FUDO ONE INSTALLATION ON VMWARE

Download Fudo One image from:

https://fudosecurity.com/download-en/



Login to your VMware:





Select Create / Register VM:

	fudo-nuc.local - Virtual Machines
	Create / Register VM Provide Console Virtual machine
30	
	Quick filters ~
	30

Select Deploy a new virtual machine from an OVF or OVA file:

select creation type	Select creation type	
Select OVF and VMDK files Select storage	How would you like to create a Virtual Machine?	
license agreements Deployment options Additional settings	Create a new virtual machine Deploy a virtual machine from an OVF or OVA file	This option guides you through the process of creating a virtual machine from an OVF and VMDK files.
feady to complete	Register an existing virtual machine	



Click Next

Choose proper storage on your VMware to store Fudo One (here we'll use ds02 as an example):

	ore							
Standard Persistent Memory Select a datastore for the virtual r	machine's co	nfiguration files	and all of its	virtual disks.				
Name	~	Capacity ~	Free	Туре	~	Thin pro \sim	Access	
datastore1		458.25 GB	27.42 GB	VMFS6		Supported	Single	
ds02		931.25 GB	264.3 GB	VMFS6		Supported	Single	
							2 iter	ns
	Standard Persistent Memory Select a datastore for the virtual of Name datastore1 ds02	Standard Persistent Memory Select a datastore for the virtual machine's control Name Name ~ datastore1 ds02	Standard Persistent Memory Select a datastore for the virtual machine's configuration files Name	Standard Persistent Memory Select a datastore for the virtual machine's configuration files and all of its of the virtual machine's configuration files and all of the vi	Standard Persistent Memory Select a datastore for the virtual machine's configuration files and all of its virtual disks. Name	Standard Persistent Memory Select a datastore for the virtual machine's configuration files and all of its virtual disks. Name	Standard Persistent Memory Select a datastore for the virtual machine's configuration files and all of its virtual disks. Name	Standard Persistent Memory Select a datastore for the virtual machine's configuration files and all of its virtual disks. Name

Click Next

Select your VM network, choose Thin disk provisioning:



Youi can ignore warning regarding missing disk image, just click Finish.



Task ~	Target ~	Initiator ~	Queued ~	Started ~	Result 🔺 🗸 🗸	Completed v
Upload disk - fudo-one-5.3.1-81372-disk1.vmdk (1 of 1)	🛐 Fudo One	root	03/10/2023 08:49:01	03/10/2023 08:49:01	■ ●	Running 81 %
Create VM	Fudo One		03/10/2023 08:49:00	03/10/2023 08:49:00	Completed successfully	03/10/2023 08:49:00
Rename	Dne - test serwerow	root	03/10/2023 08:39:53	03/10/2023 08:39:53	Completed successfully	03/10/2023 08:39:53
Import VApp	Resources	root	03/10/2023 08:49:00	03/10/2023 08:49:00	○	Running 81 %

Wait until Fudo One image will be uploaded to your VMware:

Recent tasks									
Task	~ Target	~	Initiator	~	Queued	~	Started	~	Result 🔺
Power On VM	🚰 Fudo One		root		03/10/2023 08:50:03		03/10/2023 08:50:03		Ocmpleted successfully
Import VApp	Resources		root		03/10/2023 08:49:00		03/10/2023 08:49:00		Ocmpleted successfully
Upload disk - fudo-one-5.3.1-81372-disk1.vmdk (1 of 1)	Fudo One		root		03/10/2023 08:49:01		03/10/2023 08:49:01		Ocompleted successfully
Create VM	Fudo One				03/10/2023 08:49:00		03/10/2023 08:49:00		Ocmpleted successfully
Rename	Dne - test serwerow		root		03/10/2023 08:39:53		03/10/2023 08:39:53		Ocmpleted successfully

Click to open your new Fudo One VM:

vmware esxi							n	oot@10.0.2.45 👻	Help 👻	Q Search	
Navigator 🛛	🕞 fudo-nuc.local - Virtual Machines										
✓ ☐ Host Manage	😚 Create / Register VM 👹 Console 🕨 Power on 🗧 Power off	Suspend C Refresh	💠 Actions						0	3, Fudo One	×
Monitor	. Virtual machine	Status	 Used space 	~	Guest OS	Host name	8	Host CPU	~ H	lost memory	~
- 🗿 Virtual Machines 🛛 🛐	🗆. 🎒 Fudo One	Normal	Unknown		FreeBSD 12 or later versions (64-bit)	Unknown		0 MHz	0	MB	
Test More VMs	Quick filters v										1 items 🦼
≺Q Networking ✓Q VM Network											
Monitor											
More networks											

vmware esxi"				root@10.0.2.45 - Help - Q Search	
Navigator	🕞 Fudo One				
	Console Montor P	Power of Power of II Suspend Q Reset / P Edit C Refresh Actions Fuld One Compatibility, ESIS 01 do later versions (64-bit) Compatibility, ESIS 01 do later versions (64-bit) Compatibility, ESIS 01 do later versions (64-bit) Compatibility, B Com	llowing you to perform operations on the g	United OS, e.g. graceful shutdown, reboot, etc. You should install VMware Tools. 🎲 Actions	PU III
Monitor					
More networks	- General Information		- Hardware Configuration		
	Networking		► 🔲 CPU	4 vCPUs	
	VMware Tools	VMware Tools is not installed.	Memory	8 GB	
	Storage	1 disk	Hard disk 1	32 GB	
	Notes	/ Edit note	INN Network adapter 1	VM Network (Connected)	
			Video card	16 MB	
	 Performance summary last home 	our	• Chers	Additional Hardware	
		Consumed host CPU Ready Consumed host memory	- Resource Consumption		
		8	Consumed host CPU	0 MHz	
	ි දි 80		Consumed host memory	0 MB	
	/ Res	b	Active guest memory	0 MB	
	D 60	4			
	⁵⁰ 40		Provisioned	32 GB	

Double click on black window to open terminal:

Fudo One 🖃 🖃 🛄 🌉 🏠 Actions 🚫 using 4 cylinder groups of 25.00MB, 800 blks, 3200 inodes. super-block backups (for fsck_ffs -b #) at: 192, 51392, 102592, 153792 (da0:mpt0:0:0:0): UNMAP failed, switching to WRITE SAME(16) with UNMAP BIO_DELET (da0:mpt0:0:0:0): UNMAP. CDB: 42 00 00 00 00 00 00 00 08 00 (da0:mpt0:0:0:0): CAM status: SCSI Status Error (da0:mpt0:0:0:0): SCSI status: Check Condition (da0:mpt0:0:0:0): SCSI sense: ILLEGAL REQUEST asc:24,0 (Invalid field in CDB) (da0:mpt0:0:0:0): Command byte 7 is invalid (da0:mpt0:0:0:0): Error 22, Unretryable error ELF ldconfig path: /lib /usr/lib /usr/lib/compat /usr/local/lib /usr/local/lib/n ss /usr/local/lib/per15/5.30/mach/CORE /usr/local/share/chromium 32-bit compatibility ldconfig path: Ø. Africa 1. America 2. Antarctica 3. Arctic 4. Asia 5. Atlantic 6. Australia 7. Europe 8. Indian Ocean 9. Pacific Ocean Please enter a region number:

Select your region number and confirm with Y:



Select your city number (if you can't scroll to find it, select any of them, you can change it later from GUI) and confirm with **Y**:

	Fudo One	🖬 🖬 🔤 🏠 Actions 🛞
40.	Rоме	
41.	Samara	
42.	San_Marino	
43.	Sarajevo	
44.	Saratov	
45.	Simferopol	
46.	Skopje	
47.	Sofia	
48.	Stockholm	
49. Fo	Tallinn	
50.	Tirane	
51.	Tiraspol	
52.	Ulyanovsk	
53.	Uzhgorod	
54.	Vaduz	
55.	Vatican	
56.	Vienna	
57.	Vilnius	
58.	Volgograd	
59. CO	Warsaw	
60.	Zagreb	
b1.	Zaporozhye	
bΖ.	Zurich	
P I e	ase enter a city number: 59	
Hre	you sure to continue with Warsaw (59)? (Y/n): Y	

Enter a date and time format and confirm with **Y**:

	Fudo One		🚯 Actions 🛞
43.	Sarajevo		
44.	Saratov		
45.	Simieropol		
46.	Skopje		
47.			
48.	Stockholm		
49. Fo	Tallinn		
50.	Tirane		
51.	Tiraspol		
5Ζ.	Ulyanovsk		
53.	Uzhgorod		
54.	Vaduz		
55.	Vatican		
56.	Vienna		
57.	Vilnius		
58.	Volgograd		
59. SS	Warsaw		
60.	Zagreb		
61.	Zaporozhye		
62.	Zurich		
Ple	ease enter a city number: 59		
Are	you sure to continue with Warsaw (59)? (Y/n): Y		
Ti۳	ezone has been changed.		
Ent Are	er a date and time [format: DD.MM.YYYY HH:MM]: 10.03.2023 you sure to continue with introduced date and time (Y/n):	98:56 Y	

Wait until installation will be completed:

Fudo One 🗔 🖬 🔲 🧱 🏠 Actions 🛞 Starting webproxyd. Starting whlsupportd. Starting callhomed. Starting archived. Starting devd. Starting pmonitord. Serial number: 89883072 Instance FUID: srz9-qdah-p5op-7pqs Mode: production Password for Fudo user admin: proxycrypto Fri Mar 10 08:56:21 CET 2023 FUDO, S/N 89883072, firmware 5.3.1-81372, fuid srz9-qdah-p5op-7pqs. To fix admin account, reset Fudo to factory defaults and change network settings, login as any superadmin with an appropriate password. FUDO (srz9-qdah-p5op-7pqs) (ttyv0) login:

Login as an admin, login: admin password: proxycrypto

Fudo One 🗔 🖬 🔲 🔤 🏠 Actions 🚫 Starting whlsupportd. Starting callhomed. Starting archived. Starting devd. Starting pmonitord. Serial number: 89883072 Instance FUID: srz9-qdah-p5op-7pqs Mode: production Password for Fudo user admin: proxycrypto Fri Mar 10 08:56:21 CET 2023 FUDO, S/N 89883072, firmware 5.3.1-81372, fuid srz9-qdah-p5op-7pqs. To fix admin account, reset Fudo to factory defaults and change network settings, login as any superadmin with an appropriate password. FUDO (srz9-qdah-p5op-7pqs) (ttyv0) login: admin Password:

You'll be asked to change default password to your own, follow script:

Fudo One 🗔 🖬 🔲 🧱 🏠 Actions 🛞 Starting devd. Starting pmonitord. Serial number: 89883072 Instance FUID: srz9-qdah-p5op-7pqs Mode: production Password for Fudo user admin: proxycrypto Fri Mar 10 08:56:21 CET 2023 FUDO, S/N 89883072, firmware 5.3.1-81372, fuid srz9-qdah-p5op-7pqs. To fix admin account, reset Fudo to factory defaults and change network settings, login as any superadmin with an appropriate password. FUDO (srz9-qdah-p5op-7pqs) (ttyv0) login: admin Password: Password change required. New password: Retype new password: 📕

Once completed, it should look like below:

```
Fudo One
                                                                 🗔 🗊 🛄 🌉 🏠 Actions 🚫
To fix admin account, reset Fudo to factory defaults
and change network settings, login as any superadmin
with an appropriate password.
FUDO (srz9-qdah-p5op-7pqs) (ttyv0)
login: admin
Password:
Password change required.
New password:
Retype new password:
*** FUDO configuration utility ***
Logged into FUDO, S/N 89883072, firmware 5.3.1-81372, fuid (srz9-qdah-p5op-7pqs)
1. Show status
2. Disks status and identification
3. Reset network settings
X. Reset Fudo to the factory defaults
0. Exit
Choose an option (^C anytime to abort) (0):
```

Select **3** to set up your Fudo One IP address:



Depending on you VM settings you'll see several network interfaces. Here we've got only one network interface named net0. Type proper name to configure its IP address:

Fudo One Password: Password change required. New password: Retype new password: *** FUDO configuration utility *** Logged into FUDO, S/N 89883072, firmware 5.3.1-81372, fuid (srz9-qdah-p5op-7pqs) 1. Show status 2. Disks status and identification 3. Reset network settings X. Reset Fudo to the factory defaults 0. Exit Choose an option (^C anytime to abort) (0): 3 Available network interfaces: net0 () ether: 00:0c:29:f0:66:5c Media: Ethernet autoselect Choose new management interface (net0): net0

Enter new IP address and mask for selected network interface base on your network addressing:

```
Fudo One
                                                                🗔 🗊 💷 🏥 Actions 🐼
Retype new password:
*** FUDO configuration utility ***
Logged into FUDO, S/N 89883072, firmware 5.3.1-81372, fuid (srz9-qdah-p5op-7pqs)
1. Show status
2. Disks status and identification
3.
  Reset network settings
X. Reset Fudo to the factory defaults
0. Exit
Choose an option (^C anytime to abort) (0): 3
Available network interfaces:
netØ ()
 ether: 00:0c:29:f0:66:5c
 Media: Ethernet autoselect
Choose new management interface (net0): net0
Enter new net0 IP address and netmask (eg. 192.168.1.1/24) (192.168.1.1/24): 10.
0.131.222/16
Enter new default gateway IP address:
```

Enter new default gateway IP address:

```
Fudo One
                                                                🗔 🖬 🗖 🧱 🚯 Actions 🛞
Retype new password:
*** FUDO configuration utility ***
Logged into FUDO, S/N 89883072, firmware 5.3.1-81372, fuid (srz9-qdah-p5op-7pqs)
1. Show status
2. Disks status and identification
Reset network settings
X. Reset Fudo to the factory defaults
0. Exit
Choose an option (^C anytime to abort) (0): 3
Available network interfaces:
netØ ()
 ether: 00:0c:29:f0:66:5c
 media: Ethernet autoselect
Choose new management interface (net0): net0
Enter new net0 IP address and netмask (eg. 192.168.1.1/24) (192.168.1.1/24): 10.
0.131.222/16
Enter new default gateway IP address: 10.0.0.1
Fudo One
                                                                🗔 🗊 🛄 🎬 🏠 Actions 🐼
2. Disks status and identification
Reset network settings
X. Reset Fudo to the factory defaults
0. Exit
Choose an option (^C anytime to abort) (0): 3
Available network interfaces:
netØ ()
 ether: 00:0c:29:f0:66:5c
 media: Ethernet autoselect
Choose new management interface (net0): net0
Enter new net0 IP address and netмask (eg. 192.168.1.1/24) (192.168.1.1/24): 10.
0.131.222/16
Enter new default gateway IP address: 10.0.0.1
1. Show status
2. Disks status and identification
3. Reset network settings
 Reset Fudo to the factory defaults
0. Exit
Choose an option (^C anytime to abort) (0):
```

Now open your web browser and type IP address of your Fudo One, accept risk by selecting Advanced:



and then Accept the Risk and Continue

attackers	could try to st	eal informat	ion like your p	basswords, emai	ls, or credit card d	letails.
Learn more	9					
				Go Back (Recommended)	Advanced.
10.0	.131.222 uses an	invalid secur	ity certificate.			
The	certificate is not	trusted beca	use it is self-sig	gned.		
Erro	r code: MOZILLA	PKIX_ERRO	R_SELF_SIGNE	D_CERT		
View	Cartificata					
view	Certificate					

Do not be afraid this time, such message is caused by unknown certificate:

<	Connection security for 10.0.131.222
CA YO	ou are not securely connected to this site.
You ha	ave added a security exception for this site.
	Remove Exception

	Page Info —	https://10	0.0.131.222/log	gin?next=	=%2F
	General	Media	Permissions	Securit	ty
Web Site Ide	entity				
Web site:	10.0.131.222				
Owner:	This web site does not s	upply owner	ship information.		
Verified by:	Wheel Systems				View Certificate
Privacy & Hi	story				
Have Lyisited	d this web site before toda	y? No			
Is this web si computer?	te storing information on i	my Yes of s	s, cookies and 13 site data	bytes	Clear Cookies and Site Data
Is this web s computer? Have I saved	te storing information on a any passwords for this we	my Yes of s ab site? No	, cookies and 13 site data	bytes	Clear Cookies and Site Data
Is this web s computer? Have I saved	ite storing information on any passwords for this we	my Yes of s ab site? No	a, cookies and 13 site data	bytes	Clear Cookies and Site Data
Is this web s computer? Have I saved Technical De Connection I	ite storing information on a any passwords for this we etails Encrypted (TLS_ECDHE_R	my Yes of s b site? No SA_WITH_A	s, cookies and 13 site data NES_256_GCM_SI	bytes HA384, 25	Clear Cookies and Site Data View Saved Passwords 6 bit keys, TLS 1.2)
Is this web s computer? Have I saved Technical De Connection I The page you	ite storing information on a any passwords for this we etails Encrypted (TLS_ECDHE_R u are viewing was encrypt	my Yes of s b site? No SA_WITH_A ed before be	s, cookies and 13 site data NES_256_GCM_SI eing transmitted c	bytes HA384, 25 over the Int	Clear Cookies and Site Data View Saved Passwords 6 bit keys, TLS 1.2) ernet.
Is this web s computer? Have I saved Technical De Connection I The page you Encryption m therefore unit	ite storing information on a any passwords for this we etails Encrypted (TLS_ECDHE_R u are viewing was encrypt nakes it difficult for unauth ikely that anyone read this	my Yes of s sb site? No SA_WITH_A ed before be norised peop s page as it	, cookies and 13 site data NES_256_GCM_Si eing transmitted c sie to view inform travelled across ti	bytes HA384, 25 over the Int ation travel he network	Clear Cookies and Site Data View Saved Passwords 6 bit keys, TLS 1.2) ernet. ling between computers. It is

You can add your own certificate to your Fudo One later.

Fudo One administration webpage should appear, login with Username: admin Password: your_new_password:

$\leftrightarrow \rightarrow G$	○ 🔓 아 https://10.0.131.222/login?next=%2F		\$ ල එ =
	Login Username admin Password j Login	FUDD ONE SECURE ACCESS TAILORED FOR SMALL & MEDIUM BUSINESSES	

That's all regarding installation of your Fudo One:

••• • •	Fudo × +		×		
$\leftarrow \ \rightarrow \ G$	○ A https://10.0.131.222		☆ ♡ ☆ =		
~	🏟 FUDO ONE		🙎 admin 🗸 🗸		
Dashboard	Dashboard		Keep me logged in O Dashlet's market O Full screen		
MANAGEMENT			LICENSE		
Sessions	0	0	License exp. date: unlimited		
🕾 Requests	CONCURRENT SESSIONS ₪	ACTIVE USERS	Servers 2 ^{/3}		
🐏 Users +					
Servers +	NODE	NEW SESSIONS (min) hour	day week Line Bar		
Accounts +	89883072 Disks Networks Storage Memory	CPU 1			
(+) Listeners +	Uptime: 23 minutes	775			
🚉 Safes +		0	B ¹⁰ B ¹⁰		
SETTINGS					
📄 System	EVENTS LOG	-	All Combined Errors Others Go to Events log 🖄 🗡		
Network c	10 Mar 2023 09:13:27 89883072 user User ad	nin authenticated using password logged in from address: 10.2.0.172.	user		
🔎 Authentic	10 Mar 2023 08:59:21 89883072 user User ad 10 Mar 2023 08:58:16 89883072 user User ad	min successfully changed his password. min authenticated using password logged in from address: localhost.	user		
🖬 Backups	10 Mar 2023 08:56:21 89883072 system Fudo str 10 Mar 2023 08:56:21 89883072 system Disk DA 10 Mar 2023 08:56:19 89883072 system System	arted. TAO (N/A) attached. information: .			
📩 Events log	10 Mar 2023 08:56:19 89883072 system System 10 Mar 2023 08:56:19 89883072 system System 10 Mar 2023 08:56:19 89883072 system System 10 Mar 2023 08:56:19 89883072 system System	System information: GEOM_ELI: Crypto: handware System information: GEOM_ELI: Encryption: AES-XT3 128 System information: GEOM_ELI: Device mirror/swap0.eli created. System information: Gio/mpt0:0::00): Error 22, Unretryable error			
	10 Max 9033 08:52:10 00003073 mintage Custam	isfermation (de0mat000000). Command buts 7 is involid	10.625531 👔 89883072 💿 srz9-qdah-p5op-7pqs 💿 5.3.1-81372. 🖹		

Now you can configure your Fudo One following admin manual:

https://fudoone.readme.io/docs

$\leftarrow \rightarrow \ \mathbb{C}$ \bigcirc \land https://fudoone.rea	dme.io/docs		E 🕁	ල එ ≡
FUDO (ONE			Discord Community	
v5.3 🏠 Home 🖽 Documentation	I Changelog		Q Search ≇κ	
INTRODUCTION System Overview Supported Protocols	System Overview		Suggest Edits	
Connection Mode Security Measures User Authentication Methods and Modes Data Model Dashboard	Fudo is an award-winning solution that provides you with secure, convenie devices. Aligned with the Zero-Trust approach, Fudo lets users connect to needed and for a specific reason. All authorized users' activity is constant! Used by thousands of users worldwide, Fudo is the perfect tool for manag Employees, Freelancers, Subcontractors, Vendors, and all other types of T Fudo One is a version tailored for startups and small&medium businesses.	nt access to servers and network/OT applications and accounts only when y monitored and recorded. ing access for DevOps, Admins, Privileged hird Parties.		
Deployment Scenarios Layout Themes System Footer QUICK START How To Quickly Set Connection Up ADMINISTRATION System Settings Network Configuration Authentication Backups and Retention Events Log	Login Uterrame Password Login	RE ACCESS DRED FOR L & MEDIUM NESSES		
OBJECTS MANAGEMENT Access Requests Servers Management	ⓒ Updated 3 months ago			