

# Docusnap X - Linux Inventory

Alternative authentication with RSA key or Sudo user



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# 1. INTRODUCTION

For the inventory of Linux systems with Docusnap the root user was needed in the past. Since the July 2019 version of Docusnap, it is possible to carry out the inventory using the **sudo** command. The command grants a user the right to execute selected processes and commands with the privileges of a higher privileged user.

Furthermore there are changes in the use of RSA keys for the Linux inventory. Currently (since July 2019) several RSA keys can be stored in Docusnap and used for the Linux inventory. **Existing RSA keys are migrated and can still be used** - see Figure 1!

Both alternatives for authentication on the Linux systems to be inventoried are helpful if the root user is not available or access via root user via SSH is blocked. Furthermore you can use the script-based inventory for Linux systems - HowTo.

This HowTo describes the use of one or more RSA keys and the necessary configuration to use a sudo user.



# 2. RSA KEY IN DOCUSNAP

### 2.1 CREATE AND USE RSA KEYS IN DOCUSNAP

Docusnap offers you the possibility to create or import RSA keys, in OpenSSH format, for the Linux inventory.

RSA keys can be created and managed in Docusnap administration. Navigate to the Docusnap - Management - Inventory - RSA Key.

Click the New button to create an RSA key. Enter a name for this and choose New. The key pair is encrypted using the RSA method. The key used is then encrypted again and stored in the database. A passphrase is not created.

If you want to increase security and additionally store a passphrase, you can create the RSA key with a thirdparty product (e.g. PuTTY Key Gen).

When creation is complete, you can preview the key - this is useful for better identification when using different RSA keys.

Now select Save and the RSA key has been successfully created.

You can repeat the above steps as often as you like, for example to create RSA keys for the different clients in your Docusnap environment and then use them.

With the button **Export PublicKey** you can export the public key and store it on the Linux systems - see chapter 2.3.

٨	Docusnap	Managerr	ent (Configurati	on, Man	agement a	and Custo	omization o	f Docus	snap)							
Clo	ose Manag	ement	GENERAL	INVE	INTORY	CUST	OMIZING	IT A	ASSETS	DIAG	GRAMS	IT CC	RRELATIO	ONS	LICENSE MANAGEMENT	
唱 Se	oftware Se erver Roles dditional 1	5 🖣	Active Directo Assignment C				<b>•</b> RS	■ RSA Key     Wile Wizard Configuration     System Groups			n					
		Window	WS		SNMP			Lin	ux		Othe	er				
Nam	RSA Key         Name:       RSA Schlüssel 3         Key Preview:       ssh-rsa AAAAB3NzaC1yVWTtP08LQ== docusnap         New       Import       Export PublicKey															
	NAME			RSA K	EY PREVI	EW										_
0	Migrate	d RSA Key		*												_
-0	RSA Sch	lüssel 1		ssh-rs	a AAAAB	a AAAAB3NzaC1yoxRpAf+WQ== docusnap										
<b>~</b> 0	RSA Sch	lüssel 2		ssh-rs	a AAAAB	3NzaC1	/0r/642m	5Q==	docusna	р						
<b>~</b> 0	RSA Sch	lüssel 3		ssh-rs	a AAAAB	3NzaC1y	/VWTtP0	8LQ==	docusna	р						

Fig. 1 - Navigation Docusnap Management - RSA Key



## 2.2 IMPORT OF AN EXISTING RSA KEY

An existing RSA key can be imported to Docusnap as follows.

Navigate to the Docusnap - Management - Inventory - RSA Key and select the New button.

In the next step, assign a Name to the key and select the Import button - select your existing RSA key.

Close Mana	gement GENERAL INV iearch 🖻 Active Directory es 🛱 Assignment Criteria	🚽 SNMP MIBs 🛛 🦻 Edit Switch	ASSETS DIAGRA	AMS IT CORRELATIONS W Wizard Configuration 턃 System Groups Other	LICENSE MANAGEMENT	
<b>RSA Key</b> Name: Key Preview:	RSA Key Import			New Import	Export PublicKey	
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Fig. 2 - Importing RSA Keys

If a passphrase is used for the key, you will be asked for it. The key is then stored in Docusnap.

d Entry	~
******	
<u>O</u> K <u>C</u> ancel	

Fig. 3 - Entering a Passphrase

With the button **Export PublicKey** you can export the public key and store it on the Linux systems - see chapter 2.3.



### 2.3 DEPOSIT RSA KEY ON LINUX SYSTEM

The described steps might differ between the Linux distributions. Please inform yourself in advance in which directory and which file the public key for your distribution is to be entered. The following application example is performed on a Ubuntu system (16.04.2 64-bit).

In this HowTo the software WinSCP is used, so that the public key is deposited on the Linux system.

Open WinSCP and establish the connection to the Linux system.

If the server is not yet known to the client, a security message is displayed. Click Yes to add the host key to the list of trusted machines.

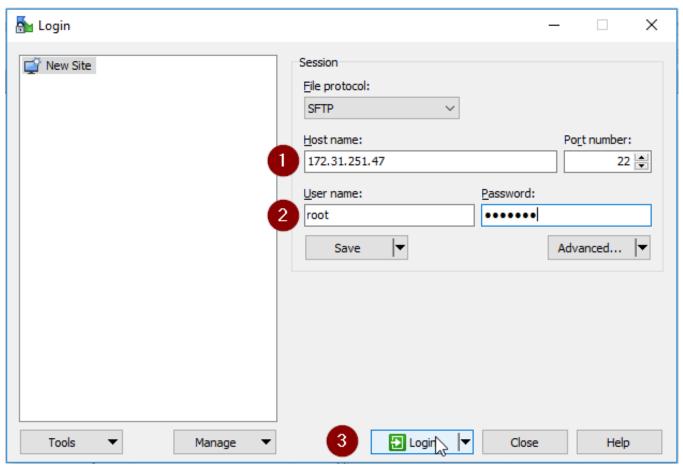


Fig. 4 - Establishing a WinSCP Connection



#### Step 1

After login, WinSCP changes to the home directory of the logged in user. If this is not the user you connect to via SSH in the future, change to the corresponding home directory.

#### Step 2

If hidden files and folders are not displayed, please click on the label that shows the number of hidden files.

🏊 root - root@172.31.251.	47 - WinSCP							×		
		n Ontions Pomoto	Halp				_			
Local Mark Files Commands Session Options Remote Help										
			Iransfer Settings	Default	1 🔝 🔻					
📮 root@172.31.251.47 📮										
늘 C: System 🔹				📕 root 🔹 🚰 🖸	7	E 🗖 🏠 🤁	🔍 Find Files			
🛿 🛃 Upload 👻 📝 Edit 👻	× 🖌 🕞	Properties 📑 🗈	+ - 🗸	🛛 🔛 Download 👻 📝 Ed	t - 🗙 🚮	🖉 Properties 📑 🖻	+ - V	]		
C:\Files				/root						
Name	Size	Туре	Changed	Name	Size	Changed	Rights			
<b>±</b>		Parent directory	20.12.2017 09:14:02			22.05.2017 10:50:17	rwxr-xr-:	x		
				bin 🔤		05.05.2010 16:04:57	rwxr-xr-:	x		
				Desktop		22.11.2017 17:04:09	rwxr-xr-:	x		
				Documents		22.05.2017 10:44:56	rwx	-		
				inst-sys		22.05.2017 10:18:05	rwxr-xr-	x		
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0 B of 0 B in 0 of 0				0 B of 0 B in 0 of 4			2 341	hidden		
						G SFTP-3	🦳 🦰 0:01	:20		

Fig. 5 - Connection to the Target System Established

Change to the directory .ssh and edit the file authorized\_keys there.

🍌 .ssh - root@172.31.	251.40_Ubuntu -	WinSCP						_		$\times$
Local Mark Files Co	mmands Sessio	n Options Remote	Help							
뒢 🔁 😓 Synchronize 🧊 🐙 👔 🏟 🎒 Queue 🔹 🛛 Transfer Settings Default 🔹 🥩										
📮 root@172.31.251.40	Ubuntu 🚅 N	ew Session								
👝 D: DOCUSNAP	- 🖆 🔽 🗄	🔶 • 🔶 • 🔁 💽	1 🔂 🔁 💁	.ssh	• 🔗 🔽 🔶 • =	► -	🖻 🗖 🏫 🎜 🔍 Fi	nd Files	2_	
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D:\05-Docusnap\LocalS	ettings\RSA\			/root/.ssh/						
Name	Size	Туре	Changed	Name		Size	Changed	Rights	;	Owner
<b>★</b>		Parent directory	02.01.2018 14:51:22	±		1	29.11.2017 11:16:44	rwx		root
OpenSSHKey	1 KB	File	02.01.2018 14:51:22	authorized_keys		2 KB	02.01.2018 15:03:51	rw-r	r	root
/root/.ssh/authoriz	ed_keys - root@1	72.31.251.40_Ubuntu -	Editor - WinSCP					_		×
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	- C1 2E A A A A			-07704-144406-0-6	T4K2-EC-1-4U0		0	C	-va	C CO2

ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAQEAitHezxJw5PhFn6aaD8h7EgGt3f/W0z07ZQdeHWUAGs0ohTiuK2oECq1ziU9xNr2+9bg3IPpVH0YB1c3zSrbE075EgY2ffrSQi

<	
Line:	2/1

Encoding: 1252 (ANSI - La Modified

Fig. 6 - Editing the authorized\_keys File



To store the previously created RSA key, an export of the PublicKey from Docusnap is required. Open the Docusnap - Management - Inventory - RSA Key and select the button Export PublicKey. Save the file. Open the file with a text editor and copy the PublicKey to the clipboard.

Switch back to WinSCP and insert the PublicKey in a new line. Save the file.

ssh - root@172.31.2	251.40_Ubuntu - 1	WinSCP					- [	) ×		
Local Mark Files Co	mmands Sessio	n Options Remote	Help							
🖶 😤 📚 Synchroni	ze 🗾 🥐 🔝	🛯 🏟 🗿 Queue	Transfer Settings Default	- 🥵 -						
🕎 root@172.31.251.40_Ubuntu 🙀 New Session										
💶 D: DOCUSNAP 🔹 🚰 🔽 🛧 🔹 🛧 🔂 😭 🔁 📴 🕞 🖕 🔜 🔂 🚰 🔛 🔂 🔂 🔂 🔂 🔂 🔂 🔂 🖓										
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D:\05-Docusnap\LocalS	ettings\RSA\			/root/.ssh/						
Name L OpenSSHKey	Size 1 KB	Type Parent directory File	Changed 02.01.2018 14:51:22 02.01.2018 14:51:22	Name • 1 authorized_keys	Size 2 KB	Changed 29.11.2017 11:16:44 02.01.2018 15:22:49	Rights rwx rw-rr	Owner root root		
/root/.ssh/authorize	ed_keys - root@1	72.31.251.40_Ubuntu	- Editor - WinSCP				- C	) X		
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			xJw5PhFn6aaD8h7EgGt3f/W JWCFmzIhMS4h00cSbhP/q+n							

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#### Fig. 7 - Store RSA Key

The PublicKey is now stored on the target system. The inventory can now be carried out. You only need to specify the user name in the wizard.



### 2.4 USING THE RSA KEY FOR THE INVENTORY

After the public key has been deposited on the Linux systems, the inventory can be carried out with it. Open the Linux Inventory Wizard. In step 3 you have the choice of which authentication you want to use.

You can select RSA keys for entire IP ranges and also for individual systems. The preselection from the IP ranges can be overwritten for individual systems.

If you do not use an RSA key, a password must be deposited. However, you can also use both authentication options - RSA key and password. Both variants are checked, the first one that is successful in the registration is used.

1	2	3		_(	4	- 5	
Selection Domain	Selection	Linux Systems		Sum	mary	Scheduling	I
inux Systems							
						Advanced	+ t
172.31.251.40	IP to:	172.31.251.49	×	1	IP FROM	IP TO	
docusnap	Password:	****	×	⊻ ∝	172.31.251.40	172.31.251.49	
22 📥 🗌 Use Sudo	RSA Kev:	Migrated RSA Key	•				
	New	, <no entry=""></no>					
	N <u>e</u> w	Migrated RSA Key					
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	New	Migrated RSA Key RSA Key 1		Sta <u>r</u> t Sea	arch <u>C</u> ar	Load	List
DSLX10	or IP:	Migrated RSA Key RSA Key 1 RSA Key 2	×		HOST NAME	IP ADDRESS	List
	or IP:	Migrated RSA Key RSA Key 1 RSA Key 2 RSA Key 3			HOST NAME DSLX10	IP ADDRESS 172.31.251.40	
docusnap		Migrated RSA Key RSA Key 1 RSA Key 2 RSA Key 3 172 .31 .251 .40	x		HOST NAME DSLX10 DSLX11	IP ADDRESS 172.31.251.40 172.31.251.41	
	or IP:	Migrated RSA Key RSA Key 1 RSA Key 2 RSA Key 3 172 .31 .251 .40			HOST NAME DSLX10 DSLX11 DSLX12	IP ADDRESS 172.31.251.40 172.31.251.41 172.31.251.42	
docusnap	or IP: Password:	Migrated RSA Key RSA Key 1 RSA Key 2 RSA Key 3 172.31.251.40 ***** Migrated RSA Key	×		HOST NAME DSLX10 DSLX11	IP ADDRESS 172.31.251.40 172.31.251.41	
	inux Systems 172.31.251.40	Selection Domain Selection     inux Systems      I72.31.251.40      IP to:      docusnap     Password:	Selection       Domain Selection       Linux Systems         Inux Systems       IP to:       172.31.251.49         docusnap       Password:       ******	r Selection Domain Selection Linux Systems inux Systems	Selection     Domain Selection     Linux Systems     Sum       Inux Systems     IP to:     172.31.251.49     IP to:     IP t	Zelection     Domain Selection     Linux Systems     Summary       inux Systems     IP to:     172.31.251.49     IP FROM       I72.31.251.40     IP to:     172.31.251.49     IP FROM       Idocusnap     Password:     ******     IP GO 172.31.251.40       I22      Use Sudo     RSA Key:     Migrated RSA Key	r Selection Domain Selection Linux Systems Summary Scheduling inux Systems I72.31.251.40 × IP to: 172.31.251.49 × IP FROM IP TO docusnap Password: ***** × 22 ÷ Use Sudo RSA Key: Migrated RSA Key ▼

Fig. 8 - Selection of the RSA Key



## 2.5 USE MIGRATED RSA KEYS FOR INVENTORY PURPOSES

If you have already used an RSA key in versions prior to July 2019, it was migrated automatically. The migrated key is also automatically used for scheduled Linux inventories - so you don't have to make any adjustments!

🚯 🕴 Docusnaj	p Management (Configuration, Mar	agement and Customization of Docus	snap)			– 🗆 🗙
Close Manag	gement GENERAL INV	ENTORY CUSTOMIZING IT A	ASSETS DIAGRAM	S IT CORRELATIONS	LICENSE MANAGEMENT	
↔ Software Se	earch 🔳 Active Directory	🚽 SNMP MIBs 🛛 ም Edit Switch	🗝 RSA Key	Wizard Configuration		
👫 Server Role	s 🛛 😽 Assignment Criteria	₽ SNMP Types 🔻 MAC Filter		System Groups		
🙉 Additional	Tools					
	Windows	SNMP	Linux	Other		
RSA Key						4 ⊳
Name:	Migrated RSA Key					
Key Preview:	*		Ne	w Import	Export PublicKey	
<u>N</u> ew	<u>D</u> elete <u>S</u> ave					
NAME	RSA	EY PREVIEW				
<b>=•</b> Migrate	d RSA Key *					

Fig. 9 - Migrated RSA Key



# 3. USE OF A SUDO USER

### 3.1 PERFORM SUDO CONFIGURATION

Before you can perform the Linux inventory with a user and the sudo command, you must perform a sudo configuration on the Linux systems - this is described below.

For the configuration you can use the Docusnap program directory - default path C:\Program Files\Docusnap X\Tools\scripts. In this script you will find all commands to which the sudo user is authorized.

Copy the script to the Linux system. In this HowTo the software WinSCP was used.

🍒 scripts - root@172.31.251.40 - WinSCP							- 0	×
Local Mark Files Commands Session O	ptions Remo	ote Help						
🖶 🔁 📚 Synchronize  📰 🔮	🖗 👔 Que	ue • Transfer Se	ttings Default	• <i>🛃</i> •				
🕎 root@172.31.251.40 💕 New Session								
🟪 C: SYSTEM 🔹 🤗 🔽 🔶	-> - <b>€</b>	🗈 🏫 🎜 🐾		🔹 🕶 🔽	> - 🔁 🔽	🏫 쀹 🔯 Find Files	2_	
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C:\Program Files\Docusnap X\Tools\scripts\				/root/			1	
Name	Size	Туре	Changed	Name	Size	Changed	Rights	Owne
<b>t.</b>		Parent directory	02.07.2019 07:53:07	<b>t</b>		30.06.2019 06:42:15	rwxr-xr-x	root
gensudo.sh	2 KB	SH-Datei	04.07.2019 09:02:38	local		29.03.2019 14:17:17	rwxr-xr-x	root
o365.key.creation.ps1	8 KB	Windows PowerS	28.03.2019 16:07:38	.gnupg		29.03.2019 14:19:40	rwx	root
				.cache		29.03.2019 14:19:41	rwx	root
				gensudo.sh	2 KB	25.03.2019 15:05:27	rwxr-xr-x	root
				.profile	1 KB	07.08.2018 00:35:13	rw-rr	root
				bashrc	4 KB 2 KB	07.08.2018 00:35:13 04.07.2019 08:36:23	rw-rr	root
< 1,68 KB of 9,24 KB in 1 of 2				<ul> <li></li> <li>1,68 KB of 6,44 KB in 1 of 7</li> </ul>		SFTP-	-3 🗐 0	:01:31

Fig. 10 - Copying the Script



Then connect e.g. with Putty to the console of the Linux system, edit the script to make it executable. Run it afterwards.

chmod +x Gensudo.sh

./gensudo.sh

```
🛃 root@DSLX10: ~
login as: root
root@172.31.251.40's password:
Welcome to Ubuntu 18.10 (GNU/Linux 4.18.0-16-generic x86 64)
   Documentation: https://help.ubuntu.com
  Management:
                    https://landscape.canonical.com
 * Support:
                    https://ubuntu.com/advantage
150 packages can be updated.
l update is a security update.
New release '19.04' available.
Run 'do-release-upgrade' to upgrade to it.
*** System restart required ***
Last login: Wed Jul 3 16:15:56 2019 from 192.168.103.39
root@DSLX10:~# 1s
gensudo.sh
root@DSLX10:~# chmod +x gensudo.sh
root@DSLX10:~#
root@DSLX10:~#
root@DSLX10:~# ./gensudo.sh
yourusername ALL = NOPASSWD: /usr/bin/openssl, /bin/grep, /bin/egrep, /usr/bin/awk, /bin/sed, /usr/bin/
wc, /usr/bin/dpkg, /usr/bin/dpkg-query, /usr/bin/whoami, /usr/bin/du, /bin/df, /sbin/ip, /bin/ps, /bin/cat
, /usr/bin/lspci, /usr/bin/sort, /bin/mount, /usr/bin/find, /usr/bin/head, /usr/bin/lsof, /usr/bin/tail,
usr/bin/tr, /usr/bin/lsusb, /usr/sbin/dmidecode, /usr/bin/lshw, /usr/bin/iconv, /bin/date, /usr/bin/rev,
usr/bin/cut, /bin/systemctl, /usr/bin/xrandr
root@DSLX10:~#
root@DSLX10:~#
root@DSLX10:~#
```

Fig. 11 - Making a Script Executable and Executing it

Copy the output and paste it into a text editor.

At the beginning of the output you have to change the following: Change YourUserName with the name of the sudo user. After completion of the configuration, the specified user has the permissions to execute the specified commands as root.

yourusername ALL = NOPASSWD: /usr/bin/openssl, /bin/grep, /bin/egrep, /usr/bin/awk, /bin/sed, /usr/bin/wc, /usr/bin/dpkg-query, /usr/bin/whoami, /usr/bin/du, /bin/df, /sbin/ip, /bin/ps, /bin/cat, /usr/bin/lspci, /usr/bin/sort, /bin/mount, /usr/bin/find, /usr/bin/bin/head, /usr/bin/lsof, /usr/bin/tail, /usr/bin/tr, /usr/bin/lsusb, /usr/sbin/dmidecode, /usr/bin/lshw, /usr/bin/iconv, /bin/date, /usr/bin/rev, /usr/bin/cut, /bin/systemctl, /usr/bin/xrandr

Please note that the previous version of the script was as of 07/04/2019. Changes could have taken place in the meantime.

Copy the custom output and switch back to Putty. Type **visudo** in Putty and go to the end of the file and paste the clipboard (right mouse button).



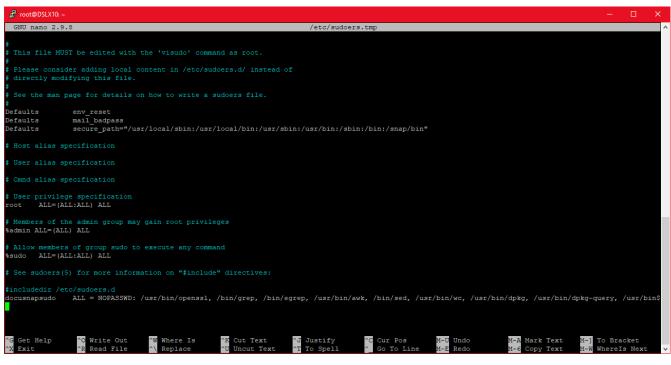


Fig. 12 - Inserted Script with Custom Username

Exit (Ctrl + X) and save (Y) the file with the existing filename (Enter).

You can use the cat /etc/sudoers command to check whether the changes have been applied.

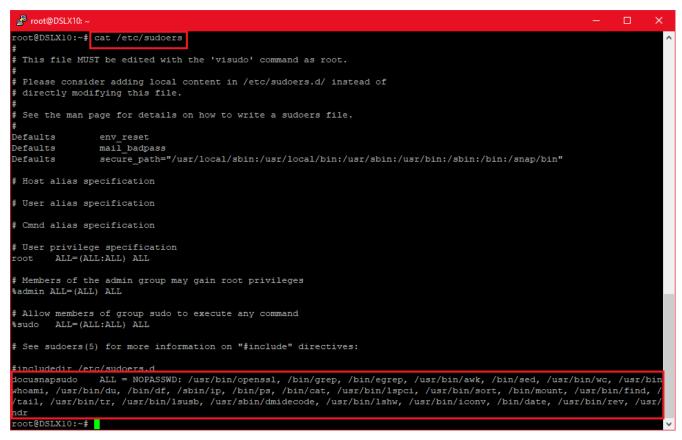


Fig. 13 - Reviewing the Change



# 3.2 ACTIVATE SUDO FOR INVENTORY

The inventory via the sudo user can then be activated in the Linux inventory wizard. Enter an IP address range, the user, his password and activate the option **Use Sudo**.

entory					
—(	12	)—	3	4	5
Company	y Selection Domain S	election	Linux Systems	Summary	Scheduling
/ Inventory L	inux Systems				
					Advanced 👻
Add IP Range					
IP from:	172.31.251.40	IP to:	172.31.251.41	IP FROM	IP TO
	docusnapsudo	Password:	*****	✓ ≪ 172.31.251.40	172.31.251.41
L					
Port:	22 🚔 🐷 Use Sudo	RSA Key:	<no entry=""></no>		
		N <u>e</u> w	/ Sa <u>v</u> e C <u>l</u> ear		
				Sta <u>r</u> t Search	Cancel Load List
Systems					
Host Name:	DSLX10	or IP:	172.31.251.40	HOST NAME	IP ADDRESS
User:	docusnapsudo	Password:	***** 🗙	DSLX10	172.31.251.40
Port:				DSLX11	172.31.251.41
Ford	22 🖨 🗹 Use Sudo	RSA Key:	<no entry=""></no>		
		<u>N</u> ew	/ <u>S</u> ave <u>D</u> elete		
				Back	Next Cancel

Fig. 14 - Activating sudo



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#### **VERSION HISTORY**

date	description				
January 11, 2018	Version 1.0 created				
October 24, 2018	Changed Screenshots				

