between the workspace version and the depot version of a file.
p4 resolv e <file(s)=""></file(>	Resolves conflicts between the workspace version and the depot version of a file after an update or merge. Important to do before submitting.

Submitting Changes

p4 change	Opens a new changelist for grouping related changes.
p4 submit	Submits the opened files in the current or specified changelist to the depot.
p4 submit -d " <descriptio n="">"</descriptio>	Submits the changes with a description from command line.
p4 changes	Lists recent changelists.
<pre>p4 describe <changelist #=""></changelist></pre>	Describes a specific changelist, showing the files included and the description.

Branching and Merging

p4 integrate <fromfile> <tofile></tofile></fromfile>	Prepares files for merging changes from one branch to another.
p4 merge <fromfile> <tofile></tofile></fromfile>	Merges changes from one branch to another (older command).
p4 resolve	Resolves any conflicts after the integration/merge. Crucial before submitting!
p4 branch	Creates a new branch specification.

Advanced Operations

Labels and Attributes

p4 label	Creates or modifies a label specification.
p4 labels	Lists available labels.
<pre>(p4 tag <file(s)>@<labe 1="">)</labe></file(s)></pre>	Attaches a label to specific file revisions.
p4 attribute	Sets or retrieves file attributes.

Streams

p4 streams	Lists available streams.
p4 stream	Creates or modifies a stream specification.
p4 switch <stream></stream>	Switches the workspace to a different stream.
p4 merge and p4 copy	Used for propagating changes between streams.

User and Group Management

p4 user	Creates or modifies a user specification (requires admin privileges).
p4 grou p	Creates or modifies a group specification (requires admin privileges).
p4 user	Lists all users.

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Troubleshooting and Tips

Common Issues

Conflicts during submit: Always p4 resolve before submitting. Use p4 diff to understand the changes.

Workspace out of date: Ensure you p4 sync regularly to keep your workspace up-to-date.

Permissions issues: Check file permissions and ensure the Perforce user has appropriate access.

Network connectivity: Verify network connectivity to the Perforce server. Use p4 info to check the connection.

Best Practices

Atomic Changesets: Group related changes into a single changelist for better tracking and management.

Descriptive Comments: Provide clear and concise descriptions for each changelist.

Regular Synchronization: Keep your workspace synchronized with the depot to avoid conflicts and integration issues.

Branching Strategy: Develop a clear branching strategy to manage different development streams and releases.

Command Aliases (Example)

You can create aliases for frequently used commands for efficiency. For example, in bash:

alias psync='p4 sync'
alias psubmit='p4 submit'

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