

Tool access control, from safest to most permissive

Available Modes

Mode	Canonical name	Activation	Recommended use
Default	default	(none)	Daily development
Auto-accept edits	acceptEdits	Shift+Tab	Code reviews
Plan	plan	Shift+Tab x2 or /plan	Analysis without modification
Don't Ask	dontAsk	/permissions or permissions.allow rules	Restrictive workflows, silent auto-deny if not pre-approved
Auto (AI classifier)	auto	permissions.defaultMode "auto"	Long tasks, fewer interruptions
Full bypass	bypassPermissions	--dangerously-skip-permissions	Headless CI/CD, sandboxed
Fewer — prompts		/fewer-permission-prompts	Generates an allowlist from transcripts (shipped as /less-permission-prompts in v2.1.111)

CLI activation: `claude --permission-mode <mode>` accepts `default` , `plan` , `acceptEdits` , `bypassPermissions` . **Persistent activation:** `permissions.defaultMode` key in `settings.json` .

Note: `--dangerously-skip-permissions` no longer prompts for writes to `.claude/skills/` , `.claude/agents/` , and `.claude/commands/` (v2.1.121); the rest of `.claude/` (settings, hooks) and `.git/` stay protected even under full bypass. The `auto` mode relies on a classifier model that evaluates each tool call before execution, less friction, not a security boundary.

Tool Whitelist

```
# Allow only specific tools
claude --allowedTools "Read,Grep,Glob"

# Block specific tools
claude --disallowedTools "Bash,Write"

# Useful combinations
claude --allowedTools "Read,Edit,Bash(git)"
```

Configuration in settings.json

```
{
  "permissions": {
    "allow": [
      "Bash(git log)" ,
      "Bash(npm test)" ,
      "Read" ,
      "Edit"
    ] ,
    "deny": [
      "Bash(rm)" ,
      "Bash(sudo*)"
    ]
  }
}
```

Permission Hierarchy

Permissions accumulate and are inherited in this order:

- `~/claude/settings.json` : global user
- `.claude/settings.json` : project (shared)
- `.claude/settings.local.json` : project (local, gitignored)
- CLI flags: session only

Glob Patterns for Bash

```
# Allow git only
"Bash(git *)"

# Allow npm test and build
"Bash(npm test)" , "Bash(npm run build)"

# Allow file reading
"Bash(cat *)" , "Bash(ls *)"
```

Best Practices

CI/CD: Always use `--dangerously-skip-permissions` with a sandboxed environment (Docker, ephemeral container). Never on a shared production machine.

Sensitive projects: Restrict Bash tools with precise globs in `.claude/settings.json` . Commit this file so the whole team uses the same constraints.

Audit: Claude's actions are logged in `~/claude/logs/` . Verifiable at any time.