SECURE SFTP

PRO EDITION

Enterprise-Grade Secure File Transfer Solution

Secure   **Fast**   **Multi-Session**   **Cross-Platform**

Executive Overview
What is Secure SFTP Pro Edition?

Secure SFTP Pro Edition is a **professional-grade, Java-based SFTP desktop client** designed for enterprises that demand reliable, secure, and efficient file transfer capabilities. Built on the industry-standard SSH/SFTP protocol, it provides a polished dual-pane interface that makes transferring files between local and remote systems as simple as point-and-click — without ever sacrificing security or performance.

Whether your team manages servers, cloud infrastructure, or on-premise systems, Secure SFTP Pro Edition accelerates workflows through multi-session tabs, drag-and-drop transfers, saved connection profiles, and a fully themeable UI — all wrapped in a zero-install, cross-platform desktop application.

KEY HIGHLIGHTS			
SSH/SFTP Protocol Industry-standard encrypted transport	**Multi-Tab Sessions** Manage many servers simultaneously	**Zero-Install JVM** Runs on Windows, macOS, Linux	**Drag & Drop** Intuitive upload/download UX

Core Features
A complete toolkit for professional file management

☰	**Dual-Pane File Browser**	Side-by-side local and remote file panels provide an at-a-glance view of both filesystems. Resize panes to fit your workflow.
■	**Drag & Drop Transfer**	Move files between local and remote panes with a simple drag gesture. Supports multi-selection, directories, and even external OS file drops directly onto the remote panel for instant upload.
+	**Multi-Tab Session Management**	Open unlimited connection tabs (Ctrl+T) to manage several servers at once without opening multiple windows. Each tab maintains its own independent connection state, paths, and session data. Close any tab with the embedded × button or Ctrl+W.
■	**Recursive Directory Transfer**	Upload or download entire directory trees in a single operation. The engine automatically recurses sub-folders, preserves structure, and logs each file's progress individually.
■	**Real-Time Progress Monitoring**	A persistent progress bar displays filename, transfer speed, bytes transferred, and percentage completion for every file operation — updated every 100 ms.
■	**Timestamped Activity Log**	Every action — connections, transfers, errors, renames — is written to a live activity log with HH:MM:SS timestamps. Export or clear the log at any time.
✎	**Inline Rename (F2)**	Press F2 or use the context menu to rename any local or remote file/folder without downloading it first.
■	**New Folder Creation**	Create directories on both local and remote filesystems instantly from the toolbar or right-click context menu.

	Multi-Select Delete	Select multiple files with Shift/Ctrl-click, then delete them in a single confirmed operation on either side.
	In-Panel File Search	Press Ctrl+F to open the search bar. Results are highlighted across both local and remote panels. Navigate hits with ↑ / ↓ arrows and a result counter.

Connectivity & Security
Enterprise-grade protocol support with an emphasis on ease of use

■	**SSH / SFTP Protocol**	Transfers are encrypted end-to-end using SFTP over SSH. Powered by the battle-tested JSch library, supporting SSH-2 key exchange, AES/ChaCha20 ciphers, and HMAC integrity.
■	**Configurable Connection Parameters**	Set host, port (default 22), username, and password directly in the connection bar. Connection timeout defaults to 30 seconds and is fully configurable in code.
■	**Asynchronous Connection & Transfer**	All network operations run on background threads — the UI remains fully responsive during long uploads, downloads, and directory listings.
■	**Saved Connection Profiles**	Store host, port, and username as named profiles serialised to your home directory (.sftp_profiles.dat). Load a profile in one click. Passwords are never persisted for security. Profiles can be overwritten or deleted at any time.
■	**Symbolic Link Resolution**	The remote browser automatically resolves symlinked directories so you can navigate them transparently, with a clear visual indicator distinguishing link types.
■	**Sticky Remote Path**	The current remote path is preserved per-session-tab. Navigating up, down, or home is reflected instantly in the path field, keeping you orientated at all times.

User Interface & Accessibility
Designed for power users and casual users alike

■	**Dark / Light Theme Toggle**	Switch between a crisp light theme and a modern dark theme (Navy/Slate palette) at runtime — no restart required. All panels, tables, and log areas update instantly.
■	**File Type Icons**	Folders and files are distinguished by custom-rendered icons in the Name column, making directory structures scannable at a glance.
↔	**Alternating Row Colours**	Even/odd row shading and a blue selection highlight make it easy to track your cursor across wide file listings.
■	**Full Keyboard Navigation**	Navigate directories with Enter / Backspace, delete with Del, rename with F2, refresh with F5, search with Ctrl+F, and manage tabs with Ctrl+T / Ctrl+W.
■	**Context Menu (Right-Click)**	A rich context menu exposes Upload/Download, Delete, Rename, New Folder, Properties, and Refresh — all without leaving the keyboard or reaching for the toolbar.
■	**File Properties Dialog**	Inspect name, type, size, modification date, full path, and read/write permissions for any selected file via the Properties menu item.

■	**Browse Local Folder Dialog**	A standard OS folder-picker lets you jump to any local directory without manually typing a path.
↑	**Parent Directory Navigation**	Dedicated Up Arrow button and Backspace key shortcut navigate to the parent directory on both local and remote panels.

Technical Specifications
Built on proven, open-standard technologies

Component	Technology / Detail
Programming Language	Java (JDK 11+)
UI Framework	Java Swing with custom renderers
SFTP / SSH Library	JSch (Java Secure Channel)
Supported Protocol	SFTP over SSH-2
Default Port	22 (fully configurable)
Authentication	Password (SSH key support via JSch)
Connection Timeout	30 000 ms (30 seconds)
File Transfer Mode	OVERWRITE (configurable to RESUME/APPEND)
Progress Update Rate	Every 100 ms during transfer
Profile Storage	Java Object Serialisation (~/.sftp_profiles.dat)
Threading Model	Swing EDT + dedicated background threads
Drag & Drop API	java.awt.dnd — internal & external flavours
Platform Support	Windows · macOS · Linux (any JVM 11+)
Build Tool	Apache Maven
Log Format	Timestamped text, scrollable, clearable

Keyboard Shortcut Reference
Accelerate your workflow with built-in shortcuts

Shortcut	Action
F5	Refresh both local and remote panels
Ctrl + F	Focus the search bar and select all text
Ctrl + T	Open a new connection tab
Ctrl + W	Close the current connection tab
F2	Rename the selected file or folder

Delete	Delete selected file(s) (with confirmation)
Backspace	Navigate to parent directory
Enter	Open / navigate into selected directory
Double-Click	Open / navigate into selected directory

Use Cases
Who benefits from Secure SFTP Pro Edition?

■	**DevOps & System Administrators**	Deploy application builds, configuration files, and scripts to remote servers in seconds. Multi-tab sessions allow engineers to maintain live connections to staging, production, and DR environments simultaneously.
■	**Data Analysts & Scientists**	Transfer large datasets and model artefacts to and from HPC clusters or cloud storage nodes. Recursive folder transfers preserve project directory structures perfectly.
■	**IT Support & Managed Services**	Access client servers quickly using saved profiles. The activity log provides a full audit trail of every file touched during a support session.
■	**Web Developers**	Push code updates, media assets, and static content directly to web server home directories without a command-line SSH session.
■	**Enterprise File Exchange**	Provide a standardised, auditable tool for inter-department file transfers to regulated file servers — replacing ad-hoc FTP clients or insecure email attachments.
■	**Software Release Management**	Upload build artefacts to distribution servers, download release packages for QA sign-off, and organise directories — all from a single interface.

Deployment Guide
Up and running in minutes

Step	Action	Details
1	Prerequisites	Install JDK 11 or higher (OpenJDK or Oracle JDK)
2	Add Dependency	Include JSch JAR via Maven: com.jcraft:jsch:0.1.55
3	Compile	Run: mvn clean package (or javac in src/main/java)
4	Launch	Run: java -jar secure-sftp-pro.jar
5	First Connection	Enter host, port, user, password — click Connect
6	Save Profile	Click Save, name your profile for future one-click access
7	Transfer Files	Select files, click Upload / Download or drag & drop

Competitive Comparison
How Secure SFTP Pro Edition stacks up

Feature	Secure SFTP Pro	Generic FTP Client	CLI sftp
Encrypted Transfer (SFTP)	Yes	Sometimes	Yes
Dual-Pane Browser	Yes	Yes	No
Multi-Tab Sessions	Yes	Rarely	No
Drag & Drop (Internal+Ext)	Yes	Limited	No
Saved Connection Profiles	Yes	Yes	No
Dark / Light Theme	Yes	Rarely	No
Recursive Dir Transfer	Yes	Sometimes	Yes
Real-Time Progress Bar	Yes	Yes	No
File Search (Ctrl+F)	Yes	Rarely	No
Symlink Navigation	Yes	Sometimes	Yes
In-App Properties Dialog	Yes	Sometimes	No
Full Keyboard Shortcuts	Yes	Partial	Partial
Zero External Dependencies	Yes (JVM only)	No	Yes

Product Roadmap
Upcoming features planned for future releases

Release	Feature	Status
v1.1	SSH Public-Key Authentication	In Development
v1.1	SFTP Server Fingerprint Validation	In Development
v1.2	Bookmark / Favourite Paths	Planned
v1.2	File Integrity Checksum (SHA-256)	Planned
v1.3	Scheduled / Automated Transfers	Planned
v1.3	Transfer Queue with Retry Logic	Planned
v2.0	SCP & FTPS Protocol Support	Researching

v2.0	Plugin API for Custom Extensions	Researching

Support & Licensing
We're here to help your team succeed

■	**Technical Support**	Priority email support for all licensed customers. Typical response time under 4 business hours. Includes remote desktop assistance for deployment issues.
■	**Documentation Portal**	Comprehensive online documentation covering installation, configuration, API reference, and troubleshooting guides — updated with every release.
■	**Free Updates**	All v1.x minor and patch releases are included with your license at no additional cost. Major version upgrades are available at a discounted upgrade price.
■	**License Types**	Available as a Single-User, Team (up to 25 seats), and Enterprise (unlimited seats) license. Volume discounts available for orders of 10+ seats.
■	**Training & Onboarding**	Optional half-day remote training sessions for teams. Covers all features, best practices, and integration with existing CI/CD pipelines.

Ready to Get Started?

Contact our sales team for a free 30-day trial license, pricing quote, or live product demonstration tailored to your infrastructure.

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