

Find log4j files with Docusnap 11

Analyze Windows and Linux systems



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1. Introduction

The German Federal Office for Information Security (BSI) has declared the highest warning level Red (IT threat level 4) for the vulnerability known as "log4shell" or also "log4j" (National Vulnerability Database -NVD- CVE- 2021-44228). This means that the IT threat level is classified as extremely critical. As a result, both the failure of many services and regular operations are not possible.

The Java log4j libraries from version 2.0.1 to 2.14.x are affected. Version 2.15.0 is already fixed but contains further security vulnerabilities. For this reason, an update to version 2.16.0 is urgently recommended at the current time, December 2021. In general, however, the recommendation always applies to install the latest update as soon as possible.

Older versions <= 1.x are not affected by the log4shell vulnerability. However, since these versions have long since reached end-of-life status, an update to the latest version is also strongly recommended here wherever possible.

The vulnerability allows attackers to execute their own program code on the target system and thus compromise the server. In addition, it can also be used to disclose sensitive data, such as API keys.

Below you will learn how Docusnap can help you find log4j files on Windows and Linux systems.

Docusnap itself is not affected by this vulnerability. This technology is not used for the product.



2. Find log4j files with Docusnap

Docusnap can search the file system of Windows and Linux systems for log4j files.

The December 2021 Docusnap patch (11.0.1928.21348) is limited to required Linux inventory enhancements. No update to Docusnap 11 is required for the Windows software search suggested below.

2.1 Windows Systems

Software search allows to search the file system from all Windows systems in an organization for files with a specific naming.

Checking the file system extends the scan times and may cause additional load on the involved systems during execution. The CPU of the Docusnap server is heavily utilized when the software search is executed with more than one search term. With the first hit, Docusnap ends the search and adds a corresponding entry in the system's software list. Thus, a first statement is available on which systems versions of this framework are available.

We therefore recommend performing the Windows inventory with software search using the DocusnapScript method described in this HowTo as far as possible.

Depending on the selected search criterion, all systems with log4j or a subset (e.g. only files with a version 2.x in the name) are then listed.

2.2 Linux systems

The Linux scan has been extended to help with this problem. The complete file system is scanned and all hits are documented with version and directory path.

An increased scan time and additional load on the target systems must also be calculated here.



3. Requirements

The scan must be performed with the required rights to the file system. The scan user must have at least read access to the file system.

4. Log4j search on Windows systems

4.1 Enable Software Search

In Docusnap Management - Options - Inventory, check the box for the Software Search. Now this is enabled for both the Windows IP scan and the Windows AD scan and can be found in the respective inventory wizards.

Options					—		×
G eneral	General Inventory						
Inventory	Multi-processing Timeout in Seconds	180-					
Documentation	Ping Timeout in Seconds: Set Scan Mode:						
E IT Security	Show Features in Wizard						
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	Wizards ☑ Save Settings in the Wizards						
				<u>O</u> K	Ca	ancel	

Figure 1 - Enable Software Search



4.2 Set up Software Search

Then switch to the **Inventory** section in the Management and there to the **Software Search** tab to create a new Software Search. For detailed information on the Software Search function, please refer to the Docusnap 11 manual.

Use the New button to set up a new Software Search.

The Name will be displayed later in the software list and should therefore be chosen in a meaningful and understandable way.

The search term is entered in the File Name field. Wildcards can be set with *.

The fields Publisher, Version, File Size and Date Modified are irrelevant in this case and can be left empty.

The Search Path field, on the other hand, must be empty so that Docusnap searches the entire file system.

Docusna	ip 11 - Managei	ment (Configu	iring, Customiz	zing and Extendi	ng of Docus	snap)				
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General	👤 SNMP 🔹 🚳 S	oftware Search	Server Roles	🖶 Additional Tool	s 🗇 Active [Directory 🔤	Assignment Criteria	≝AWS Regions		
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ै ं Options										

Figure 2 - Set up Software Search



4.2.1 Suggestion Search Term *log4j*.jar

Our recommendation is to use the search term ***log4j*.jar**. With this search term **all systems** are listed on which log4j files are found. This also includes 1.x versions. These are now obsolete and should be updated as far as possible according to the BSI recommendation. This search term provides a complete overview.

However, it is not possible to distinguish between 1.x and 2.x in this way. For this, the file system of the identified systems must still be examined in detail.

4.2.2 Suggestion search term *log4j*-2*.jar

Alternatively, you can also use the search term *log4j*-2*.jar. This will then only find log4j files with version 2.x. Not affected 1.x versions will not be displayed.

With the reduction to files with 2.x versions the number of systems to be analyzed is reduced. However, completeness cannot be achieved this way.



4.3 Execute Software Search

If the software search was enabled in the options, it can be found in the Windows IP scan and Windows AD scan inventory wizards. In step 4 of the respective wizard you can select the previously created search.

	у					
		3	4	5		6
Apply	Steps 1-2 v Software Search	Windows Systems	(AD) Software Search	Summary	Sc	heduling
	Name	Publisher	File Name	Search Path	Version	
6	Putty.exe	Simon Tatham	putty.exe	C:\Putty		
⊿ 😼	log4j version neutral		*log4j*.jar			
. 🧔	log4j v2 positives		*log4j*-2*.jar			
Row Co	ount: 0 of 0					

Figure 3 - Execute Software Search



4.4 Display search result

The result of the software search can be found in the Data Explorer in the respective **Domain - Infrastructure** - **Summary - Software**. If you filter here according to the **Name** you assigned to the search, you will see on how many systems the search term was found. By double-clicking, you can display a list of these systems. This list can also be exported, for example in Excel format.

🔂 Docusn	ap 11										오 🖯 🕸 🔀 - 1	$? \cdot = t$
(S) Discovery	Inventory											
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Inventory	> Overview	▲ + New :	- Data (285) Additio	onal Information								
	b Docusnap GmbH											
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_	V U docusnapsports.com	🚺 👩 log4j v	versionsneutral							1 Windows		
Ð	> 🔐 Reports											
IT Security	Workstations Servers											
5	> 🔄 Servers > 🔼 Linux											
ନ୍ମ License	> 🛃 Linux > 🖵 Mac											
Management	> 🖵 Mac > 🖵 SNMP Systems											
	> I Thin Clients											
Ŀ	> @ HP-UX											
All Jobs	> U CIFS											
	> I Virtualization											
6 ⁰	> 👤 IP Systems											
Connect	> Active Directory											
-	> 🖳 Network Services											
8	> 🔤 Application Servers											
Physical Infrastructure	> 🖯 Database Server											
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°0	> 🔥 Azure											
Management	> # Amazon Web Services											
	> 😋 Microsoft 365											
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Figure 4 - Search result - number of systems found

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agement > 6 logd-pip2-15.0-sources, 2.15.0 Col > 6 logd-pipzerver-2.15.0.piradoc, 2.15.0 Systal > 6 logd-pipzerver-2.15.0.piradoc, 2.15.0 Systal > 6 logd-picre-2.15.0.piradoc, 2.15.0 Systal > 6 logd-	
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 [6] log4j-bottreams-2.15.0-sources, 2.15.0 [6] log4j-je-2.15.0, 2.15.0 [6] log4j-je-2.15.0, 2.15.0 [6] log4j-je-2.15.0, 2.15.0 [6] log4j-je-2.15.0, 2.15.0 [6] log4j-jebc-dbcp2-2.15.0, 2.15.0 [6] log4j-jebc-dbcp2-2.15.0, javadoc, 2.15.0 	
 > [6] log4j+jc-2.15.02.15.0 > [6] log4j+jc-2.15.0-javradoc. 2.15.0 > [6] log4j+jc-2.15.0-javradoc. 2.15.0 > [6] log4j+jc-dbc-2.15.0.2.15.0 > [6] log4j+jc-dbc-2.15.0.2.15.0 	
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Figure 5 Search result - found systems



4.5 Alternative DocusnapScript

In addition to the Software Search using the Inventory Wizard, this can also be performed using the DocusnapScript. For detailed information about the DocusnapScript, please refer to the HowTo Docusnap Script for Windows.

The software name in the wizard and the software name in the XML search file should not differ. This way, with the same notation, all found systems will be listed together in the software list, regardless of the inventory technology used.

4.5.1 Extension software search per parameter

According to the above search terms *log4j*.jar and *log4j*-2*.jar, the XML search files would look like the following:

Search term *log4j*-2*:

```
<SoftwareItem>
<SoftwareName>log4j v2 positives</SoftwareName>
<SoftwarePublisher /> <!-- optional-->
<SoftwareVersion /> <!-- optional-->
<FileName>*log4j*-2*.jar</FileName>
<SearchPath /> <!-- global-->
<FileSize /> <!-- optional byte-->
<ModifyDate /> <!-- optional-->
</SoftwareItem>
```

Search term *log4j*:

```
<SoftwareItem>

<SoftwareName>log4j version neutral</SoftwareName>

<SoftwarePublisher /> <!-- optional-->

<SoftwareVersion /> <!-- optional-->

<FileName>*log4j*.jar</FileName>

<SearchPath /> <!-- global-->

<FileSize /> <!-- optional byte-->

<ModifyDate /> <!-- optional-->

</SoftwareItem>
```

DocusnapScript execution - example:

DocusnapScript.exe -0 C:\Temp -S C:\Temp\DocusnapScript\log4jv2positives.xml

Explanation of parameters:

- -O (output path for scan result).
- -S (Path for the XML file with the Software Search definition)
- -H (Call DocusnapScript help function if needed)



5. Log4j search on Linux systems

Software search on Linux systems is not available until the December 2021 patch of Docusnap 11 (11.0.1928.21348). The procedure is identical to that for Windows systems, described in 4. Log4j search on Windows systems.

Please note: DocusnapScript for Linux has not yet been extended and therefore does not currently provide this information.

Unlike the search on Windows systems, you get more information on Linux systems. The search does not stop after the first hit on a system, but **displays all files found on a system** that contain the search term. In addition, the **version** is displayed for each file.

<i>v</i>	Inventory								
Discovery	🚦 Windows (AD) 🔸 🖳	SNMP 🔶	Active Directory *	🚇 VMware 🛛 🛨	🔺 Azure Service 🕇	0 Office 365 🛛 🛨	🕼 System Groups 📩	··· All Wizards	
Inventory	~ 島 LINUX	▲ + New	- Data (12765) Add	litional Information					
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	> 🖬 Reports		ame	♥ Version	Publisher	Cour	et OS	Software GUID	
umentation	 V linux.local V Reports 	8	*log4j*						
Ð	> 🖾 Workstations	lo lo	g4j-1.2-1.2.17	1.2.17			1 Linux		
Security	> Servers	lo lo	g4j-1.2-api-2.15.0	2.15.0			1 Linux		
	> 🔥 Linux	lo lo	g4j-1.2-api-2.15.0-javadoc	2.15.0			1 Linux		
C	> 🖵 Mac	🚺 🚺 log	g4j-1.2-api-2.15.0-sources	2.15.0			1 Linux		
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anagement	> D Thin Clients M HP-UX	💿 lo	g4j-api-2.15.0-javadoc	2.15.0			1 Linux		
Ŀ	> III CIFS	🙆 lo	g4j-api-2.15.0-sources	2.15.0			1 Linux		
All Jobs	> III Virtualization	💿 lo	g4j-appserver-2.15.0	2.15.0			1 Linux		
~	> 👱 IP Systems	🚺 🚺 Io	q4j-appserver-2.15.0-javadoc	2,15.0			1 Linux		
\$ ⁰	> 🔄 Active Directory		q4j-appserver-2.15.0-sources	2.15.0			1 Linux		
Connect	> 🙎 Network Services		o4i-cassandra-2.15.0	2.15.0			1 Linux		
8	 Application Servers Database Server 		q4j-cassandra-2.15.0-javadoc	2.15.0			1 Linux		
Physical	 Database server Storage 		q4j-cassandra-2.15.0-sources	2.15.0			1 Linux		
rastructure	> Azure		q4j-core-2.15.0	2.15.0			1 Linux		
° _O	> 🐸 Amazon Web Services			2.15.0			1 Linux		
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	Software		g4j-core-2.15.0-tests	2.15.0			1 Linux		
	Hotrixes Service Packs		g4j-couchdb-2.15.0	2.15.0			1 Linux		
	> Operating Systems		g4j-couchdb-2.15.0-javadoc	2.15.0			1 Linux		
	> 🗢 Networks		g4j-couchdb-2.15.0-sources	2.15.0			1 Linux		
	Stopped Services	🚺 🚺	g4j-docker-2.15.0-javadoc	2.15.0			1 Linux		
	> 🏙 Offline Systems > 品 Topology	🗔 lo	g4j-docker-2.15.0-sources	2.15.0			1 Linux		

Figure 6 - Software Search on Linux systems incl. version number



In addition, when searching on Linux systems, the path of the found files is also output, which significantly simplifies further processing.

\odot	Inventory							
Discovery	🚦 Windows (AD) 📩 🖵 SNMP		★ Active Directory ★	💷 VMware 🔸	🔺 Azure Service 📩 🕕 Office 365 📩	(E) System Groups t	··· All Wizards	
Inventory	> o log4j-cassandra-2.15.0-so	N	ew : - Data (1517)					
-	> 👩 log4j-core-2.15.0, , 2.15.0	N	ew : • Data (1517)					
	> log4j-core-2.15.0-javadoc		Name	∀ Version	Path		Publisher	Installation Date
umentation	> log4j-core-2.15.0-sources	Y	*log4j*					
_	 log4j-core-2.15.0-tests, , 2 log4j-couchdb-2.15.0, , 2. 	٥	log4j		/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j.jar		
5	> log4j-couchdb-2.15.0, ; 2.	6	log4j-1.2-api-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-1.2-api-2.15.0.jar		
Security	> log4j-couchdb-2.15.0-sou	6	log4j-1.2-api-2.15.0-javadoc	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-1.2-api-2.15.0-javadoc.jar		
6	> olog4j-docker-2.15.0-javad	6	log4j-1.2-api-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-1.2-api-2.15.0-sources.jar		
License	> olog4j-docker-2.15.0-sourc	6	log4j-api-2.15.0	2,15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
anagement	> 👩 log4j-flume-ng-2.15.0, , 2.	6	log4j-api-2.15.0-javadoc	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
(L)	 log4j-flume-ng-2.15.0-jav. log4j-flume-ng-2.15.0-sou 	6	log4j-api-2.15.0-sources	2,15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
All Jobs	> log4j-indite-rig-2.15.0-sot	6	log4j-appserver-2.15.0	2,15,0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
	> oglj-iostreams-2.15.0-jav	6	log4j-appserver-2.15.0-javadoc	2,15,0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
a ^o	V Solog4j-iostreams-2.15.0-so	6	log4j-appserver-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
Connect	~ 🖪 DSLX20	6	log4j-appserver-2.15.0-sources	2.15.0				
A	> 🆧 Connections				/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
Physical	✓ □ 14.12.2021 14:54:27 > □ Reports	6	log4j-cassandra-2.15.0-javadoc	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
frastructure	> \Lambda General	6	log4j-cassandra-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
°a	Softwara	٥	log4j-core-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/			
~☆ anagement	> Vetwork	1.0	log4j-core-2.15.0-javadoc	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-core-2.15.0-javadoc.jar		
anagement	> OPartitions	٥	log4j-core-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-core-2.15.0-sources.jar		
	> 🖟 Hardware	٥	log4j-core-2.15.0-tests	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-core-2.15.0-tests.jar		
	> 员 Local Printers > 愛 Network Printers	٥	log4j-couchdb-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-couchdb-2.15.0.jar		
	> © Printer Ports	6	log4j-couchdb-2.15.0-javadoc	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-couchdb-2.15.0-javadoc.jar		
	> © Daemons	٥	log4j-couchdb-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-couchdb-2.15.0-sources.jar		
	> 🛞 Network Services	٥	log4j-docker-2.15.0-javadoc	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/	log4j-docker-2.15.0-javadoc.jar		
	> & Local Users	a	lock dealers 2.45.0 second	2.15.0	And the second of the family local of the local	le di de due 2450 environite		

Figure 7 - Software Search on Linux systems incl. file path

For the analysis of the Linux software these new reports were developed. The Excel variant allows easy further processing.

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iscovery	📢 Windows (AD) 📩 🖳 SNMP	📩 📄 Active Directory 📩	🗐 VMware 🔺 🔺 A	zure Service	🛨 🔘 Office 365 🛛 📩	🕞 System Groups 📩	··· All Wizards		
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	> 🗁 Dell EMC Isilon		Scan Date 14.12.2021 17:35:53						<u> </u>
Jobs									
	Operating System		Software log4j-1.2	Version	Path /usr/share/java/log4j-1.2.jar				
6 ⁰	Software Cumulated		log4j-1.2.17		/usr/share/maven-repo/log4j/log4j/1.2.17/log	4j-12.17,jar			
nnect	Software Detailed		log4j-1.2.x		/usr/share/maven-repo/log4j/log4j/l2x/log4j	- 12.xjar			
	Software Linux		log4j-1.2-1.2.17 log4j-over-slf4j		/usr/share/java/log4j-1.2-1.2.17.jar /usr/share/java/log4j-over-slf4j.jar				
A	Software Linux log4j		log4j-over-sit4j-1.7.25		/usr/share/maven-repo/org/slf4j/log4j-over-sl	114/17.25/10.04i-over-stf4i-1.7.25.jar			
nysical	Software Linux log4j - Excel		log4j-over-slf4j-1.7.25	1.7.25	/usr/share/java/log4j-over-slf4j-1.7.25.jar				
structure	Software Linux log4) - Excel		log4j-over-slf4j-debian		/usr/share/maven-repo/org/slf4j/log4j-over-sl	lf4j/debian/log4j-over-slf4j-debian.jar			
			System: DSLX20 - Linux						
°o	Software Windows		· · · · · · · · · · · · · · · · · · ·						
agement	Software Windows System		Scan Date 14.12.2021 17:36:32						
	Windows Hotfixes		Software	Version	Path				
	Windows Hotfixes System		log4j log4j-1.2-api-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j- /root/apache-tomcat-9.0.56/lib/apache-log4j-				
	Windows License Key		log4j-1.2-api-2.15.0 log4j-1.2-api-2.15.0-javadoc		/root/apache-tomcat-90.56/lib/apache-log4j- /root/apache-tomcat-90.56/lib/apache-log4j-				
	Windows Software Search		log4j-1.2-api-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-	2.15.0-bin/log4j-1.2-api-2.15.0-sourcesjar			
	> D Infrastructure HW		log4j-api-2.15.0		/root/apache-tomcat-9.0.56/lib/apache-log4j-				
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	> 🗁 Microsoft Exchange Online		logijappserver-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-	2.15.0-bin/log4j-appserver-2.15.0.jar			
	> D Microsoft Office 365		log4j-appserver-2.15.0-javadoc		/root/apache-tomcat-9.056/lib/apache-log4j-				
	> 🗁 Microsoft Azure		log4j-appserver-2.15.0-sources log4j-cassandra-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j- /root/apache-tomcat-9.0.56/lib/apache-log4j-				
	> 🗁 Microsoft Exchange		log4j-cassandra-2.15D log4j-cassandra-2.15D-javadoc		/root/apache-tomcat-90.56/lib/apache-log4j- /root/apache-tomcat-90.56/lib/apache-log4j-				
	> P Microsoft SOI		log4j-cassandra-2.150-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-	2.15.0-bin/log4j-cassandra-2.15.0-sourcesjar			
	> D Network Services DFS		log4j-core-2.15.0		/root/apache-tomcat-9.0.56/lib/apache-log4j-				
	 D Network Services DFS D Security Windows 		log4j-core-2.15.0-javadoc log4j-core-2.15.0-sources		/root/apache-tomcat-9.0.56/lib/apache-log4j- /root/apache-tomcat-9.0.56/lib/apache-log4j-				
	 > Security Windows > > Virtualization Hyper-V 		log4j-core-2.15.0-tests		/root/apache-tomcat-90.56/lib/apache-log4j-				
			log4j-couchdb-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-	2.15.0-bin/log4j- couchdb-2.15.0.jar			
	> 🖟 Workstations		log4j-couchdb-2.15.0-javadoc log4j-couchdb-2.15.0-sources	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j- /root/apache-tomcat-9.0.56/lib/apache-log4j-	2.15.0-bin/log4j-couchdb-2.15.0-javadoc.jar			
	> Servers		rogej-couchdb-2.15.0-sources	2,15,0	/root/apache-comcat-S0.56/lib/apache-log4j-	2.15.0-bity/logig-coucridb-2.15.0-sourcesjar			

Figure 8 - Report Linux



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	v V docusnapsports.com							
5	Reports							
ecurity	> 🗁 Docusnap		Domain	System Name DSLX20	Scan Date 14.12.2021 17:36:32	Software	Version	Path /root/apache-tomcat-90.56/lib/apache-loo4i-2.15.0-bin/too4i.jar
~	> D AD DS Infrastructure		do cus napsports.com do cus napsports.com	DSLX20 DSLX14	14.12.2021 17:36:32 14.12.2021 17:35:53	log4j log4j-1.2		/root/apache-tomcat-90.56/ib/apache-log4j-2.15.0-bin/log4j.jar /usr/share/java/log4j-12.jar
	> 🗁 AD DS Security		do cus napsports.com do cus napsports.com	DSLX14 DSLX14	14.12.2021 17:35:53	1094j-1.2 1094j-1.2.17	1,2,17	/usr/share/java/log4j-12.jar /usr/share/maven-repo/log4j/log4j/12.17/log4j-12.17.jar
ense	> 🗁 Amazon Web Services		docus napsports.com	DSLX14	14.12.2021 17:35:53	log4j-1.2.x	1.000	/usr/share/marein/epo/log4j/log4j/12x1/log4j-12.11/jui
gement	> P Backup Veeam		docus napsports.com	DSLX14	14.12.2021 17:35:53	log4j-1.2-1.2.17	1,2,17	/usr/share/java/log4j-12-12.17.jar
			do cus napsports.com	DSL/20	14.12.2021 17:36:32	log4j-1.2-api-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-1.2-api-2.15.0 jar
D	> 🗁 Backup Exec		do cus napsports.com	DSL/20	14.12.2021 1736:32	log4j-1.2-api-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-12-api-2.15.0-javadoc.jar
Jobs	> 🗁 Dell EMC Isilon		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-1.2-api-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-12-api-2.15.0-sourcesjar
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	Operating System		docusnapsports.com	DSLX20	14.12.2021 1736:32	log4j-api-2.15.0-sources	2.15.0	/root/apache-tomcat-s0.56/lib/apache-log4/-2.15.0-bin/log4/-api-2.15.0-sources/ar
,o	Software Cumulated		docus napsports.com	DSU20	14.12.2021 17:36:32	log4j-appserver-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4i-2.15.0-bin/log4i-appserver-2.15.0.jar
nnect			do cus napsports.com	DSU/20	14.12.2021 17:36:32	log4j-appserver-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-appserver-2.15.0-javadoc.jar
meet	Software Detailed		do cus napsports.com	DSU/20	14.12.2021 17:36:32	log4j-appserver-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-appserver-2.15.0-sourcesjar
8	Software Linux		do cus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-cassandra-2.150	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-cassandra-2.150.jar
	Software Linux log4j		docus napsports.com	DSLX20	14.12.2021 1736:32	log4j-cassandra-2.150-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-cassandra-2.150-javadocjar
nysical	Software Linux log4i - Excel		do cus napsports.com do cus napsports.com	DSLX20 DSLX20	14.12.2021 17:36:32 14.12.2021 17:36:32	log4j-cassandra-2.150-sources log4j-core-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-cassandra-2.150-sourcesjar /root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-core-2.150.jar
structure	Software Mac		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-core-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-core-2.15.0-javadoc.jar
			docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-core-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-core-2.15.0-sourcesjar
ò	Software Windows		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-core-2.15.0-tests	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-core-2.15.0-tests.jar
gement	Software Windows System		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-couchdb-2.15.0	2.15.0	/root/apache-tomcat-9.0.56/lib/apache-log4j-2.15.0-bin/log4j-couchdb-2.15.0.jar
-	Windows Hotfixes		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-couchdb-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-couchdb-2.15.0-javadoc.jar
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	Windows Elcense Key		docus napsports.com docus napsports.com	DSU20	14.12.2021 1756:32	log4i-flume-ng-2.15.0	2.15.0	/root/apache-tomcat-s0.56/lib/apache-log4j-2.15.0-bin/log4j-docker-2.15.0-sourcesjan /root/apache-tomcat-s0.56/lib/apache-log4j-2.15.0-bin/log4j-flume-ng-2.15.0.jar
	000		docus napsports.com	DSL/20	14.12.2021 1736:32	log4j-flume-ng-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-logi/j-2.15.0-bin/log/j-flume-ng-2.15.0-javadocjar
	> 🗁 Infrastructure HW		do cus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-flume-ng-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/tib/apache-log4j-2.15.0-bin/log4j-flume-ng-2.15.0-sourcesjar
	> D Infrastructure Net		do cus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-iostreams-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-iostreams-2.15.0.jar
	> D Microsoft Exchange Online		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-iostreams-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-iostreams-2.15.0-javadoc.jar
	> P Microsoft Office 365		do cus napsports.com do cus napsports.com	DSLX20 DSLX20	14.12.2021 1736:32 14.12.2021 1736:32	log4j-iostreams-2.15.0-sources log4j-jcl-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-iostreams-2.15.0-sourcesjar /root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jcl-2.15.0.jar
	> D Microsoft Azure		do cus napsports.com do cus napsports.com	DSLX20 DSLX20	14.12.2021 17:36:32	log4j-jcl-2.15.0 log4j-jcl-2.15.0-javadoc	2.15.0	/root/apache-tomcat-sub.56/lib/apache-log4j-2.15.0-bin/log4j-jct-2.15.0jar /root/apache-tomcat-sub.56/lib/apache-log4j-2.15.0-bin/log4j-jct-2.15.0-jaradoc.jar
			docus napsports.com	DSU20	14.12.2021 17:36:32	log4i-icl-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4i-2.15.0-bin/log4j-1.12.15.0-sourcesiar
	> D Microsoft Exchange		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-jdbc-dbqp2-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jdbc-dbcp2-2.15.0.jar
	> D Microsoft SQL		docus napsports.com	DSLX20	14.12.2021 17:36:32	log4j-jdbc-dbcp2-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jdbc-dbcp2-2.15.0-javadocjar
	> D Network Services DFS		do cus napsports.com	DSLX20	14.12.2021 1736:32	log4j-jdbc-dbqp2-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jdbc-dbcp2-2.15.0-sourcesjar
	> 🗁 Security Windows		docus napsports.com	DSLX20	14.12.2021 1736:32 14.12.2021 1736:32	log4j-jmx-gui-2.15.0	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jmx-gui-2.15.0jar
	> > Virtualization Hyper-V		do cus napsports.com do cus napsports.com	DSLX20 DSLX20	14.12.2021 17:36:32 14.12.2021 17:36:32	log4j-jmx-gui-2.15.0-javadoc log4j-jmx-gui-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jmx-gui-2.15.0-javadoc.jar /root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jmx-gui-2.15.0-sourcesjar
			do cus napsports.com do cus napsports.com	DSL/20 DSL/20	14.12.2021 17:36:32	log4j-jmx-gui-2.15.0-sources	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jmx-gui-2.15.0-sourcesjar /root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jpa-2.15.0.jar
	> 🕞 Workstations		docus napsports.com	DSL/20	14.12.2021 17:36:32	log4j-jpa-2.15.0-javadoc	2.15.0	/root/apache-tomcat-90.56/lib/apache-log4j-2.15.0-bin/log4j-jpa-2.15.0-javadocjar
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Figure 9 - Report Linux Excel



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VERSION HISTORY

Date	Description
12/14/2021	Creation of the HowTo
12/16/2021	Update of the recommended log4j version
12/21/2021	Adaptation of search terms, addition of note on CPU utilization

