

APPENDIX E

Environment Variables

353 variables, alphabetical. Set them in the shell before launching, or in the env block of a settings file, which wins over the shell. Chapter 22 covers the ones that turn features off.

Generated from the official docs snapshot of 2026-09-01 (Claude Code v2.1.257) by tools/gen_appendices.py. Do not edit by hand; rerun the script for the next edition.

- ANTHROPIC_API_KEY: API key sent as X-API-Key; overrides subscription
- ANTHROPIC_AUTH_TOKEN: custom Authorization header value, prefixed Bearer
- ANTHROPIC_AWS_API_KEY: Claude Platform on AWS workspace key, sent x-api-key
- ANTHROPIC_AWS_BASE_URL: override Claude Platform on AWS endpoint URL
- ANTHROPIC_AWS_WORKSPACE_ID: required AWS workspace ID, anthropic-workspace-id header
- ANTHROPIC_BASE_URL: route API through proxy/gateway; disables tool search, Remote Control
- ANTHROPIC_BEDROCK_BASE_URL: override Amazon Bedrock endpoint URL
- ANTHROPIC_BEDROCK_MANTLE_BASE_URL: override Bedrock Mantle endpoint URL
- ANTHROPIC_BEDROCK_REGION_PREFIX: cross-region inference profile prefix tried first (v2.1.224+)
- ANTHROPIC_BEDROCK_SERVICE_TIER: Bedrock service tier default/flex/priority

- **ANTHROPIC_BETAS:** extra anthropic-beta header values, works with all auth
- **ANTHROPIC_CUSTOM_HEADERS:** custom request headers, Name: Value, newline-separated
- **ANTHROPIC_CUSTOM_MODEL_OPTION:** model ID added to /model picker
- **ANTHROPIC_CUSTOM_MODEL_OPTION_DESCRIPTION:** description for custom picker entry
- **ANTHROPIC_CUSTOM_MODEL_OPTION_NAME:** display name for custom picker entry
- **ANTHROPIC_CUSTOM_MODEL_OPTION_SUPPORTED_CAPABILITIES:** capabilities list, e.g. effort, thinking
- **ANTHROPIC_DEFAULT_FABLE_MODEL:** model ID for fable alias and fallback detection
- **ANTHROPIC_DEFAULT_FABLE_MODEL_DESCRIPTION:** picker description for pinned Fable model
- **ANTHROPIC_DEFAULT_FABLE_MODEL_NAME:** picker display name for pinned Fable model
- **ANTHROPIC_DEFAULT_FABLE_MODEL_SUPPORTED_CAPABILITIES:** pinned Fable model capabilities list
- **ANTHROPIC_DEFAULT_HAIKU_MODEL:** model ID for haiku alias and background tasks
- **ANTHROPIC_DEFAULT_HAIKU_MODEL_DESCRIPTION:** picker description for pinned Haiku model
- **ANTHROPIC_DEFAULT_HAIKU_MODEL_NAME:** picker display name for pinned Haiku model
- **ANTHROPIC_DEFAULT_HAIKU_MODEL_SUPPORTED_CAPABILITIES:** pinned Haiku model capabilities list
- **ANTHROPIC_DEFAULT_MODEL:** default model for new sessions (v2.1.236+)
- **ANTHROPIC_DEFAULT_OPUS_MODEL:** model ID for opus alias; opusplan in Plan Mode
- **ANTHROPIC_DEFAULT_OPUS_MODEL_DESCRIPTION:** picker description; (1M context) default if [1m] suffix
- **ANTHROPIC_DEFAULT_OPUS_MODEL_NAME:** picker display name for pinned Opus model
- **ANTHROPIC_DEFAULT_OPUS_MODEL_SUPPORTED_CAPABILITIES:** pinned Opus model capabilities list
- **ANTHROPIC_DEFAULT_SONNET_MODEL:** model ID for sonnet alias; opusplan outside Plan Mode
- **ANTHROPIC_DEFAULT_SONNET_MODEL_DESCRIPTION:** picker description for pinned Sonnet model

- **ANTHROPIC_DEFAULT_SONNET_MODEL_NAME:** picker display name for pinned Sonnet model
- **ANTHROPIC_DEFAULT_SONNET_MODEL_SUPPORTED_CAPABILITIES:** pinned Sonnet model capabilities list
- **ANTHROPIC_FEDERATION_RULE_ID:** Workload Identity Federation rule ID; with org ID selects federation
- **ANTHROPIC_FOUNDRY_API_KEY:** Microsoft Foundry API key
- **ANTHROPIC_FOUNDRY_AUTH_TOKEN:** Foundry bearer token (Entra); beats API key (v2.1.203+)
- **ANTHROPIC_FOUNDRY_BASE_URL:** full Foundry resource base URL
- **ANTHROPIC_FOUNDRY_RESOURCE:** Foundry resource name; required without base URL
- **ANTHROPIC_MODEL:** model setting name to use
- **ANTHROPIC_ORGANIZATION_ID:** organization ID for Workload Identity Federation
- **ANTHROPIC_PROFILE:** Anthropic profile name to authenticate with (ant auth login)
- **ANTHROPIC_SMALL_FAST_MODEL:** Haiku-class model for background tasks [deprecated]
- **ANTHROPIC_SMALL_FAST_MODEL_AWS_REGION:** AWS region override for Haiku-class model on Bedrock
- **ANTHROPIC_VERTEX_BASE_URL:** override Google Cloud Agent Platform endpoint URL
- **ANTHROPIC_VERTEX_PROJECT_ID:** GCP project ID; overridden by G_CLOUD_PROJECT, GOOGLE_CLOUD_PROJECT, GOOGLE_APPLICATION_CREDENTIALS
- **ANTHROPIC_WORKSPACE_ID:** workspace ID for federation rules spanning workspaces
- **API_FORCE_IDLE_TIMEOUT:** 0 off / 1 on for 5-minute body idle timeout (v2.1.169+)
- **API_TIMEOUT_MS:** API request timeout ms; default 600000, max 2147483647
- **AWS_BEARER_TOKEN_BEDROCK:** Amazon Bedrock API key authentication
- **BASH_DEFAULT_TIMEOUT_MS:** default bash command timeout; default 120000
- **BASH_MAX_OUTPUT_LENGTH:** bash output chars read back; default 30000, max 150000
- **BASH_MAX_TIMEOUT_MS:** max model-settable bash timeout; default 600000
- **BETA_TRACING_ENDPOINT:** OTLP endpoint for detailed beta tracing; ignored project/local [beta]
- **CCR_FORCE_BUNDLE:** 1 forces `claude --cloud` to bundle-upload local repo
- **CLAUDECODE:** 1 in Claude Code-spawned subprocesses and IDE terminals

- `CLAUDE_AFK_COUNTDOWN_MS`: ms before auto-continue countdown shows; default 20000 (v2.1.198+)
- `CLAUDE_AFK_TIMEOUT_MS`: idle ms before AskUserQuestion auto-continues; overrides askUserQuestionTimeout
- `CLAUDE_AGENT_SDK_DISABLE_BUILTIN_AGENTS`: 1 disables built-in subagents in -p mode
- `CLAUDE_AGENT_SDK_MCP_NO_PREFIX`: 1 skips mcp__<server>__ prefix on SDK MCP tools
- `CLAUDE_ASYNC_AGENT_STALL_TIMEOUT_MS`: background subagent stall timeout; default 600000
- `CLAUDE_AUTOCOMPACT_PCT_OVERRIDE`: percentage (1-100) of auto-compact window triggering compaction; lower only
- `CLAUDE_AUTO_BACKGROUND_TASKS`: 1 force-enables auto-backgrounding of long agent/MCP tasks
- `CLAUDE_AX_PREPARK_MS`: screen reader mode pre-write wait; default 50, cap 5000 (v2.1.233+)
- `CLAUDE_AX_SCREEN_READER`: 1 screen-reader output; 0 forces off; --ax-screen-reader wins
- `CLAUDE_AX_STARTUP_QUIET_MS`: screen reader startup render hold; default 3000 (v2.1.217+)
- `CLAUDE_BASH_MAINTAIN_PROJECT_WORKING_DIR`: return to original cwd after each Bash/PowerShell command
- `CLAUDE_BYTE_STREAM_IDLE_TIMEOUT_MS`: byte-level stream watchdog timeout; clamped 10s-30min (v2.1.210+)
- `CLAUDE_CLIENT_PRESENCE_FILE`: file path whose existence suppresses Remote Control push notifications
- `CLAUDE_CODE_ACCESSIBILITY`: 1 keeps native terminal cursor visible for magnifiers
- `CLAUDE_CODE_ADDITIONAL_DIRECTORIES_CLAUDE_MD`: 1 loads memory files from --add-dir directories
- `CLAUDE_CODE_ALT_SCREEN_FULL_REPAINT`: 1 repaints whole screen each frame in full-screen
- `CLAUDE_CODE_ALWAYS_ENABLE_EFFORT`: 1 sends effort parameter for unrecognized model IDs
- `CLAUDE_CODE_API_KEY_HELPER_TTL_MS`: credential refresh interval for apiKeyHelper

- `CLAUDE_CODE_ARTIFACT_AUTO_OPEN`: 0 stops browser auto-open on new artifact publish
- `CLAUDE_CODE_ARTIFACT_COMMENTS`: 0 stops reading/replying to artifact comments (v2.1.221+)
- `CLAUDE_CODE_ARTIFACT_COMMENTS_AUTOREACT`: 0 stops Claude auto-replying to comments (v2.1.228+)
- `CLAUDE_CODE_ATTRIBUTION_HEADER`: 0 omits system prompt attribution block
- `CLAUDE_CODE_AUTO_BACKGROUND_WORKER_CHECKIN_SECONDS`: seconds between background subagent check-in reminders, 1-86400 (v2.1.248+)
- `CLAUDE_CODE_AUTO_COMPACT_WINDOW`: auto-compact window tokens, 100000-1000000, plain integer only
- `CLAUDE_CODE_AUTO_CONNECT_IDE`: false prevents / true forces IDE auto-connect
- `CLAUDE_CODE_AWS_CHAIN_RESOLVE_TIMEOUT_MS`: AWS default credential chain wait; default 60000 (v2.1.207+)
- `CLAUDE_CODE_BRIDGE_SESSION_ID`: auto-set session_ID during Remote Control connection (v2.1.199+)
- `CLAUDE_CODE_BS_AS_CTRL_BACKSPACE`: 0/1 reads 0x08 as Backspace/Ctrl+Backspace
- `CLAUDE_CODE_CERT_STORE`: CA sources bundled, system; default bundled, system
- `CLAUDE_CODE_CHILD_SESSION`: 1 in Bash/PowerShell/Monitor/hook/statusline subprocesses; marks nested sessions (v2.1.172+)
- `CLAUDE_CODE_CLIENT_CERT`: client certificate path for mTLS
- `CLAUDE_CODE_CLIENT_KEY`: client private key path for mTLS
- `CLAUDE_CODE_CLIENT_KEY_PASSPHRASE`: passphrase for encrypted client key
- `CLAUDE_CODE_CONNECT_TIMEOUT_MS`: removed in v2.1.186, no-op; use `API_TIMEOUT_MS`
- `CLAUDE_CODE_DEBUG_LOGS_DIR`: debug log file path (not directory); needs debug mode
- `CLAUDE_CODE_DEBUG_LOG_LEVEL`: verbose/debug/info/warn/error; default debug
- `CLAUDE_CODE_DISABLE_1M_CONTEXT`: 1 disables 1M context; holds native-1M models to 200K
- `CLAUDE_CODE_DISABLE_ADAPTIVE_THINKING`: 1 disables adaptive reasoning on Opus/Sonnet 4.6
- `CLAUDE_CODE_DISABLE_ADMIN_ENV_UNION`: 1 stops per-key merging of managed env blocks (v2.1.223+)

- `CLAUDE_CODE_DISABLE_ADVISOR_TOOL`: 1 disables advisor tool, `/advisor`, `advisorModel`
- `CLAUDE_CODE_DISABLE_AGENT_VIEW`: 1 turns off `claude agents`, `--bg`, `/background`, `supervisor`
- `CLAUDE_CODE_DISABLE_ALTERNATE_SCREEN`: 1 disables fullscreen rendering; classic renderer
- `CLAUDE_CODE_DISABLE_ARTIFACT`: 1 turns off Artifact tool permanently for session
- `CLAUDE_CODE_DISABLE_ATTACHMENTS`: 1 sends @ file mentions as plain text
- `CLAUDE_CODE_DISABLE_AUTO_MEMORY`: 1 disables auto memory; 0 forces on
- `CLAUDE_CODE_DISABLE_BACKGROUND_TASKS`: 1 disables all background tasks and `Ctrl+B`
- `CLAUDE_CODE_DISABLE_BEDROCK_CONTENT_TYPE_DEFAULT`: 1 stops treating missing `Content-Type` as eventstream (v2.1.239+)
- `CLAUDE_CODE_DISABLE_BEDROCK_CONTENT_TYPE_GUARD`: 1 skips Bedrock application/`vnd.amazon.eventstream` check (v2.1.208+)
- `CLAUDE_CODE_DISABLE_BG_EXIT_HANDOFF`: 1 stops background work handoff on supervisor restart (v2.1.196+)
- `CLAUDE_CODE_DISABLE_BG_SHELL_PRESSURE_REAP`: 1 stops memory-pressure termination of background shells (v2.1.193+)
- `CLAUDE_CODE_DISABLE_BUNDLED_SKILLS`: 1 removes bundled skills and workflows
- `CLAUDE_CODE_DISABLE_CLAUDE_MDS`: 1 prevents loading any `CLAUDE.md` memory files
- `CLAUDE_CODE_DISABLE_CRON`: 1 disables scheduled tasks, `/loop`, cron tools
- `CLAUDE_CODE_DISABLE_EXPERIMENTAL_BETAS`: 1 strips anthropic-beta headers and beta schema fields
- `CLAUDE_CODE_DISABLE_EXPLORE_PLAN_AGENTS`: 1 disables built-in Explore and Plan subagents (v2.1.198+)
- `CLAUDE_CODE_DISABLE_FAST_MODE`: 1 disables fast mode
- `CLAUDE_CODE_DISABLE_FEEDBACK_SURVEY`: 1 disables “How is Claude doing?” surveys
- `CLAUDE_CODE_DISABLE_FILE_CHECKPOINTING`: 1 disables checkpointing; `/rewind` cannot restore code
- `CLAUDE_CODE_DISABLE_GIT_INSTRUCTIONS`: 1 removes built-in commit/PR instructions from prompt
- `CLAUDE_CODE_DISABLE_LEGACY_MODEL_REMAP`: 1 stops remapping Opus 4.0/4.1 to current

- `CLAUDE_CODE_DISABLE_MOUSE`: 1 disables mouse tracking in fullscreen
- `CLAUDE_CODE_DISABLE_MOUSE_CLICKS`: 1 disables clicks/drag/hover, keeps wheel scroll (v2.1.195+)
- `CLAUDE_CODE_DISABLE_MTLS_RELOAD_ON_STALE_CONNECTION`: 1 stops mTLS cert re-read on connection errors (v2.1.232+)
- `CLAUDE_CODE_DISABLE_NONESSENTIAL_TRAFFIC`: any value disables updates, telemetry, feedback, feature flags
- `CLAUDE_CODE_DISABLE_NONSTREAMING_FALLBACK`: 1 disables non-streaming fallback on mid-stream failure
- `CLAUDE_CODE_DISABLE_NOTIFICATION_PRESENCE_CHECK`: 1 sends PushNotification desktop alert even when active (v2.1.193+)
- `CLAUDE_CODE_DISABLE_OFFICIAL_MARKETPLACE_AUTOINSTALL`: 1 permanently skips official marketplace registration
- `CLAUDE_CODE_DISABLE_PERMISSION_PROMPT_NOTIFY_HOOKS`: 1 stops Notification hooks in `canUseTool` sessions (v2.1.233+)
- `CLAUDE_CODE_DISABLE_POLICY_SKILLS`: 1 skips system-wide managed skills directory
- `CLAUDE_CODE_DISABLE_TERMINAL_TITLE`: 1 disables terminal title updates and title request
- `CLAUDE_CODE_DISABLE_THINKING`: 1 omits thinking parameter for proxies
- `CLAUDE_CODE_DISABLE_UNKNOWN_MODEL_WINDOW_ENFORCEMENT`: 1 skips auto-compaction for unrecognized model IDs (v2.1.223+)
- `CLAUDE_CODE_DISABLE_VIRTUAL_SCROLL`: 1 renders every message in fullscreen
- `CLAUDE_CODE_DISABLE_WORKFLOWS`: 1 disables workflows; equals `disableWorkflows`
- `CLAUDE_CODE_EFFORT_LEVEL`: low/medium/high/xhigh/max/auto; beats `--effort`, `/effort`
- `CLAUDE_CODE_ENABLE_APPEND_SUBAGENT_PROMPT`: 1 enables `--append-subagent-system-prompt` appending (v2.1.205+)
- `CLAUDE_CODE_ENABLE_AUTO_MODE`: no effect; compatibility only (needed v2.1.158-v2.1.206)
- `CLAUDE_CODE_ENABLE_AWAY_SUMMARY`: 0/1 forces session recap off/on
- `CLAUDE_CODE_ENABLE_BACKGROUND_PLUGIN_REFRESH`: 1 refreshes plugin state at turn boundaries in `-p`

- `CLAUDE_CODE_ENABLE_FEEDBACK_SURVEY_FOR_OTEL`: 1 routes survey ratings to OTEL collector only
- `CLAUDE_CODE_ENABLE_FINE_GRAINED_TOOL_STREAMING`: 0 opt out / 1 force tool input streaming
- `CLAUDE_CODE_ENABLE_GATEWAY_MODEL_DISCOVERY`: 1 populates `/model` from gateway / `v1/models`
- `CLAUDE_CODE_ENABLE_OPUS_4_7_FAST_MODE`: removed in v2.1.142
- `CLAUDE_CODE_ENABLE_PROMPT_SUGGESTION`: false turns off prompt suggestions (v2.1.238+)
- `CLAUDE_CODE_ENABLE_TASKS`: 0 gives legacy `TodoWrite` instead of `TaskCreate/TaskUpdate/TaskGet/TaskList`
- `CLAUDE_CODE_ENABLE_TELEMETRY`: 1 enables OpenTelemetry metrics and logging
- `CLAUDE_CODE_ENABLE_TODO_TOOLS`: 1 adds task tools on models otherwise excluded (v2.1.233+)
- `CLAUDE_CODE_EXIT_AFTER_STOP_DELAY`: ms idle after query loop before auto-exit (SDK)
- `CLAUDE_CODE_EXPERIMENTAL_AGENT_TEAMS`: 1 enables agent teams [experimental]
- `CLAUDE_CODE_EXTRA_BODY`: JSON merged into every API request body
- `CLAUDE_CODE_FILE_READ_MAX_OUTPUT_TOKENS`: override file read token limit
- `CLAUDE_CODE_FORCE_SESSION_PERSISTENCE`: 1 forces persistence when misclassified as nested
- `CLAUDE_CODE_FORCE_STRIKETHROUGH`: 1 forces `~text~` strikethrough rendering (v2.1.186+)
- `CLAUDE_CODE_FORCE_SYNC_OUTPUT`: 1 force-enables DEC mode 2026 synchronized output
- `CLAUDE_CODE_FORK_SUBAGENT`: 1/0 turns fork mode on in `-p/off` everywhere
- `CLAUDE_CODE_FORWARD_SUBAGENT_TEXT`: 1 emits subagent text in stream-json output (v2.1.211+)
- `CLAUDE_CODE_GIT_BASH_PATH`: Windows path to Git Bash `bash.exe`
- `CLAUDE_CODE_GLOB_HIDDEN`: false excludes dotfiles from Glob tool
- `CLAUDE_CODE_GLOB_NO_IGNORE`: false makes Glob respect `.gitignore`
- `CLAUDE_CODE_GLOB_TIMEOUT_SECONDS`: Glob timeout; default 20, 60 on WSL

- `CLAUDE_CODE_GOAL_CHECKIN_MINUTES`: minutes before goal check-in; default 30, max 10080 (v2.1.234+)
- `CLAUDE_CODE_HIDE_CWD`: 1 hides working directory in startup logo
- `CLAUDE_CODE_IDE_HOST_OVERRIDE`: override IDE extension host address
- `CLAUDE_CODE_IDE_SKIP_AUTO_INSTALL`: 1 skips IDE extension auto-install
- `CLAUDE_CODE_IDE_SKIP_VALID_CHECK`: 1 skips IDE lockfile validation
- `CLAUDE_CODE_MAX_CONCURRENT_SUBAGENTS`: concurrent subagent cap; default 20 (v2.1.217+)
- `CLAUDE_CODE_MAX_CONTEXT_TOKENS`: override assumed context window size
- `CLAUDE_CODE_MAX_OUTPUT_TOKENS`: max output tokens; 32000 default for unknown IDs
- `CLAUDE_CODE_MAX_RETRIES`: API retry count; default 10, capped 15
- `CLAUDE_CODE_MAX_SUBAGENTS_PER_SESSION`: removed in v2.1.224, no-op (was 200 cap)
- `CLAUDE_CODE_MAX_SUBAGENT_SPAWN_DEPTH`: subagent nesting layers; default 3 (v2.1.217+)
- `CLAUDE_CODE_MAX_TOOL_USE_CONCURRENCY`: parallel read-only tools/subagents; default 10
- `CLAUDE_CODE_MAX_TURNS`: cap agentic turns; --max-turns wins
- `CLAUDE_CODE_MAX_WEB_SEARCHES_PER_SESSION`: WebSearch cap; default 200 (v2.1.212+)
- `CLAUDE_CODE_MCP_ALLOWLIST_ENV`: 1 spawns stdio MCP servers with baseline environment only
- `CLAUDE_CODE_MCP_AUTO_BACKGROUND_MS`: ms before MCP call backgrounds; default 120000 (v2.1.212+)
- `CLAUDE_CODE_MCP_TOOL_IDLE_TIMEOUT`: MCP tool idle timeout ms; 0 disables (v2.1.187+)
- `CLAUDE_CODE_MESSAGING_SOCKET`: auto-set inbox socket path for hooks/Bash (v2.1.224+)
- `CLAUDE_CODE_MESSAGING_TOKEN`: auto-set per-session inbox auth token (v2.1.228+)
- `CLAUDE_CODE_NATIVE_CURSOR`: 1 shows terminal's own cursor at caret
- `CLAUDE_CODE_NEW_INIT`: 1 makes /init run interactive setup flow
- `CLAUDE_CODE_NO_FLICKER`: 1 enables fullscreen rendering [research preview]

- `CLAUDE_CODE_OAUTH_REFRESH_TOKEN`: refresh token for claude auth login without browser
- `CLAUDE_CODE_OAUTH_SCOPES`: space-separated scopes; required with refresh token
- `CLAUDE_CODE_OAUTH_TOKEN`: OAuth access token from claude setup-token
- `CLAUDE_CODE_OPUS_4_6_FAST_MODE_OVERRIDE`: removed in v2.1.160, no-op
- `CLAUDE_CODE_OTEL_CONTENT_MAX_LENGTH`: OTEL content attribute cap; default 61440 (v2.1.214+)
- `CLAUDE_CODE_OTEL_DIAG_STDERR`: 1 writes OTEL exporter errors to stderr (v2.1.179+)
- `CLAUDE_CODE_OTEL_FLUSH_TIMEOUT_MS`: OTEL span flush timeout; default 5000
- `CLAUDE_CODE_OTEL_HEADERS_HELPER_DEBOUNCE_MS`: dynamic OTEL header refresh; default 1740000
- `CLAUDE_CODE_OTEL_SHUTDOWN_TIMEOUT_MS`: OTEL exporter shutdown timeout; default 2000
- `CLAUDE_CODE_PACKAGE_MANAGER_AUTO_UPDATE`: 1 runs Homebrew/WinGet upgrade in background
- `CLAUDE_CODE_PERFORCE_MODE`: 1 fails edits on read-only files with p4 edit hint
- `CLAUDE_CODE_PLUGIN_CACHE_DIR`: plugins root directory; default ~/.claude/plugins
- `CLAUDE_CODE_PLUGIN_GIT_TIMEOUT_MS`: plugin git operation timeout; default 120000
- `CLAUDE_CODE_PLUGIN_KEEP_MARKETPLACE_ON_FAILURE`: 1 keeps marketplace cache when git pull fails
- `CLAUDE_CODE_PLUGIN_PREFER_HTTPS`: 1 clones owner/repo over HTTPS not SSH
- `CLAUDE_CODE_PLUGIN_SEED_DIR`: read-only plugin seed directories for containers
- `CLAUDE_CODE_POWERSHELL_RESPECT_EXECUTION_POLICY`: 1 stops -ExecutionPolicy Bypass on PowerShell spawn
- `CLAUDE_CODE_PRINT_BG_WAIT_CEILING_MS`: -p idle wait ceiling for background tasks; default 600000 (v2.1.182+)
- `CLAUDE_CODE_PROCESS_WRAPPER`: corporate launcher argv prefix for spawned processes (v2.1.208+)
- `CLAUDE_CODE_PROJECT_DIR_NAME`: projects/ directory name with CLAUDE_CONFIG_DIR (v2.1.234+)
- `CLAUDE_CODE_PROMPT_CACHE_TTL`: 5m/1h main conversation cache TTL (v2.1.242+)

- `CLAUDE_CODE_PROPAGATE_TRACEPARENT`: 1 propagates traceparent header and `TRACEPARENT` via proxy
- `CLAUDE_CODE_PROVIDER_MANAGED_BY_HOST`: host-set; ignores provider/auth/model variables in settings
- `CLAUDE_CODE_PROXY_RESOLVES_HOSTS`: 1 lets proxy perform DNS resolution
- `CLAUDE_CODE_REMOTE`: auto true in cloud sessions
- `CLAUDE_CODE_REMOTE_SESSION_ID`: auto-set cloud session ID
- `CLAUDE_CODE_RESTRICTED`: 1 starts restricted mode like `--restricted` (v2.1.248+)
- `CLAUDE_CODE_RESUME_INTERRUPTED_TURN`: 1 auto-resumes session that ended mid-turn (SDK)
- `CLAUDE_CODE_RESUME_INTERRUPTED_TURN_MAX_AGE_MS`: max transcript age for auto-resume (v2.1.211+)
- `CLAUDE_CODE_RESUME_PROMPT`: continuation message override; default Continue from where you left off.
- `CLAUDE_CODE_RETRY_WATCHDOG`: 1 retries 429/529 indefinitely for unattended sessions (v2.1.186+)
- `CLAUDE_CODE_SAFE_MODE`: 1 starts safe mode, like `--safe-mode`
- `CLAUDE_CODE_SCRIPT_CAPS`: JSON per-script call limits with env scrub
- `CLAUDE_CODE_SCROLL_SPEED`: fullscreen wheel scroll multiplier, up to 20
- `CLAUDE_CODE_SEND_FEEDBACK`: 0 turns off Claude-drafted feedback
- `CLAUDE_CODE_SESSIONEND_HOOKS_TIMEOUT_MS`: SessionEnd hooks budget; default 1.5s, up to 60s
- `CLAUDE_CODE_SESSION_ID`: auto-set session ID in tool/hook/MCP subprocesses
- `CLAUDE_CODE_SHELL`: bash or zsh binary path for Bash tool
- `CLAUDE_CODE_SHELL_PREFIX`: wrapper command receiving shell command in \$1
- `CLAUDE_CODE_SIMPLE`: 1 minimal prompt, Bash/read/edit only; equals `--bare`
- `CLAUDE_CODE_SIMPLE_SYSTEM_PROMPT`: 1 shorter system prompt; 0/false/no/off opt out
- `CLAUDE_CODE_SKIP_ANTHROPIC_AWS_AUTH`: skip client auth for Claude Platform on AWS
- `CLAUDE_CODE_SKIP_AWS_CRED_CACHE`: 1 resolves AWS chain every request (v2.1.207+)
- `CLAUDE_CODE_SKIP_BEDROCK_AUTH`: skip AWS auth for Bedrock (gateway)

- `CLAUDE_CODE_SKIP_FAST_MODE_NETWORK_ERRORS`: 1 treats failed fast mode check as available
- `CLAUDE_CODE_SKIP_FAST_MODE_ORG_CHECK`: 1 skips client-side fast mode check
- `CLAUDE_CODE_SKIP_FOUNDRY_AUTH`: skip Azure auth for Foundry; gateway injects Authorization
- `CLAUDE_CODE_SKIP_MANTLE_AUTH`: skip AWS auth for Bedrock Mantle
- `CLAUDE_CODE_SKIP_PROMPT_HISTORY`: 1 skips writing history and transcripts
- `CLAUDE_CODE_SKIP_VERTEX_AUTH`: skip Google auth for Agent Platform (gateway)
- `CLAUDE_CODE_STOP_HOOK_BLOCK_CAP`: consecutive Stop/SubagentStop blocks; default 8, 0 off
- `CLAUDE_CODE_SUBAGENT_MODEL`: default model for subagents, teammates, workflow agents
- `CLAUDE_CODE_SUBAGENT_PROMPT_CACHE_TTL`: 5m/1h cache TTL outside main conversation (v2.1.242+)
- `CLAUDE_CODE_SUBPROCESS_ENV_SCRUB`: 1 strips credentials from subprocess environments; PID namespace on Linux
- `CLAUDE_CODE_SYNC_PLUGIN_INSTALL`: 1 waits for plugin install before first -p query
- `CLAUDE_CODE_SYNC_PLUGIN_INSTALL_TIMEOUT_MS`: sync plugin install timeout; no default
- `CLAUDE_CODE_SYNC_SKILLS`: 1 downloads claude.ai skills to ~/.claude/skills/synced/ (-p only)
- `CLAUDE_CODE_SYNC_SKILLS_INSTALL_TIMEOUT_MS`: mid-session skills resync timeout; default 30000
- `CLAUDE_CODE_SYNC_SKILLS_WAIT_TIMEOUT_MS`: first query wait for skill list; default 5000
- `CLAUDE_CODE_SYNTAX_HIGHLIGHT`: false disables diff syntax highlighting
- `CLAUDE_CODE_TASK_LIST_ID`: shared task list ID across sessions
- `CLAUDE_CODE_TEAM_TEARDOWN_PARK_TIMEOUT_MS`: agent team teardown wait, 1000-60000; default 10000 (v2.1.206+)
- `CLAUDE_CODE_TMPDIR`: temp directory override; ignored project/local settings
- `CLAUDE_CODE_TMUX_TRUECOLOR`: any value allows 24-bit color in tmux

- `CLAUDE_CODE_TOOL_MEMORY_CGROUP_EXCLUDE`: process kinds excluded from memory cap; none/all-new (v2.1.246+)
- `CLAUDE_CODE_TOOL_MEMORY_LIMIT`: Linux/WSL tool memory cap, e.g. 4G; 0/off (v2.1.233+)
- `CLAUDE_CODE_USER_DIALOG_TIMEOUT_MS`: remote-forwarded dialog deadline; overrides `dialogExpiry`
- `CLAUDE_CODE_USE_ANTHROPIC_AWS`: use Claude Platform on AWS
- `CLAUDE_CODE_USE_BEDROCK`: use Amazon Bedrock
- `CLAUDE_CODE_USE_FOUNDRY`: use Microsoft Foundry
- `CLAUDE_CODE_USE_MANTLE`: use Amazon Bedrock Mantle endpoint
- `CLAUDE_CODE_USE_NATIVE_FILE_SEARCH`: 1 uses Node.js APIs instead of ripgrep for discovery
- `CLAUDE_CODE_USE_POWERSHELL_TOOL`: 1/0 enables/disables PowerShell tool; needs `pwsh off-Windows`
- `CLAUDE_CODE_USE_VERTEX`: use Google Cloud's Agent Platform
- `CLAUDE_CODE_WEBFETCH_CACHE_TTL_MS`: WebFetch cache ms; default 900000, plain digits (v2.1.233+)
- `CLAUDE_CODE_WORKFLOW_PREFIX_STAGGER_MS`: workflow fan-out cache-prefix wait; default 5000 (v2.1.229+)
- `CLAUDE_CONFIG_DIR`: config directory override; default `~/.claude`; ignored project/local
- `CLAUDE_DISABLE_ADOPT`: 1 stops in-flight work when backgrounding session (v2.1.195+)
- `CLAUDE Effort`: auto-set effort level in Bash/hook subprocesses
- `CLAUDE_ENABLE_BYTE_WATCHDOG`: 1/0 force byte-level stream watchdog on/off
- `CLAUDE_ENABLE_BYTE_WATCHDOG_BEDROCK`: 1 enables byte watchdog on Bedrock event-stream
- `CLAUDE_ENABLE_STREAM_WATCHDOG`: 0/1 force event-level stream watchdog off/on
- `CLAUDE_ENV_FILE`: shell script sourced before each Bash command; hooks populate
- `CLAUDE_PID`: auto-set parent Claude Code process ID (v2.1.214+)
- `CLAUDE_REMOTE_CONTROL_SESSION_NAME_PREFIX`: Remote Control session name prefix; default hostname

- `CLAUDE_STREAM_FIRST_BYTE_TIMEOUT_MS`: first response byte deadline for streaming (v2.1.242+)
- `CLAUDE_STREAM_IDLE_TIMEOUT_MS`: stream idle watchdog timeout; min 300000
- `CLAUDE_SUBAGENT_BG_SHELL_MAX_MS`: subagent background shell lifetime; default 3600000
- `DEBUG`: 1/true/yes/on enables debug mode like `--debug`
- `DISABLE_AUTOUPDATER`: 1 disables background auto-updates; manual `claude update` works
- `DISABLE_AUTO_COMPACT`: 1 disables automatic compaction; `/compact` remains
- `DISABLE_BUG_COMMAND`: older accepted name for `DISABLE_FEEDBACK_COMMAND`
- `DISABLE_COMPACT`: 1 disables auto and manual compaction
- `DISABLE_COST_WARNINGS`: 1 disables cost warning messages
- `DISABLE_DOCTOR_COMMAND`: 1 hides `/doctor` and `/checkup` alias
- `DISABLE_ERROR_REPORTING`: any value opts out of error reporting
- `DISABLE_EXTRA_USAGE_COMMAND`: 1 hides `/usage-credits` command
- `DISABLE_FEEDBACK_COMMAND`: 1 disables `/feedback`, `/bug`, `/share`, drafted feedback
- `DISABLE_GROWTHBOOK`: 1/true disables feature-flag fetching
- `DISABLE_INSTALLATION_CHECKS`: 1 disables installation warnings
- `DISABLE_INSTALL_GITHUB_APP_COMMAND`: 1 hides `/install-github-app`
- `DISABLE_INTERLEAVED_THINKING`: 1 omits interleaved-thinking beta header
- `DISABLE_LOGIN_COMMAND`: 1 hides `/login`
- `DISABLE_LOGOUT_COMMAND`: 1 hides `/logout`
- `DISABLE_PROMPT_CACHING`: 1 disables prompt caching for all models
- `DISABLE_PROMPT_CACHING_FABLE`: 1 disables prompt caching for Fable
- `DISABLE_PROMPT_CACHING_HAIKU`: 1 disables prompt caching for Haiku
- `DISABLE_PROMPT_CACHING_OPUS`: 1 disables prompt caching for Opus
- `DISABLE_PROMPT_CACHING_SONNET`: 1 disables prompt caching for Sonnet
- `DISABLE_TELEMETRY`: any value opts out of telemetry and feature flags
- `DISABLE_UPDATES`: 1 blocks all updates including `claude update`, `claude install`
- `DISABLE_UPGRADE_COMMAND`: 1 hides `/upgrade`
- `DO_NOT_TRACK`: 1 opts out of telemetry (standard boolean)

- `ENABLE_BETA_TRACING_DETAILED`: 1 with endpoint enables detailed tracing, `claude_code.hook span [beta]`
- `ENABLE_CLAUDEAI_MCP_SERVERS`: false stops fetching claude.ai MCP servers
- `ENABLE_PROMPT_CACHING_1H`: 1 requests 1-hour prompt cache TTL
- `ENABLE_PROMPT_CACHING_1H_BEDROCK`: use `ENABLE_PROMPT_CACHING_1H` instead [deprecated]
- `ENABLE_TOOL_SEARCH`: MCP tool search: true/false/auto/auto:N
- `FALLBACK_FOR_ALL_PRIMARY_MODELS`: any value stops retrying repeated overload for all models
- `FORCE_AUTOUPDATE_PLUGINS`: 1 forces plugin auto-updates despite `DISABLE_AUTOUPDATER`
- `FORCE_HYPERLINK`: 1 enables / 0 disables OSC 8 hyperlinks
- `FORCE_PROMPT_CACHING_5M`: 1 forces 5-minute cache TTL over all
- `HTTPS_PROXY`: HTTPS proxy server
- `HTTP_PROXY`: HTTP proxy server
- `IS_DEMO`: any value hides email/org, skips onboarding
- `MAX_MCP_OUTPUT_TOKENS`: MCP response token cap; default 25000
- `MAX_STRUCTURED_OUTPUT_RETRIES`: --json-schema validation retries; default 5
- `MAX_THINKING_TOKENS`: fixed extended thinking budget; 0 disables (not Fable)
- `MCP_CLIENT_SECRET`: OAuth client secret for pre-configured MCP credentials
- `MCP_CONNECTION_NONBLOCKING`: 0 makes startup wait for MCP servers
- `MCP_CONNECT_TIMEOUT_MS`: blocking MCP startup batch wait; default 5000
- `MCP_DISCOVERY_CACHE`: 1/0 turns MCP discovery cache on/off
- `MCP_DISCOVERY_CACHE_MAX_STALE_S`: max discovery-cache age; default 14400, cap 7 days
- `MCP_DISCOVERY_CACHE_STRIKES`: failed refreshes before discarding entry; default 1 (v2.1.238+)
- `MCP_DISCOVERY_CACHE_TTL_S`: seconds before background refresh; default 900
- `MCP_OAUTH_CALLBACK_PORT`: fixed OAuth callback port, alternative to --callback-port
- `MCP_PROTOCOL_NEGOTIATION`: auto/legacy probe for MCP protocol 2026-07-28 (v2.1.221+)

- `MCP_REMOTE_SERVER_CONNECTION_BATCH_SIZE`: parallel remote MCP connects; default 20
- `MCP_SDK_GENERATION`: v1/v2 MCP client runtime (v2.1.218+)
- `MCP_SERVER_CONNECTION_BATCH_SIZE`: parallel stdio MCP connects; default 3
- `MCP_TIMEOUT`: MCP server startup timeout; default 30000
- `MCP_TOOL_TIMEOUT`: MCP tool execution timeout; default 100000000
- `NO_PROXY`: domains/IPs bypassing proxy
- `OTEL_ATTRIBUTE_VALUE_LENGTH_LIMIT`: standard OTEL attribute length limit (v2.1.214+)
- `OTEL_LOGRECORD_ATTRIBUTE_VALUE_LENGTH_LIMIT`: log-record variant read the same way
- `OTEL_LOG_ASSISTANT_RESPONSES`: 1 includes response text on assistant_response events (v2.1.193+)
- `OTEL_LOG_RAW_API_BODIES`: 1 or file:<dir> emits api_request_body/api_response_body events
- `OTEL_LOG_TOOL_CONTENT`: 1 includes tool input/output in span events
- `OTEL_LOG_TOOL_DETAILS`: 1 includes tool args, MCP names, error strings
- `OTEL_LOG_USER_PROMPTS`: 1 includes user prompt text
- `OTEL_METRICS_INCLUDE_ACCOUNT_UUID`: false excludes account UUID from metrics
- `OTEL_METRICS_INCLUDE_ENTRYPOINT`: true includes session entrypoint in metrics
- `OTEL_METRICS_INCLUDE_RESOURCE_ATTRIBUTES`: false excludes OTEL_RESOURCE_ATTRIBUTES from datapoint labels
- `OTEL_METRICS_INCLUDE_SESSION_ID`: false excludes session ID from metrics
- `OTEL_METRICS_INCLUDE_VERSION`: true includes Claude Code version in metrics
- `OTEL_SPAN_ATTRIBUTE_VALUE_LENGTH_LIMIT`: span variant read the same way
- `SLASH_COMMAND_TOOL_CHAR_BUDGET`: Skill tool metadata char budget; 1% of context, fallback 8000
- `TASK_MAX_OUTPUT_LENGTH`: subagent output chars before truncation; default 32000, max 160000
- `USE_BUILTIN_RIPGREP`: 0 uses system rg instead of bundled
- `VERTEX_REGION_CLAUDE_3_5_HAIKU`: Agent Platform region override, Claude 3.5 Haiku
- `VERTEX_REGION_CLAUDE_3_5_SONNET`: region override, Claude 3.5 Sonnet

- VERTEX_REGION_CLAUDE_3_7_SONNET: region override, Claude 3.7 Sonnet
- VERTEX_REGION_CLAUDE_4_0_OPUS: region override, Claude 4.0 Opus
- VERTEX_REGION_CLAUDE_4_0_SONNET: region override, Claude 4.0 Sonnet
- VERTEX_REGION_CLAUDE_4_1_OPUS: region override, Claude 4.1 Opus
- VERTEX_REGION_CLAUDE_4_5_OPUS: region override, Claude Opus 4.5
- VERTEX_REGION_CLAUDE_4_5_SONNET: region override, Claude Sonnet 4.5
- VERTEX_REGION_CLAUDE_4_6_OPUS: region override, Claude Opus 4.6
- VERTEX_REGION_CLAUDE_4_6_SONNET: region override, Claude Sonnet 4.6
- VERTEX_REGION_CLAUDE_4_7_OPUS: region override, Claude Opus 4.7
- VERTEX_REGION_CLAUDE_4_8_OPUS: region override, Claude Opus 4.8 (v2.1.154+)
- VERTEX_REGION_CLAUDE_5_OPUS: region override, Claude Opus 5 (v2.1.219+)
- VERTEX_REGION_CLAUDE_5_SONNET: region override, Claude Sonnet 5 (v2.1.197+)
- VERTEX_REGION_CLAUDE_FABLE_5: region override, Claude Fable 5 (v2.1.170+)
- VERTEX_REGION_CLAUDE_FABLE_5_1: region override, Claude Fable 5.1 (v2.1.255+)
- VERTEX_REGION_CLAUDE_HAIKU_4_5: region override, Claude Haiku 4.5