## The Is -I command output format, filesystem and SELinux security context

b Block special file.	jdoe	staff	5111	9 Jun 14:30	readme.rst.txt					
b Block special file.   c Character special file.   c Character special file.   c Character special file.   c Character special file.   d Directory.   d Door (Solaris).   d Iffer 1) Symbolic link.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted its controlled by the directory attribute.   a directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow its directory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow writing to file.   Allow at allow at electory to be created, renamed, deleted if the 'x' attribute is also set.   write: Allow at allows at allow at the interior of deleted in the attribute.   write: Allow at the interior of deleted in the attribute is also set.   write: Allow at allows at the interior of deleted in the attribute is also set.   write: Allow at allows at the interior of deleted in the attribute.   write: Allow at the interior of deleted in the attribute is also set.   write: Allow attribute.   write: Allow attribute.   w	owne	ership								
* SELinux: With -Z option:  **References: **SELinux notebook (the authors) in Table of Contents  **SELinux notebook (the authors) in Place of Linux security context in the following fields (as of the security context) in Place of Linux notebook (the authors) in Table of Contents  **SELinux Notebook (the authors) in Table of Contents  **Red Hat SELinux notebook (the authors) in Table of Contents  **Red Hat SELinux notebook (the authors) in Table of Contents  **SELinux notebook (the authors) in Place of Linux notebook (the authors) in Table of Contents  **SELinux notebook (the authors) in Place of Linux notebook (the authors) in Table of Contents  **SELinux notebook (the authors) in Place of Linux		Group ownership	Size in bytes.  With 1s -1h, size format is human readable with units:  k: kilo  M: mega  G: giga	Date of last modification.  Date format might be affected by the LANG environment variable.  On Linux, you can change the date format with the —time-style option.  For example: ls -ltime-style="long-iso"	Name of the file, or the symlink.					
**Shown with the -Z option between ownership & size for the Is -I output: in place of above.  **SELinux intro @ Gentoo wiki  **SELinux @ Fedora wiki  **SELinux & Fedora	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -									
between ownership & size for the Is -I output: in place of above.  SELinux Notebook (the authors)  Table of Contents  Bed Hat SELinux  SELinux @ Gentoo wiki  SELinux @ Gentoo wiki  SELinux @ Gentoo wiki  SELinux @ Fedora wiki  SELinux @ Fedora wiki  SELinux @ ArchLinux wiki  Rocky Linux 8 @ server-world  SELinux security context : as string of user:role:type:level syntax with the following fields (as do user:role:type:level field (user:level) (as do user:role:type:level syntax with the following fields (as do user:role:type:level) (as do user:role:type:level syntax with the following fields (as do user:level) (as do user:level) (as	? is displayed when the file has no associated <u>SELinux security context</u> (see also this and this) which implements a <u>Mandatory Access Control</u> for Linux. Otherwise it shows:									
	<ul> <li>role (r) The <u>SELinux role</u>. This can be associated to one or more types the SELinux user is allowed to access.</li> <li>type (t) The <u>SELinux type</u> of the file (the <u>SELinux object</u>). It defines what access permissions the SELinux user has to that object.</li> </ul>									
on SELinux: The -Z switch is available on several utilities to show or manage SELinux security contexts information. For example:  For files: Is -IZ  For users: id -Z										

ignition by Use the selinux-policy external package to edit SELinux policy files. Under PEL, ignition set pel-use-selinux-policy user-option to to get PEL to install and use it for the .te, .if, .fc and .spt files.

Filesystem	To list all filesystems used:	On <b>1</b> : <b>df</b> - <b>hT</b> On <b>6</b> : <b>df</b> - <b>hY</b>	In both cases, the -h option provides simpler, human readable, size values.	<ul> <li>Some file systems used in Linux:</li> <li>xfs</li> </ul>	<ul> <li>Some file systems on macOS:</li> <li>apfs</li> <li>hfs+</li> <li>devs</li> <li>autofs</li> <li>nulls</li> <li>smbfs</li> </ul>
	On	On 🐠: lsblk -f	This shows the block device tree and their file systems; their type, label, UUID and mount point.	<ul> <li>tmpfs, temporary file system</li> <li>devtmpfs, temp fs for dynamically created devices</li> <li>Ext4, a journaling file system</li> <li>prl_fs: Parallels Desktop VM file system</li> </ul>	
	On . to list the file system of a directory or file:	On 🐠: stat -f -	c %T /path/to-dir/or-file	• fuse.sshfs	
Manipulating files extended attributes				attr     getfattr     setfattr	
HowTo See: Is man pages	List attribute of a directory DIR (not the files it holds)	• 1s -ld DIR	List attributes of a	directory (not its content)	
		• 1s -lda DIR	List attributes of a	nidden directory (not its content)	
		• 1s -ldaZ DII	List all attributes of	a hidden directory (not its content)	