


Tramp - Emacs Remote File Editing

Operation	Keystroke	Function	Note
Tramp <ul style="list-style-type: none">Tramp @ wikiEmacstramp-mode @ Emacs WikiTramp FAQ	Emacs can open file located on a remote computer. Use a command to visit (open) a file and provide a file name that uses the Tramp-specific format (explained below) to identify the network protocol, user name, hostname and the file name of the remote computer.		
	 Tramp relies on a ssh connection and attempts to locate the end of the shell prompt of the remote shell. See ℥ Grep for searching in remote system with Tramp.		
Troubleshooting Tramp See also: <ul style="list-style-type: none">Remote shell setup hints	<ul style="list-style-type: none">If the shell prompt of the remote shell is complex, Tramp might not be able to connect and will timeout.There are 2 potential solutions to this problem:<ul style="list-style-type: none">Update the regular expression specified by the tramp-shell-prompt-pattern user-option.Configure the shell to use a simple prompt that has no escape sequence. The simpler the better.<ul style="list-style-type: none">Tramp set the TERM environment variable to "dumb", therefore you can modify your shell configuration code (in ~/.bashrc, ~/.zshrc or whatever your shell uses) to select a simple prompt when TERM is dumb as in the following (written in POSIX compliant):<pre>if ["\$TERM" = "dumb"]; then PS1='# ' else # your normal prompt setting logic goes here fi</pre>On zshrc you may want to use the following line at the top of your script instead:<pre>[["\$TERM" == "dumb"]] && unsetopt zle && PS1='\$ ' && return</pre>		
<ul style="list-style-type: none">Activate Tramp Trace buffer	If the above fails, you will need to debug Tramp and look into the Tramp tracing: <ul style="list-style-type: none">Set tramp-verbose user option to 10 to activate the tramp debug buffer.<ul style="list-style-type: none">See ELisp evaluation in ℥℥ - Emacs Lisp for various ways of setting Emacs Lisp variables.Look at the Tramp debug trace to identify the problem.<ul style="list-style-type: none">Locate the ssh command issued by Tramp and try it manually to see what it does.If that fails, try the above with. a clean Emacs started with emacs -Q		
<ul style="list-style-type: none">Remote File format<ul style="list-style-type: none">Quoted file names	<code>/method:host:filename</code> <code>/method:user@host:filename</code> <code>/method:user@host#port:filename</code>	method is: ftp, scp, ssh or - . If it is -, the tramp selects the method as follows: <ul style="list-style-type: none">If the host name starts with 'ftp.' (with dot), Emacs uses FTP.If the user name is 'ftp' or 'anonymous', Emacs uses FTP.If the variable tramp-default-method is set to 'ftp', Emacs uses FTP.If ssh-agent is running, Emacs uses scp.Otherwise, Emacs uses ssh. If you want to access a <i>local</i> file that has the syntax corresponding to the remote file name syntax, then you need to <u>quote the file name</u> by adding / : at the beginning of the file name.	
Open local files/dir as sudo or su	Tramp provides a syntax to open local files or directories as sudo or su		
<ul style="list-style-type: none">Open local file as sudo or su (see ℥ File-mngt)	<ul style="list-style-type: none">To open local file as sudo: C-x C-f /sudo::/path/to/fileTo open local file as su: C-x C-f /su::/path/to/file		
<ul style="list-style-type: none">Open local directory as sudo or su (see ℥ Dired)	<ul style="list-style-type: none">To open local directory as sudo: C-x d /sudo::/path/to/directoryTo open local directory as su: C-x d /su::/path/to/directory		
Open remote files/dir as sudo or su			
<ul style="list-style-type: none">Open remote file as sudo or su (see ℥ File-mngt)	<ul style="list-style-type: none">To open local file as sudo: C-x C-f /ssh:you@remotehost sudo:remotehost:/path/to/fileTo open local file as su: C-x C-f /ssh:you@remotehost su:remotehost:/path/to/fileWith Emacs >= 27.1:<ul style="list-style-type: none">To open local file as sudo: C-x C-f /ssh:you@remotehost sudo::/path/to/fileTo open local file as su: C-x C-f /ssh:you@remotehost su::/path/to/file		
<ul style="list-style-type: none">Open remote directory as sudo or su (see ℥ Dired)	<ul style="list-style-type: none">To open local directory as sudo: C-x d /ssh:you@remotehost sudo:remotehost:/path/to/directoryTo open local directory as su: C-x d /ssh:you@remotehost su:remotehost:/path/to/fileWith Emacs >= 27.1:<ul style="list-style-type: none">To open local directory as sudo: C-x d /ssh:you@remotehost sudo::/path/to/directoryTo open local directoryas su: C-x d /ssh:you@remotehost su::/path/to/directory		
Multi-hop open	For more information on multi-hop with. Tramp: C-h i g (tramp)Ad-hoc multi-tops		
Open a file via multi-hops	<ul style="list-style-type: none">C-x C-f /ssh:hop1user@hop1host ssh:you@remotehost:/path/to/file		
Open this PDF file. See also: ℥ Help/Info	<f11> p tramp	(pel-help-pdf-select &optional OPEN-GITHUB-PAGE-P)	Open the ℥ Tramp local PDF. If the prefix argument (like C-u or M--) is used, then open remote GitHub hosted raw PDF instead. If pel-flip-help-pdf-arg user-option is set it's the other way around.
℥ Customize Tramp	<f11> <f2> g	(customize-group &optional GROUP OTHER-WINDOW)	Open the tramp customization group.
Open a file on remote computer See: ℥ File-mngt	<ul style="list-style-type: none"><f11> f fM-<f11> M-fM-fC-x C-f	(find-file FILENAME &optional WILDCARDS) (ido-find-file)	Prompt for the file name. <ul style="list-style-type: none">Enter a file name that corresponds to the remote file name syntax, as described above. Completion is available, as usual.<ul style="list-style-type: none">Type / first and then the <i>method</i> followed by :

Tramp— References

Topic & Link	Notes
Tramp Quick Start Guide	Short Introduction how to use TRAMP from the Emacs User Manual
Tramp User Manual	Tramp User Manual.
Tramp Mode @ Emacs Wiki	
Tramp @ Stack Overflow	There's several Q&A about tramp.
Tramp @ Emacs StackExchange	And on Emacs Stack Exchange too.
Reddit Emacs has some discussion on Tramp	<ul style="list-style-type: none"> Has TRAMP ever work for you flawlessly? Tramp another "waiting for prompts from remote shell...failed"
Related other info	<ul style="list-style-type: none"> About ssh ControlMaster option: used when remote host does not support key-based authentication.