Smarten Implementation & Troubleshooting

User Manual

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1. Smarten Installation Manual (Linux)

1.1 Prerequisites and Compatibility

1.1.1 Require files and folder

- smarten.war / smarten.war.zip
- wildfly / wildfly.zip
- data folder / smartendata.zip
- oracle jdk 8 (java-8)

1.1.2 Prerequisites

- install oracle jdk8
- create system environment variable JAVA_HOME

1.2 Deploying Smarten on Application Servers

1.2.1 Install and set JAVA_HOME in Linux

For Centos, Fedora, Redhat, Arch Linux Download RPM file using below mention Dropbox link. <u>https://www.dropbox.com/s/mdl2zmapag3phvo/jdk-8u161-linux-x64.rpm?dl=0</u> install jdk rpm with root or sudo privileges # sudo rpm -Uvh jdk-8u161-linux-x64.rpm check you java home path using below mention command # update-alternatives --config java # JAVA_HOME

• For Ubuntu and Debain

Download tar.gz file using below mention Dropbox link. https://www.dropbox.com/s/rsz3fg8nlew1mcc/jdk-8u211-linux-x64.tar.gz?dl=0

sudo su # mkdir /opt/jdk # tar -zxf jdk-8u211-linux-x64.tar.gz -C /opt/jdk # update-alternatives --install /usr/bin/java java/opt/jdk/jdk1.8.211/bin/java 10 # update-alternatives --install /usr/bin/javac javac /opt/jdk/jdk1.8.211/bin/javac 100 # update-alternatives --display java # update-alternatives --display javac

The output should look like this:

java - auto mode

link currently points to /opt/jdk/jdk1.8.0_211/bin/java /opt/jdk/jdk1.8.0_05/bin/java - priority 100 Current 'best' version is '/opt/jdk/jdk1.8.0_05/bin/java'. javac - auto mode link currently points to /opt/jdk/jdk1.8.0_211/bin/javac

/opt/jdk/jdk1.8.0_05/bin/javac - priority 100

Current 'best' version is '/opt/jdk/jdk1.8.211/bin/javac'.

Note: Note down java path (/opt/jdk/jdk1.8.0_211) in any txt format for use in installing Wildfly as a services.

1.2.2 Step to install Smarten

- Download all zip file(data,wildfly,.war)
- unzip all file
- create directory name is smarten # mkdir smarten
- extract wildfly.zip in smarten folder
- extract smartndata.zip in smarten folder
- extract smarten.war.zip in smarten/wildfly/standalone/deployments/
- create empty file smarten.war.dodeploy in deployments folder using below mention path and command
 # cd smarten/wildfly/standalone/deployments/
 # touch smarten.war.dodeploy

1.2.3 Step to configure Smarten

1.2.3.1 Change memory setting

Open file standalone.conf from path shown below and make changes. # vi smarten/wildfly/bin/standalone.conf

This will allow you to modify java VM size parameters (-Xms and -Xmx) (where Xms is minimum heap size, Xmx is maximum heap size)

For example, to allow 10GB of heap memory, JAVA_OPTS="-Xms10G -Xmx10G"

1.2.3.2 Change HTTP port(default 8080)

Use this setting to modify Wildfly HTTP port value (by default port 8080). If another program running on your server users port 8080, Wildfly cannot use port 8080. In such cases, change this setting to allocate some other port number to wildfly.

Open file standalone.xml from path shown below and make changes.

vi smarten/wildfly/standalone/configuration/standalone.xml

<socket-binding-group name="standard-sockets" default-interface="public" portoffset="\${jboss.socket.binding.port-offset:0}"> <socket-binding name="http" port="\${jboss.http.port:80}"/> </socket-binding-group>

1.2.3.3 Permission on Wildfly application

Using below mention command give permission to Smarten application # chmod -R 775 smarten(dir name)

Configure Smarten URL for JPG/PNG/PDF export functionality
 Open file dbconf.properties from path show below
 # vi smarten/wildfly/standalone/deployments/smarten.war/conf/dbconf.properties

Make appropriate changes in below URL paramaeter as per Smarten URL: system.contextURL=http://localhost/smarten

1.2.3.4 Set SmartenData folder path

Create system.properties file using below mention path and add data folder location.

vi smarten/wildfly/standalon/deployments/smarten.war/conf/system.properites

Add your data folder path:

APPLICATION_PATH=/root/smarten/data and save file with wq!

1.2.3.5 Start Application Server form command prompt

To start Wildfly As on Linux run standalone.sh file from shell prompt

cd smarten/wildfly/bin
sh standalone.sh

1.2.3.6 Running Application Server as a system service, for Centos/Fedora/Redhat

* cp smarten/wildfly/docs/contrib/scripts/init.d/wildfly.conf /etc/default/wildfly.conf

* cp smarten/wildfly/docs/contrib/scripts/init.d/wildfly-init.redhat.sh /etc/init.d/wildfly

1.2.3.6.1 Edit the Wildfly.conf and uncomment following parameters

vi /etc/default/wildfly.conf

JAVA_HOME="/usr/lib/jvm/java-8-oracle"(The default path of jdk installed in your system)

JBOSS_HOME="/home/smarten/wildfly" (Location of Wildfly folder)

JBOSS_USER=root (Change user from wildfly to user having rights on wildfly folder)

JBOSS_MODE=standalone

1.2.3.6.2 Edit Wildfly init service and add following parameters

```
# vi /etc/init.d/wildfly
```

```
if [ -z "$JBOSS_HOME" ]; then
JBOSS_HOME="/home/mg/smarten/$NAME"(Set your wildfly home)
```

fi

if [-z "\$JBOSS_USER"]; then JBOSS USER=root (Set root user)

fi

1.2.3.6.3 Given root owner rights and permission on init services

chown -r root:root /etc/init.d/wildfly
chmod +x /etc/init.d/wildfly
chkconfig wildfly on
/etc/init.d/wildfly start

1.2.3.6.4 For Ubuntu, Debian

* cp smarten/wildfly/docs/contrib/scripts/init.d/wildfly.conf /etc/default/wildfly.conf

* cp smarten/wildfly/docs/contrib/scripts/init.d/wildfly-init.debian.sh
/etc/init.d/wildfly

1.2.3.6.5 Edit the wildfly.conf and uncomment following parameters

```
# vi /etc/default/wildfly.conf
JAVA_HOME="/usr/lib/jvm/java-8-oracle"(The default path of jdk installed in your system)
JBOSS_HOME="/home/smarten/wildfly" (Location of Wildfly folder)
JBOSS_USER=root (Change user from wildfly to user having rights on wildfly folder)
JBOSS_MODE=standalone
JBOSS_CONFIG=standalone.xml
```

1.2.3.6.6 Edit Wildfly init service and add following parameters

```
# vi /etc/init.d/wildfly
if [ -z "$JBOSS_HOME" ]; then
            JBOSS_HOME="/home/smarten/$NAME"(Set your wildfly home)
fi
if [ -z "$JBOSS_USER" ]; then
            JBOSS_USER=root (Set root user)
fi
```

chown -r root:root /etc/init.d/wildfly
chmod +x /etc/init.d/wildfly
update-rc.d wildfly default
systemctl enable wildfly
systemctl start wildfly

2. Linux Command Reference

2.1 SSH

SSH command used to take any linux system on remote. There is different way to take **ssh** connection. From Linux open terminal and following step.

ssh mg(user)@10.0.0.29(remote-ip)



After that there is password prompt enter the user's password and press enter.



(AWS LINUX instance ssh remote connection from linux)

When we need aws linux machine on remote ssh, following ssh command to take aws linux on ssh. Open terminal and following command.

Note: AWS linux instance require .pem key file to connect aws linux instance. So first get or download AWS linux instance .pem key file and put in any linux dir.

cd /home/mg/aws/ >> going to .pem file dir

ssh -i Bookanddine.pem(key file) ubuntu(user)@ec2-13-233-65-191.ap-south-1.compute.amazonaws.com(remote-ip or DNS) press enter.

Activities 🗉 Terminal 🔻	Thu 11:49		-	2	≛•0 ⊕ -
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mg@MG:~/aws\$ ssh -i Bookanddine.pem ubuntu@ec2-13-233-65-191.ap-south-1	1.compute.amazonaws.com				

After that you get Aws linux instance on ssh.



From windows there is many utility like bitwise, mobaxterm. Here is saw you mobaxterm example.

Install mobaxterm tool and open.



After that click on session tan in left side upper panel and click on ssh tab.



After that add remote host IP and check mark specify username and enter the remote username and click ok.

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Your ssh connection now add in session panel double click on that and enter remote user's password. You get linux remote ssh.



(AWS LINUX instance ssh remote connection from windows using Mobaxterm)

Note: AWS linux instance require .pem key file to connect aws linux instance. So first get or download AWS linux instance .pem key file and put in any dir.

Open Mobaxerm utility and create new ssh terminal session, add remote host IP and check mark specify username and enter the remote username and click ok.

remote host ip(aws instance public dns): ec2-52-66-175-253.ap-south-1.compute.amazonaws.com

Username: ubuntu(default aws ubuntu linux instance)

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After that click on advance setting and check mark Use private key tab and put .pem file location and click ok.

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-	swapni				2019	-08-20	root		• DISF	LAY		 (automatically set for menote server) 		
ode	apr-demo	1.09.301			2019	108-19	root							
5	_rshula_de	skton			201	-08-08	ibin		➤ For mo	ore info	, ctrl+c	click on <u>help</u> or visit our <u>website</u>		
4	.config	arres for			2015	-08-08	ubun							
8	R				2019	-08-08	ubun	Welcome	e to Ubur	ntu 16.0	04.6 LTS	(GNU/Linux 4,4,0-1092-aws x86 64)		
8	.cache				2019	80-80-4	ubun							
2	.local				2019	-08-08	ubun	* Docu	umentatio	in: <u>ht</u> t	tps://hel	<u>lp.ubuntu.com</u>		
1	dataForAW	/S			2019	-08-07	root	 Mana Supr 	agement:	ne	ps://tar	noscape.canonical.com		
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65	parth				2019	-07-19	root	Get o	loud sup	port w	ith Ubunt	tu Advantage Cloud Guest:		
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	cera				2019	-06-10	root							
	namco				2019	-06-10	root	Sys	sten rest	lart rec	uired **	26 2010 From 190 211 00 00		
	smarten_1	5-05-201	9		2019	-05-13	root	ubuntui	81n-172-3	1-4-77	-\$	30 2019 110m 100.211.55.59		
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	user_log				2019	104-29	root							
	backup				2019	-04-08	root							
	02-04-201	9			2019	-04-02	root							
	smarten_0	6-03-201	9		201	-03-05	root							
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	13-12-201	8			2018	-12-13	root							
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		1	Rema	ote monit	oring									
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Market		0		V								▼		ip-19

2.2 sudo su

sudo su command used to switch root(Administrator) privileges. Any linux system you fire any command using sudo su. Generally ssh connect with normal user after login normal user type sudo su command then you got root privilege access.

Ex.

mg@MG:~\$ ssh mg@10.0.0.29



mg@MG:~\$ sudo su

type normal user password

Activities 💿 Terminal 🕶		Thu 10:23		v 2	.
		mg@MG: ~			
	mg@MG: ~	×	mg@MG:~		× 🖭 👻
mg@MG:~\$ sudo su [sudo] password for mg: []					

root@MG:/home/mg# >> now you login with root privileges.

2.3 PWD

PWD command use to check print working directory. It prints the path of the working directory. **# mg@MG:~\$ pwd**

pwd command print what is current working dir.



Note:

All command fire using root privileges because normal user haven't administrator privileges(root).

2.4 mkdir command

mkdir command used to create dir. ex. create smarten directory.

root@MG:/home/mg/aws# mkdir smarten

Activities 🔄 Terminal 🕶	Thu 12:33		~	2	# 40 € -
	root@MG: /home/mg/aws				0 0 8
File Edit View Search Terminal Tabs Help					
mg@MG:~	×	root@MG: /home/mg/aws			× 🖭 👻
root@MG:/home/mg/aws# mkdir smarten					

2.5 chmod command

chmod command used to change the permissions of file or folder, which can be found separately for user, group, and world by adding:

* 4- read (r)

- * 2-write (w)
- * 1-execute (x)

Ex.

chmod -R 777 /home/mg/smarten/wildfly/standalone/deployments/smarten.war/phantom.js/linux

above command given full permission on phantom.js/linux folder.

our smarten folder we are given 775 permission , means user and group full rights on folder and other user only read and execute permission.

chmod -R 775 /home/mg/smarten

Activities 🔲 Terminal 🔻	Fri 14:43	 Image: A set of the set of the	品 40 〇 -
	root@MG: /home/mg		• • •
File Edit View Search Terminal Help			
root@MG:/home/mg# chmod -R 775 /home/mg/smarten			
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Using below mention command and refer the screen shot how to check permission on file and folder.

First going to dir which is you want see file or folder permission. In my scenario I would check smarten folder permission.

Is -I /home/mg/smarten

see below mention screen shot, on smarten folder permission is 777.

user, group and other give full permission.



2.6 Chown command

Chown command is used to change the owner and group of files, directories and links. Ex. i have check my smarten folder owner and group. using Is -I and folder name which folder you want see owner.

Is -I /home/mg/smarten

As per below screenshot my smarten folder owner is mg and group also mg(normal user). i want to change my smarten folder owner and group is root. Because normal user can't start wildfly service because normal user haven't permission.

Activities 🔲 Terminal 🔫	Fri 14:54	2	.ª 40 O -
	root@MG: /home/mg		ی 🕲 😑
File Edit View Search Terminal Help			
root@MG:/home/mg# ls -l smarten total 8			
drwxrwxrwx 11 mg mg 4096 Feb 27 2019 dtg			
root@MG:/home/mg#			

How to change owner group from file and folder. Using below mention command to change owner and group from file and folder.

chown -R root:root /home/mg/smarten



Now check your smarten folder owner and group.



2.7 Is command

Is command used to view file and folder list.

ex. Is -I >> list for file or folder

ex. Is -a >> list for hidden file or folder

Activities 🖬 Terminal 🔻		Wed 13:46	- 😪	2	.a •0 • -
		root@MG: /home/mg/smarten/wildfly			• • •
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root@MG:/home/mg/smart total 516	en/wildfly# ls -l				
COLL 330 COLL 330 Amarmarkuk 4 root root -marr-r1 foot root drawnarkuk 4 root root drawnarkuk 4 root root drawnarkuk 3 root root drawnarkuk 2 root root root@WG:/home/mg/snart	4006 Sep 17 15:10 0 Sep 17 15:10 4096 Feb 28 2018 4096 Feb 28 2018 40368 Oct 23 2017 7 40368 Oct 23 2017 7 4096 Feb 28 2018 2246 Oct 23 2017 4096 Sep 17 13:23 4099 Sep 17 13:23 4099 Sep 17 13:24 4096 Sep 17 12:44 4096 Sep 17 12:44 4096 Sep 17 12:44	eopyright.txt *Djbos.nodules.systen.pkgs=org.jboss.byteman' jboss.nodules.jar interfeatur kaAAML.txt spafk.warehouse velocity.log			

2.8 cd command

cd command used to going to any dir.

ex. you want going to wildfly/standalone/deployments dir, then used cd after that dir full path.

root@MG:~# cd /home/mg/smarten/wildfly/standalone/deployments/



2.9 cat command

cat command used to view file content. Like you want to view what is system. Properties path or where is wildfly dir. Both of example mention below.

mg@MG:~\$ cat /etc/default/wildfly.conf



2.10 VI command

vi is a file editor.vi command used to edit read file. Like you edit system. properties path or edit standalone.conf etc.

open any file using vi editor write vi after that file path.

root@MG:/home/mg# vi

smarten/wildfly/standalone/deployments/smarten.war/conf/system.properties



edit text from file press i for insert mode.



After add delete some text from file, you want save the file using below mention string.

Press Esc then :wq enter .



After edit file there is some unwanted content by mistake add and you want exit without save file then used below mention string. Are you exit from file without any changes.

Press Esc then :q!

Activities 🖾 Terminal 🔻	Wed 13:28	 2	品 🕪 🕛 👻
	root@MG: /home/mg		⊜ ⊜ ⊗
File Edit View Search Terminal Help			
APPLICATION_PATH=/home/mg/smarten/data/			
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2.11 MV command

mv command used to rename file and folder and also move file and folder.

Ex: in client system update Smarten new patch. We want rename existing .war and put new one in same location then used this command.

root@MG:/home/mg/smarten/wildfly/standalone/deployments# mv smarten.war (existing .war) smarten_18-09-2019(rename .war)



2.12 CP command

cp command used to copy files and folder.

Ex. We want to copy new license file in smarten.war/conf folder. There is already one license file and we want to copy new one. So first rename existing license file using **mv** command and after that copy new one using below mention command.

* First going to smarten.war/conf dir.

sudo su

cd /home/mg/smarten/wildfly/standalone/deployments/smarten.war/conf



mv license.bin license.old



Is -I (for verify)

Activities	🖬 Term	inal 🔻								W	ed 14:07								2		~	Å (• ٺ (
						root	@MG: /ł	home/mg	g/smarte	n/wildfly	/standalo	one/deplo	oyments/sr	marte	n.war/co	nf							
File Edit V	/iew Sear		inal Tai	bs He																			
root@inter	naUBI: /hoi	m ×		ma@l	MG: ~/a	NS ×	root	:@ip-172-	-31-23-89:	1 ×	root@M	IG: /home/	/ma/s ×		ot@MG:	/home/	ma/s	× r	ot@MG:	/horr	e/ma/	· 1	<u>а</u> . –
root@MG:/	nome/ma/s	smarten/	/wildf	lv/st	andalo	ne/dep	lovmen	ts/smar	rten.war	r/conf#	ls -l									,		_	
total 40																							
- FWXFWXFW	< 1 root	root 17	706 Au	ig 21	2018	app_set	ttings	.proper	rties														
- FWXFWXFW2	< 1 root	root 23	840 JU 390 Ju	1L 22	15:31	default	.prope t.conf	rttes															
- FWXFWXFW	< 1 root	root 1	102 Au	ig 21	2018	ec2.pr	operti	es															
- FWXFWXFW3	< 1 root	root 2	240 Au	ig 21	2018	fatrsc	hedule	r.xml															
- FWXFWXFW3	< 1 root	root 2	217 Se	p 17	12:48	license	e.old																
- FWXFWXFW2	< 1 root	root 34	480 An	19 21 17 11	11:11	spark	.prope	rtles	rties														
- FWXFWXFW	< 1 root	root e	605 Au	ig 21	2018	ssoCont	fig.pr	opertie	es														
- FWXFWXFW2	< 1 root	root	40 Ma	y 20	13:24	system	.prope	rties															
root@MG:/I	nome/mg/s	smarten/	/wildf	'ly/st	andalo	one/dep1	loymen	its/smar	rten.war	r/conf#													
																						<u> </u>	

cp -r /home/mg/Downloads/License-Minesh-Elegant\ Microweb.bin /home/mg/smarten/wildfly/standalone/deployments/smarten.war/conf /license.bin



ls -l

check below screenshot new license.bin file is copy successfully but root user's only read right permission. we want to 775 permission on license file. So following next command to give permission on the license.bin file.

Activitie	s 🖬	Termina	al 🔻											Wed	16:40										2	- A	40	ტ -
								roo	ot@M	G: /hor	me/mo	s/smart	ten/wil	ldflv/st	andalor	ne <i>l</i> deo	lovmen	ts/smai	rten.w	ar/conf							-	
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root@inc	ernaue	si: /nom.	^		m	g@w	IG: ~/a	WS	<u>^</u>	root@l	IP-1/2-	31-23-8	9:7	A IC	OLOMO	s: / nom	e/mg/s.	^	root@	MG: /n	ome/m	g/s	× roo	ROWO	:/nome	/mg/s	~	<u> </u>
total 44	/home	/mg/sm	arte	n/will	ιατιγ	/sta	indato	one/de	eproy	ments	i/smar	'ten.w	ar/co	NT# L														
- FWXFWXF	wx 1	root n	oot	1706	Aug	21	2018	app_s	setti	.ngs.p	proper	ties																
- rwxrwxr	wx 1	root r	oot	840	Juĩ	22 1	13:06	dbCor	nf.pr	opert	ies																	
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- FWXFWXF	WX 1	root r	00t	240	Aug	21	2018	licer	schee hee b	do.	XML																	
- FWXFWXF	wx 1	root r	oot	217	Sep	17 1	2:48	licer	nse.o	ld																		
- FWXFWXF	wx 1	root r	oot	1237	Aug		2018	quart	tz.pr	opert	tes																	
- FWXFWXF	wx 1	root r	oot	3480	Арг	11 1		sparl	k.cor	ifig.p	roper	ties																
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100 clina.	/ none	/////5/	arce		luity	/500	muaru	me/ue	eproy	ments	-/ shai	cen.w		··· # U														
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cd /home/mg/smarten/wildfly/standalone/deployments/smarten.war/conf



chmod -R 775 license.bin



2.13 PS command

PS command is used to provide information about the currently running process. Ex. i want to information about java process.

ps -aux | grep java (This command give me information about java process)

	-
rooc@ma: /home/mg) 😑 😣
ile Edit View Search Terminal Help	
oot@MG:/home/mg# ps -aux grep java []	

Smarten application running on java, and you can also get information where is Wildfly folder.



2.14 TOP Command

TOP command is used to show the Linux processes.

top



after top command press Shift+i

Activities 🗉	Terminal *						Fri 15:37	🕗 🗛 🐠 🔿 👻
							root@MG: /home/mg	000
File Edit View	Search Ter	minal Hele						
too 1512711	37 110 51 71	2 2 1/20	1	d more		7 0	4 9 33	
Tacke: 317 to	otal 1	unning	269 clee	ning	a stop	ned.	0 zomble	
%Cnu(s): 5.	7 us. 0.9	sv. 0.0	ni. 92.	0 id. 1	.3 wa.	0.0	hi. 0.0 si. 0.0 st	
KiB Mem : 12	203496 tota	l, 2734	540 free	, 48510	68 use	d, 4	\$17888 buff/cache	
KiB Swap: 7	834620 tota	al, 7834	620 free		0 use	d. 6	346852 avail Mem	
	DD NT	WIDT	0.5.5	CUD C	NCDU	NAME IN	TTUE - CONNAME	
16959 coot	20 0	VINI	RES		6.2	0.0	A:69 19 kworker/u8:8	
7390 root	20 0	51456	4264	3420 B	6.2	0.0	0:00.02 top	
1 root	20 0	225892	9724	6740 S	0.0	0.1	0:06.32 systemd	
2 root	20 0	0	0	0 5	0.0	0.0	0:00.00 kthreadd	
4 root	0 -20			0 I	0.0	0.0	0:00.00 kworker/0:0H	
6 root				0 I	0.0	0.0	0:00.00 mm_percpu_wq	
7 root				0 S	0.0	0.0	0:00.11 ksoftirqd/0	
8 root				0 I	0.0	0.0	0:29.70 rcu_sched	
9 root	20 0	θ	0	0 I	0.0	0.0	0:00.00 rcu_bh	
10 root	rt O	0	0	0 5	0.0	0.0	0:00.01 migration/0	
11 root	rt 0	0	0	0 5	0.0	0.0	0:00.04 watchdog/0	
12 root	20 0	9		0 5	0.0	0.0	0:88.00 cpuhp/8	
13 FOOT	20 0	2		0 2	0.0	0.0	0:00.00 cpunp/1	
14 FOOL		2		0 5	0.0	0.0	0:00.04 watchdog/1	
15 FOOL	20 0			0 5	0.0	8.6	A-88 89 kroftirad/1	
18 coot	0 - 20	ě.	ě	O T	0.0	0.0	0:00 00 kuorker/1:0H	
19 root	20 0	Å	ě	6 5	8.8	8.6	A:88 88 coubo/2	
20 root	rt 0	ő	ő	0 5	0.0	0.0	0:00.05 watchdog/2	
21 root	rt 0	0	8	0 5	0.0	8.0	0:00.01 migration/2	
22 root	20 0	0	0	0 5	0.0	0.0	0:00.11 ksoftirgd/2	
24 root	0 -20			0 I	0.0	0.0	0:00.00 kworker/2:0H	
25 root				05	0.0	0.0	0:00.00 cpuhp/3	
26 root				0 5	0.0	0.0	0:00.05 watchdog/3	
27 root				0 5	0.0	0.0	0:00.00 migration/3	
28 root	20 0	0	0	0 5	0.0	0.0	0:00.30 ksoftirgd/3	
30 root	0 -20	0	0	0 I	0.0	0.0	0:00.00 kworker/3:0H	
31 root	20 0	0	0	0 5	0.0	0.0	0:00.00 kdevtmpfs	
32 root	0 -20			0 1	0.0	0.0	0:00.00 neths	
33 Foot	20 0	8		0 5	0.0	0.0	0:00.00 rcu_tasks_kthre	
34 root	20 0	6		0 5	0.0	0.0	0:00.00 Kaudito	

2.15 Kill command

kill command is used to terminate process manually. First you find out process id using ps -aux | grep java and you get java process id.

ps -aux | grep java

java process id is 17029. I want terminate this process manually.



kill -9 17029(process id)



ps -aux | grep java (check again your java process terminate or not)

See below screenshot my Smarten java application terminate now and it's not running.



2.16 Touch command

Touch command is used to create empty file. # touch smarten.war.dodeploy

Activities 🖾 Terminal 👻	Mon 15:38		2	****
File Edit View Search Terminal Tabs Help	my@MC.~			600
root@ip-172-31-23-89: /home/ * root@internalJBI: /Data/smart *	root@VMTimeTekProd: /var/lib ×	root@MG: /home/mg/aws ×	mg@MG: ~	× 🖽 👻
mg@MG:~\$ touch smarten.war.dodeploy∐				
				į.
				į.

2.17 Nano command

nano is a file editor nano command used to edit read file. Like you edit system. Properties path or edit standalone.conf etc.

root@MG:/home/mg# nano smarten/wildfly/standalone/deployments/smarten.war/conf/system.properties



Ctrl+o >> used to overite Ctrl+x >> save and exit

2.18 DF & DU command

DF command is used to display information related to file systems about total space and available space.

df -h (This command display information about all partition space)

Activities] Terminal	-			Fri 15:50	1	# 40 O -
					root@MG: /home/mg		000
File Edit Viev	v Search		Help				
root@MG:/hom	e/ma# df	- h					
Filesystem	Size	Used	Avail	Use%	Mounted on		
udev	5.8G	0	5.8G	0%	/dev		
tmpfs	1.26	3.5M	1.2G	1%	/run		
/dev/sda6	907G	701G	161G	82%			
tmpfs	5.9G	262M	5.6G		/dev/shm		
tmpfs	5.0M	4.0K	5.0M		/run/lock		
tmpfs	5.9G		5.9G	0%	/sys/fs/cgroup		
/dev/loop1	1.0M	1.0M		100%	/snap/gnome-logs/61		
/dev/loop0	85M	85M		100%	/snap/simplescreenrecorder-mardy/4		
/dev/loop18	1.0M	1.0M		100%	/snap/gnome-logs/73		
/dev/loop4	3.8M	3.8M	Θ	100%	/snap/gnome-system-monitor/100		
/dev/loop22	165M	165M	0	100%	/snap/squirrelsql/22		
/dev/loop2	3.8M	3.8M	0	100%	/snap/gnome-system-monitor/95		
/dev/loop3	150M	150M	0	100%	/snap/gnome-3-28-1804/67		
/dev/loop14	43M	43M	0	100%	/snap/gtk-common-themes/1313		
/dev/loop10	55M	55M	0	100%	/snap/core18/1098		
/dev/loop17	89M	89M	0	100%	/snap/core/7396		
/dev/loop5	141M	141M	Θ	100%	/snap/sftpclient/74		2 1 2
/dev/loop9	4.3M	4.3M	Θ	100%	/snap/gnome-calculator/501		
/dev/loop11	4.2M	4.2M	0	100%	/snap/gnome-calculator/406		
/dev/loop8	36M	36M	Θ	100%	/snap/gtk-common-themes/1198		
/dev/loop12	15M	15M	0	100%	/snap/gnome-characters/296		
/dev/loop15	15M	15M	0	100%	/snap/gnome-characters/317		
/dev/loop7	141M	141M	0	100%	/snap/gnome-3-26-1604/92		
/dev/loop13	141M	141M	0	100%	/snap/sftpclient/80		
/dev/loop6	150M	150M	0	100%	/snap/gnome-3-28-1804/71		
/dev/loop19	55M	55M	. 0	100%	/snap/core18/1144		
/dev/loop21	174M	174M	0	100%	/snap/squirrelsql/54		
/dev/loop20	141M	141M		100%	/snap/gnome-3-26-1604/90		
/dev/loop16	90M	904		100%	/snap/core///13		
/dev/sda5	1.96	167M	1.00	10%	7000t		
tmprs	1.20	16K	1.26	1%	/run/user/120		
CAPTS	1.26	76K	1.26	1%	/run/user/1000		
copt States /hom	1.20		1.26	0%			
1 00 CENC: / NOM	e/ng# []						

DU command is used to display information related to file and folder space and size.

du -sh /home/mg/smarten (This command display information about smarten folder size)

Smarten folder size is 7.4 GB

Activities 🔲 Terminal 🔫		😪 👬 🕪 🕁 🗝
	root@MG: /home/mg	
File Edit View Search Terminal Help		
root@MG:/home/ng≢ du -sh /home/ng/smarten 7.4G /home/ng/smarten root@MG:/home/ng≢ ∐		

2.19 Free command

free command is used to display amount of free and used memory in the system. **# free -m** (Display amount of free and used memory in MB)



free -g (Display amount of free and used memory in GB)



2.20 cat/proc/cpuinfo

cat /proc/cpuinfo - This command is used to display cpu information.
cat /proc/cpuinfo



2.21 cat/proc/meminfo

cat /proc/meminfo - This command is used to display memory information
cat /proc/meminfo

Activities 🖾 Te	rminal +			Fri 16	04			.4 •0 ⊕ -
				real MUC: 0	eme (me		~	
				Tooc@ma. /i	ionie/ing			990
File Edit View Se	arch Termi	nal Help						
root@MG:/home/me	g# cat /p	roc/memin	fo					
MemTotal:	12203496	kB						
MemFree:	4203692	kв						
MemAvailable:	7831008	kВ						
Buffers:	241844	kВ						
Cached:	4213660	kB						
SwapCached:	Θ	kB						
Active:	4725384	kB						
Inactive:	2772076	kB						
Active(anon):	3044864	kB						
Inactive(anon):	742168	KB						
Active(file):	1680520	кв						
Inactive(file):	2029908	KB						
Unevictable:	80	KB						
MLOCKed:	7034630	KB						
Swaprotat:	7834620	KB						
SwapFree:	7834620	KB						
Durty:	404	KD						
AnonDonoci	2041004	kD kD						
Manoned:	1215052	LD LD						
Shmem:	745316	LB .						
Slah:	386688	kB						
SReclaimable:	232912	kB						
Slinceclaim:	73768	kB.						
KernelStack:	19456	kB						
PageTables:	88324	kB						
NES Unstable:	0	kB						
Bounce:	0	kB						
WritebackTmp:	ē	kB						
CommitLimit:	13936368	kв						
Committed AS:	12467828	kB						
VmallocTotal:	34359738	367 kB						
VmallocUsed:		kВ						
VmallocChunk:		kB						
HardwareCorrupte	≥d: 0	kB						
AnonHugePages:		kB						

2.22 Wget command

Wget command - This command is used to download the files from the web. Ex. I want download smarten.war using dropbox link.

wget -c https://www.dropbox.com/s/y1hmu9iwfhjs5vs/smarten-5.0.9.zip?dl=0

Activities 🗉 Terminal 🔻	Fri 16:22		8	1.400-
	root@MG: /home/mg			000
File Edit View Search Terminal Help				(A)
<pre>rootBWC;home/mg# upt - http://www.dropbox.co .2010.00.20 http://www.dropbox.com/ Resolving www.dropbox.com (www.dropbox.com) News.dropbox.com (www.dropbox.com) News.dropbox.com (www.dropbox.com) News.dropbox.com (www.dropbox.com). HTP request sent, awaiting response 301 How Location: //w/ar/ucs/20/MWHAY/Jaurten 5.0.1. News.drop.20 in 2021.0000000000000000000000000000000000</pre>	m/s/cws2nbynh874/snarten 5.0.8.rip7dLe0 y/s/cws2nbynh874/snarten 5.0.8.rip7dLe0 62.125.81.1,7628:100:031:1:32765101 162.125.81.1,143connected. df Pernamently 153/ray/cws2nbynh874/snarten 5.0.8.rip 154/ray/cws2nbynh874/snarten 5.0.8.rip 154/ray/cws2nbynh874/snarten 5.0.8.rip 15.0/ray/cws2nbynh874/snarten 5.0.8.ri	-BLNYCVNFAD4 DlG91lHOwvQR ent.com) content.com) dYubgDovJquIJ TCssM52QLABV bvOULLNNSJBI UbGSYAUTQwo zw15BLUJEr2t	2022a0k8lDRr:200 5_C-BLAYCMFAD 162.125.81.6, 162.225.81.6, 162.225.81.6 2.421.we59365 9.421.we59365 9.421.we59365 9.421.we59365 9.421.we59365 9.421.we59365 9.421.00000000000000000000000000000000000	x00MM6MMUVy 240230861DR 2420:100:60 1:44360 4!eyPlC0vCe 3:7M0FZX5h 000647107VA 000647107VA
smarten-5.0.8.ztp?dl=0 0%[] 1.24M	478KB/S	۵

2.23 Unzip command

unzip command is used to unzip to .zip file. Ex. I want unzip wildfly11.zip file

* First going to dir whhere is located wildfly11.zip file.

cd /home/mg/Pictures

Activities 🖾 Terminal 🔻	Wed 17:21		2 4 40 0 -
	root@MG: /home/mg/Pictures		00
File Edit View Search Terminal Tab			
root@internalJBI:/hom ×	mg@MG: -/aws * root@ip-172-31-23-89: / * root@MG: /home/mg/Pi * root@MG: /home/mg/s * r	oot@MG: /ho	me/mg/s × 🕮 🔹
-rw-rw-r1 mg mg 3044	45 Sep 20 15:44 'Screenshot from 2019-09-20 15-44-20.png'		
-rw-rw-r 1 mg mg 5758	7 Sep 20 15:45 'Screenshot from 2019-09-20 15-45-26.png'		
-rw-rw-r 1 mg mg 18642	26 Sep 20 15:50 'Screenshot from 2019-09-20 15-50-42.png'		
-rw-rw-r 1 mg mg 3283	1 Sep 20 15:53 'Screenshot from 2019-09-20 15-53-33.png'		
-rw-rw-r 1 mg mg 3748	38 Sep 20 15:56 'Screenshot from 2019-09-20 15-56-09.png'		
-rw-rw-r 1 mg mg 3549	24 Sep 20 15:56 'Screenshot from 2019-09-20 15-56-14.png'		
-rw-rw-r 1 mg mg 12703	1 Sep 20 16:03 'Screenshot from 2019-09-20 16-03-35.png'		
-rw-rw-r 1 mg mg 13923	6 Sep 20 16:04 'Screenshot from 2019-09-20 16-04-46.png'		
-rw-rw-r 1 mg mg 25054	1 Sep 20 16:22 'Screenshot from 2019-09-20 16-22-40.png'		
-rw-rw-r 1 mg mg 11581	8 Sep 20 16:31 'Screenshot from 2019-09-20 16-31-41.png'		
-rw-rw-r 1 mg mg 2904	1 Sep 20 16:31 'Screenshot from 2019-09-20 16-31-53.png'		
-rw-rw-r 1 mg mg 6426	9 Sep 24 18:40 'Screenshot from 2019-09-24 18-40-39.png'		
-rw-rw-r 1 mg mg 6169	3 Sep 24 18:40 'Screenshot from 2019-09-24 18-40-43.png'		
-rw-rw-r 1 mg mg 7288	36 Sep 30 16:19 'Screenshot from 2019-09-30 16-19-58.png'		
-rw-rw-r 1 mg mg 6132	6 Sep 30 16:20 'Screenshot from 2019-09-30 16-20-01.png'		
-rw-rw-r 1 mg mg 7146	6 Sep 30 17:18 'Screenshot from 2019-09-30 17-18-59.png'		
-rw-rw-r 1 mg mg 4201	5 Sep 30 17:20 'Screenshot from 2019-09-30 17-20-39.png'		
-rw-rw-r 1 mg mg 10727	9 Oct 3 13:03 'Screenshot from 2019-10-03 13-03-27.png'		
-rw-rw-r 1 mg mg 19486	4 Oct 4 18:16 'Screenshot from 2019-10-04 18-16-41.png'		
-rw-rw-r1 mg mg 4053	6 Oct 9 14:06 'Screenshot from 2019-10-09 14-06-53.png'		
-rw-rw-r 1 mg mg 10265	9 Oct 9 14:07 'Screenshot from 2019-10-09 14-07-04.png'		
-rw-rw-r 1 mg mg 10347	4 Oct 9 14:07 'Screenshot from 2019-10-09 14-07-21.png'		
-rw-rw-r 1 mg mg 10291	4 Oct 9 14:07 'Screenshot from 2019-10-09 14-07-34.png'		
-rw-rw-r 1 mg mg 4658	2 Oct 9 14:09 'Screenshot from 2019-10-09 14-09-58.png'		
-rw-rw-r 1 mg mg 5078	9 Oct 9 14:11 'Screenshot from 2019-10-09 14-11-09.png'		
-rw-rw-r 1 mg mg 10709	9 Oct 9 16:40 'Screenshot from 2019-10-09 16-40-52.png'		
-rw-rw-r 1 mg mg 5154	7 Oct 9 16:44 'Screenshot from 2019-10-09 16-44-33.png'		
-rw-rw-r 1 mg mg 11429	3 Oct 9 16:44 'Screenshot from 2019-10-09 16-44-37.png'		
-rw-rw-r 1 mg mg 5106	4 Oct 9 16:48 'Screenshot from 2019-10-09 16-48-33.png'		
-rw-rw-r 1 mg mg 13879	0 Oct 9 16:48 'Screenshot from 2019-10-09 16-48-59.png'		
-rw-rw-r 1 mg mg 4485	8 Oct 9 16:51 'Screenshot from 2019-10-09 16-51-10.png'		
-rw-rw-r 1 mg mg 13349	7 Oct 9 16:56 'Screenshot from 2019-10-09 16-56-36.png'		
-rw-rw-r 1 mg mg 1225	8 Jun 28 13:15 standalone.sh		
-rwxrwxrwx 1 mg mg 54588	6 Dec 21 2018 thumb-1920-429287.png		1
-rw-rr 1 root root 15914891	9 Oct 9 17:20 Hildfly-11.0.0.Final.210		
root@MG:/home/mg/Pictures# []			

unzip wildfly-11.0.0.final.zip

			root@MG: /home/mg/Pictures	
ot@internalUBI: /h	×	mg@MG: -/aws	* root@ip-172-31-23-89: / * root@MG: /home/mg/Pi *	root@MG: /home/mg/s × root@MG: /home/mg/s ×
w-rw-r 1 mg	ng	30445 Sep 20 15:44	'Screenshot from 2019-09-20 15-44-20.png'	da da da da
w-rw-r 1 mg	ng	57507 Sep 20 15:45	'Screenshot from 2019-09-20 15-45-26.png'	
w-rw-r 1 mg	mg	186426 Sep 20 15:50	'Screenshot from 2019-09-20 15-50-42.png'	
w-rw-r 1 mg	ng	32831 Sep 20 15:53	'Screenshot from 2019-09-20 15-53-33.png'	
w-rw-r 1 mg	ng	37488 Sep 20 15:56	'Screenshot from 2019-09-20 15-56-09.png'	
w-rw-r 1 mg	ng	35494 Sep 20 15:56	'Screenshot from 2019-09-20 15-56-14.png'	
w-rw-r 1 mg	mg	127031 Sep 20 16:03	'Screenshot from 2019-09-20 16-03-35.png'	
w-rw-r 1 mg	ng	139236 Sep 20 16:04	'Screenshot from 2019-09-20 16-04-46.png'	
w-rw-r 1 mg	ng	250541 Sep 20 16:22	'Screenshot from 2019-09-20 16-22-40.png'	
w-rw-r 1 mg	ng	115818 Sep 20 16:31	'Screenshot from 2019-09-20 16-31-41.png'	
w-rw-r 1 mg	mg.	29041 Sep 20 16:31	'Screenshot from 2019-09-20 16-31-53.png'	
w-rw-r 1 mg	ng	64269 Sep 24 18:40	'Screenshot from 2019-09-24 18-40-39.png'	
w-rw-r 1 mg	ng	61693 Sep 24 18:40	'Screenshot from 2019-09-24 18-40-43.png'	
w-rw-r 1 mg	ng	72886 Sep 30 16:19	'Screenshot from 2019-09-30 16-19-58.png'	
w-rw-r 1 mg	ng	61326 Sep 30 16:20	'Screenshot from 2019-09-30 16-20-01.png'	
W-FW-F 1 Mg	mg	71466 Sep 30 17:18	'Screenshot from 2019-09-30 17-18-59.png'	
w-rw-r 1 mg	ng	42015 Sep 30 17:20	'Screenshot from 2019-09-30 17-20-39.png'	
W-FW-F 1 mg	ng	107279 Oct 3 13:03	'Screenshot from 2019-10-03 13-03-27.png'	
w-rw-r 1 mg	mg	194864 Oct 4 18:16	'Screenshot from 2019-10-04 18-16-41.png'	
w-rw-r 1 mg	ma	40536 Oct 9 14:06	'Screenshot from 2019-10-09 14-06-53.png'	
w-rw-r 1 mg	mg	102659 Oct 9 14:07	'Screenshot from 2019-10-09 14-07-04.png'	
w-rw-r 1 mg	mq	103474 Oct 9 14:07	'Screenshot from 2019-10-09 14-07-21.png'	
W-FW-F 1 MG	ma	102914 Oct 9 14:07	'Screenshot from 2019-10-09 14-07-34.png'	
-rw-r 1 mg	ma	46582 Oct 9 14:09	'Screenshot from 2019-10-09 14-09-58.png'	
w-rw-r 1 mg	ma	50789 Oct 9 14:11	'Screenshot from 2019-10-09 14-11-09.png'	
-rw-r 1 mg	ma	107099 Oct 9 16:40	'Screenshot from 2019-10-09 16-40-52.png'	
W-FW-F 1 mg	ma	51547 Oct 9 16:44	'Screenshot from 2019-10-09 16-44-33.png'	
1 mg	ng	114293 Oct 9 16:44	'Screenshot from 2019-10-09 16-44-37.png'	
1 mg	BQ	51064 Oct 9 16:48	'Screenshot from 2019-10-09 16-48-33.ppg'	
w-rw-r 1 mg	ma	138790 Oct 9 16:48	'Screenshot from 2019-10-09 16-48-59.png'	
	ma	44858 Oct 9 16:51	'Screenshot from 2019-10-09 16-51-10,png'	
-rw-r 1 mg	BO	133497 Oct 9 16:56	'Screenshot from 2019-10-09 16-56-36, ppg'	
	80	12258 Jun 28 13:15	standalone.sh	
AXEMXEWX 1 MG	ng.	545886 Dec 21 2018	thumb-1920-429287.png	
4-FF 1 roo	t root 1	59148919 Oct 9 17.28	wildfly-11.0.0.Final.zin	

ls -l (For verify extract folder)

Activities 🖾 Terminal 🔻		Wed 17:24	- U 👫 💈 🤡
		root@MG: /home/mg/Pictures	00
File Edit View Cearch Term	inal Tabe Hele		
File Edic view Search Term			
root@internalJBI:/hom *	mg@MG: -/aws	root@ip-172-31-23-89: / * root@MG: /home/mg/Pi * root	@MG:/home/mg/s * root@MG:/home/mg/s * 🕰
-rw-rw-r 1 mg mg	37488 Sep 20 15:56	'Screenshot from 2019-09-20 15-56-09.png'	
-rw-rw-r 1 mg mg	35494 Sep 20 15:56	'Screenshot from 2019-09-20 15-56-14.png'	
-rw-rw-r 1 mg mg	127031 Sep 20 16:03	'Screenshot from 2019-09-20 16-03-35.png'	
rw-rw-r 1 ng ng	139236 Sep 20 16:04	Screenshot from 2019-09-20 16-04-46.png	
rw-rw-r 1 mg mg	250541 Sep 20 16:22	Screensnot from 2019-09-20 16-22-40.png	
-rw-rw-r 1 Hg Hg	20041 Cop 20 16:31	Screenshot from 2019-09-20 16-31-41.png	
cw-cw-c 1 mg mg	64269 Sep 24 19:48	Screenshot from 2019-09-20 10-31-33.png	
EN-EN-E- 1 mg mg	61693 Sep 24 18:40	Screenshot from 2019-09-24 10-40-43 png	
-rw-rw-r 1 mg mg	72886 Sep 38 16:19	'Screenshot from 2019-09-30 16-19-58.000'	
rw-rw-r 1 ng ng	61326 Sep 38 16:28	'Screenshot from 2019-09-30 16-20-01,000'	
-rw-rw-r 1 mg mg	71466 Sep 30 17:18	'Screenshot from 2019-09-30 17-18-59.png'	
rw-rw-r 1 mg mg	42015 Sep 30 17:20	'Screenshot from 2019-09-30 17-20-39.png'	
rw-rw-r 1 mg mg	107279 Oct 3 13:03	'Screenshot from 2019-10-03 13-03-27.png'	
rw-rw-r 1 mg mg	194864 Oct 4 18:16	'Screenshot from 2019-10-04 18-16-41.png'	
rw-rw-r 1 mg mg	40536 Oct 9 14:06	'Screenshot from 2019-10-09 14-06-53.png'	
rw-rw-r 1 mg mg	102659 Oct 9 14:07	'Screenshot from 2019-10-09 14-07-04.png'	
rw-rw-r 1 mg mg	103474 Oct 9 14:07	'Screenshot from 2019-10-09 14-07-21.png'	
rw-rw-r 1 mg mg	102914 Oct 9 14:07	'Screenshot from 2019-10-09 14-07-34.png'	
rw-rw-r 1 mg mg	46582 Oct 9 14:09	'Screenshot from 2019-10-09 14-09-58.png'	
rw-rw-r 1 mg mg	50789 Oct 9 14:11	'Screenshot from 2019-10-09 14-11-09.png'	
rw-rw-r 1 ng ng	107099 Oct 9 16:40	'Screenshot from 2019-10-09 16-40-52.png'	
rw-rw-r 1 mg mg	51547 Oct 9 16:44	'Screenshot from 2019-10-09 16-44-33.png'	
rw-rw-r 1 mg mg	114293 Oct 9 16:44	Screenshot from 2019-10-09 16-44-37.png	
rw-rw-r 1 mg mg	51064 Oct 9 16:48	Screenshot from 2019-10-09 16-48-33.png	
rw-rw-r 1 ng ng	138790 UCC 9 16:48	Screenshot From 2019-10-09 16-48-59.png	
rw-rw-r 1 mg mg	44858 OCT 9 16:51	Screensnot from 2019-10-09 16-51-10.png	
Twelwelee Ling Mg	204010 Oct 0 17:31	Screenshot from 2019-10-09 10-30-30.phg	
rwerwerter ing ng	304019 000 9 17:21	Screenshot from 2019-10-09 17-21-51.png	
ru-ru-ru- 1 mg mg	383417 Oct 9 17:23	Screenshot from 2019-10-09 17-23-21 png	
ru-ru-r- 1 mg mg	12258 Jun 28 13:15	standalone sh	
rwxrwxrwx 1 mg mg	545886 Dec 21 2018	thumb-1928-429287.nng	
rwxr-xr-x 10 root root	4096 Oct 23 2017	wildfly-11.0.0.Final	
rw-rr 1 root root	159148919 Oct 9 17:20	wildfly-11.0.0.Final.zip	
oot@MG:/home/mg/Picture	s# 🗌		

2.24 RM command

RM command - This command is used to remove objects such as files, directories.

Note:

Be carefully for rm command. If you type wrong path in after rm command your data will be lose and it's not recoverably.

I want to delete logs and temp from data and wildfly standalone folder using below mention command.

cd /home/mg/smarten/data/temp/ (First going to data temp dir)

rm -rf * (remove all temp file)



2.25 Service Command

Service command used to start stop status any service in Linux. Eg. I want to stop wildfly services.

sudo su

service wildfly stop



service wildfly status (for check wildfly services stop or not)



service wildfly start



service wildfly status

	💷 Terminal 🔻		Wed 16:56		2	. •0 O -
		root@MG: /home/mg/smarten/wil	dfly/standalone/deployments/sm	arten.war/conf		
File Edit \	/iew Search Tern	nal Tabs Help				
root@inter	nalJBI: /hom ×	mg@MG: ~/aws × root@ip-172-31-23-89: /	x root@MG: /home/mg/s ×	root@MG: /home/mg/s ×	root@MG: /home/mg/	s × 🖻 🔻
root@MG:// ● wildfly. Loadd Active: Docs: Process: Tasks: CGroup: Oct 09 16: Oct 00 16: Oct	sorvice - LSB loaded (/etc. active (runn anisystend- 18203 ExecSt. - 18203 ExecSt. - 18204 /bin, 18286 java Sile8 MG syste Sile8 MG wild Sil40 MG wild Sil40 MG syste /15 (END)	<pre>wildflyjstandalone/deployments/smarten.war/com Wildfly Application server init.d/wildfly; generated) model 2019-10-09 16:51:40 IST; 4min 26: fsv-generator(8) tra/etc/init.d/wildfly start (code=exited, star (wildfly.service th /home/mg/smarten/wildfly/bin/standalone.sh (D)Standalone) -server -sms26xmx26 -XXX2-0XX:HSs66 (D)Standalone) -server -sms26xmx26 -XXX2-0XX:HSs66 md[1]: Starting LSB: Wildfly Application Server (y[18203]]:fall (y[18203]]:fall (y[18203]]: + Wildfly Application Server md[1]: Started LSB: Wildfly Application Server</pre>	<pre>if# service wildfly status i ago uus=0/SUCCESS) c standalone.xnl GG -XX:HaxMetaspaceSize=51 rer wildfly c started within the timeou</pre>	2m -noverify -Djava.net.; t allowed.	oreferIPv4Stack=tru	Je −Djava.u

3. Smarten Troubleshooting

3.1 License File Troubleshooting

Sometime client's get license files error, then how to troubleshoot and support him.

- First check the license file is available in smarten.war/conf/.
- Second check the license file renames it's should be license.bin.
- Third check the date & time match current time.

How to check date & time in windows and Linux both of way mention below.

3.1.1 How to check date & time both in windows and Linux

3.1.1.1 In Windows

1. Press windows key and search date & time settings.



2. Click on Time Zone

Settings		- • ×
ය Home	Date & time	
Find a setting	Current date and time 4:21 AM, Monday, November 25, 2019	Related settings Date, time, & regional formatting Add clocks for different time zones
Image: Base of the second	Set time automatically off Set time zone automatically off Set the date and time manually Change	Have a question? Setting an alarm Setting up night light Get help Make Windows better
	Synchronize your clock Last successful time synchronization: 11/24/2019 9:11:41 AM Time server: time.windows.com Sync now Time zone (UTC-12:00) International Date Line West v	Give us feedback
	Adjust for daylight saving time automatically off Show additional calendars in the taskbar Don't show additional calendars	
Type here to search	ाम 📮 🤮 🔒 🖬 💼 🧌 🏧	へ 🖮 🦟 🕬 <mark>421 AM</mark> 11/25/2019 号 2

3. Set (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi



3.1.1.2 In Linux

1. Check current time with date command.

[root@localhost ~]# sudo date



2. Set IST timezone (Asia/Kolkata)

F P Type here to search

[root@localhost ~]# sudo timedatectl set-timezone Asia/Kolkata

H 🗖 🧕 🔒 ፍ 🚯 🌣 🕥 🗃 📚 📨

へ い (10:19 PM (た い)) 10:19 PM 11/25/2019 **そ**

an root@localhost:~	-		×
[root@localhost ~]# sudo timedatectl set-timezone Asia/Kolkata			^
			~
🕂 O Turpe herer to coarch 🖂 🖶 🔿 🚔 🚓 🕵 🔅 🔅 🕲 🔤 🐂 🦳 🛆	10:24	PM	
	11/25,	/2019	2

3. Verify timezon

[root@localhost ~]# timedatectl



3.2 Email Notification Troubleshooting

Sometime client face the email notification doesn't work. In that case check below mention point.

- 1. Confirm with client's email id and password is correct.
- 2. Check smtp port open or not in client environment Firewall.

For the example I will used Gmail smtp server. Are you use client smtp address instead of gmail smtp.

telnet command use for check port open or not. Go through below mention windows and Linux example.

3.2.1 In Windows

1. By default in Windows telnet client not installed, So perform first step to install telnet by self or told to client for install telnet.

Install telnet in windows:

Press Windows key and search control panel.



Open Control panel and click on Programs And Features.



Click on Turn Windows features on or off.

Control Panel Home View installed updates	Uninstall or change a program To uninstall a program, select it from the list i	and then click Uninstall, Change, or Repair.					beckup-pro- DT_CERA_S - Copy.xml	Soham_OL
aff	Organize +				(II •		Ceral	
	Name	Publisher	Installed On	Size	Version			
	7-Zip 16.04	Igor Pavlov	15-Dec-16	3.46 MB	16.04			
	2-Zip 17.01 beta (x64)	Iger Pavlov	01-Sep-17	4.82 MB	17.01 beta		egd.png	
	Adobe Acrobat Reader DC	Adobe Systems Incorporated	13-Nov-19	352 MB	19.021.20056	- 11	server.log.1	
	Advanced IP Scanner 2.4	Famatech	04-Jan-17	21.4 MB	2.4.2601			
	Amazon Redshift ODBC Driver 64-bit	Amazon Corporate LLC	18-Jan-18	38.1 MB	1.3.7.1000			111
	Avvo Command Line Interface	Riture Limited	27-781-18 15 Dec 16	30/1 MB	7.15		100	Password
	C CCleaner	Pieforn	12-Jul-17		5.32			Shertalsr
	Cisco Systems VPN Client 5.0.07.0440	Cisco Systems, Inc.	22-Feb-18	10.6 MB	5.0.7		corona	
	Cisco Webex Meetings	Cisco Webex LLC	15-Oct-19					
	Uropbox	Dropbox, Inc.	16-Nov-19		85.4.155		10	
	CaseUS Todo Backup Free 10.0	CHENGDU YIWO Tech Develop	12-Apr-17	483 MB	10.0			
	eScan Total Security for Business	MicroWorld Technologies Inc.	01-Apr-19	1.59 GB	14.0.1400.2103		Smartenap	
	FileZilla Client 3.25.1	Tim Kosse	05-May-17	23.4 MB	3.25.1		a lean	
	TortiClient	Fortinet Inc	24-May-18	53.5 MB	5.6.6.1167			10
	E1GnuWin32: OpenSSL-0.9.8h-1	GruWin32	15-May-17		0.9.8h-1			PriChata
	Golia Correct	Lood faile los	10-Dec-19	216 4/0	10.491			
	Inno Download Plugin version 1.5.1	Mitrich Software	09-Feb-18	1.67 MR	1.5.1			
	<					>		
Passion.	Currently installed programs Tot 101 programs installed	al size: 6.37 GB	_				evh	

After click on Turn Windows features on or off open one Windows features dialogues box.



<complex-block>

 Image: A start of the sta

Find Telnet client and click in empty box and then press ok.

Telnet client successfully installed in your windows system.

2. Perfom below mention telnet command to check port open or not. Press Windows+R key and type cmd and Enter.



Type telnet smtp.gmail.com 465

Note:

Use client's smtp host instead of smtp.gmail.com and port.



Port have already open then your desktop screen open blank black screen, means your smtp port is open.



Port have block by firewall then you see connecting error. Error is connecting to smtp.gmail.com could not open connection to the host.





3.2.2 In Linux

 By default in Linux telnet client preinstalled then open terminal and type mg@MG:~\$ telnet smtp.gmail.com 465



Port is already open then prompt is connected.

Activities	🗈 Terminal 🔻		Tue 14:46		لا 😒	. t0 U -
			mg@MG: ~			00
File Edit V						
	mg@MG:~ ×	mg@MG: ~/aws ×	root@ip-172-31-23-89: /home/ ×	root@ip-172-31-23-89: /home/ ×	mg@MG: ~/aws	×≞
<mark>ng@MG:#S:1</mark> Trying 74. Connected Escape cha	mg@MAG:- ** Elnet_shtp.gnall.co .125.24.108 to sntp.gnall.con. aracter is 'A]'.	mg@MG:-/aws ⊁ m 465	root@ip-172-31-23-@9; /home/ *	Toot@ip-172-31-23-69; /home/ *	mg@MG:-/aws	

When it's not open then prompt Trying to connecting.



3.3 Smarten application deployed failed

Some time when you started the Smarten application, smarten.war.dodeploy failed status in that case perform below mention process for resolved the issue.

1. Stop the Wildfly service

In Windows open run program using press Windows+r key. Type services.msc in run dialogue box and hit enter. Find Wildfly-4.5 services and stop it.

Services (Local)					
Wildfly-4.5	Name	Description	Status	Startup Type	Log On As
	C Web/Gent	Enables Windows, based nonreams to create access an	Running	Manual (Trinner Start)	Incal Service
Stop the service	Q WebEv Service Most for Summart Center	WebEy Support Center	Running	Automatic	Local Sustem
Eastart the service	Olympic-45	Wildfly Application Server	Ronning	Automatic	Local System
	Windows Audio	Manages audio for Windows-based programs. If this se-	Running	Automatic	Local Service
Description	Q Windows Audio Endpoint Builder	Manages audio devices for the Windows Audio service	Running	Automatic	Local System
Wildfly Application Server	Q Windows Biometric Service	The Windows biometric service gives client application		Manual	Local System
0.107	Q Windows Color System	The WcsPlugInService service hosts third-party Window		Manual	Local Service
	Q Windows Connect Now - Config Registrar	WCNCSVC hosts the Windows Connect Now Configura	Running	Manual	Local Service
	Q Windows Connection Manager	Makes automatic connect/disconnect decisions based	Running	Automatic (Trigger Start)	Local Service
	Q Windows Defender Network Inspection Service	Helps guard against intrusion attempts targeting know	100 C 10	Manual	Local Service
	Q Windows Defender Service	Helps protect users from malware and other potentially		Manual	Local System
	Q Windows Driver Foundation - User-mode Driver Framework	Creates and manages user-mode driver processes. This	Running	Manual (Trigger Start)	Local System
	G Windows Encryption Provider Host Service	Windows Encryption Provider Host Service brokers encr		Manual (Trigger Start)	Local Service
	Windows Error Reporting Service	Allows errors to be reported when programs stop worki		Manual (Trigger Start)	Local System
	Q Windows Event Collector	This service manages pensistent subscriptions to events		Manual	Network Service
	Q Windows Event Log	This service manages events and event logs. It supports	Running	Automatic	Local Service
	Q Windows Finewall	Windows Firewall helps protect your computer by previ-	Running	Automatic	Local Service
	G Windows Font Cache Service	Optimizes performance of applications by caching com	Running	Automatic	Local Service
	Windows Image Acquisition (WIA)	Provides image acquisition services for scanners and ca		Automatic	Local Service
	Q Windows Installer	Adds, modifies, and removes applications provided as a		Manual	Local System
	Q Windows Location Framework Service	This services monitors the current location of the syste		Manual (Trigger Start)	Local System
	Q Windows Management Instrumentation	Provides a common interface and object model to acce	Running	Automatic	Local System
	G Windows Media Player Network Sharing Service	Shares Windows Media Player libraries to other network		Manual	Network Service
	Q Windows Modules Installer	Enables installation, modification, and removal of Wind		Manual	Local System
	Q Windows Presentation Foundation Fort Cache 3.0.0.0	Optimizes performance of Windows Presentation Foun	Running	Manual	Local Service
	Windows Remote Management (WS-Management)	Windows Remote Management (WinRM) service imple		Manual	Network Service
	G Windows Search	Provides content indexing, property caching, and searc	Running	Automatic (Delayed Sta	Local System
	Windows Store Service (WSService)	Provides infrastructure support for Windows Store. This		Manual (Trigger Start)	Local System
	Q Windows Time	Maintains date and time synchronization on all clients a		Manual (Trigger Start)	Local Service
	🖓 Windows Update	Enables the detection, download, and installation of up		Manual (Trigger Start)	Local System
	G WinHTTP Web Proxy Auto-Discovery Service	WinHTTP implements the client HTTP stack and provid	Running	Manual	Local Service
	Q Wired AutoConfig	The Wired AutoConfig (DOT3SVC) service is responsibl	Running	Automatic	Local System
	Q WLAN AutoConfig	The WLANSVC service provides the logic required to co		Manual	Local System
	Q WMI Performance Adapter	Provides performance library information from Windo		Manual	Local System
	G Work Folders	This service syncs files with the Work Folders server, en		Manual	Local Service
	Q Workstation	Creates and maintains client network connections to re	Running	Automatic	Network Service
bitended Standard /	3				

2. After successfully stop the service move elegantjbi.lck file from data folder to another location.

Going to Smarten+data+DB folder.



mv elegantjbi.lck file to another location. Following mention below screenshot elegantjbi.lck file not available.

1 D 1 = 1			DB	- 0	×
File Home Share View					^ ()
Copy Paste Copy Copy path Copy Copy Copy path Copy	Delete Rename New Tolder	Properties Open - Select all Select none Invert selection Select Select Select Select Select Se			
(e) → ↑ ↓ This PC → Local Disk (C:)	:) > smarten > data > D8			v ⊘ Search D8	,p
Control	Norma degengel,Ling indegengelschaft degengelschaft indegenge	Date modified Type 04-De-115 1200 PM File rolder 103-an 193 5440 ML OLDS File 04-De-115 1200 PM LODS File 04-De-115 1200 PM SCIPT File 04-De-115 1200 PM SCIPT File	5ar 1963-198 193 193 76,313 93		
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5 itens === 🍓 😏 🞯 V2	9 🛗 🐖 🦉	N 🛛 🖾 🔍		- 改立5. 数 4 4 号 行 640	PM lec-19

After that start the Wildfly-4.5 services and Smarten Application deployed successfully.

eleganbjbi.lck file auto generated when Wildfly-4.5 services started. Following mention below screenshot, elegantjbi.lck file auto generated and Smarten Application successfully deployed.



3.4 Smarten file export issue

Smarten Export url is correct but still export file size generate is 0 KB. So in this scenario in Linux machine some packages is missing to generate file. So following below step to resolution.

3.4.1 In Ubuntu

sudo apt-get install fontconfig freetype freetype-devel fontconfig-devel libstdc++

- # sudo systemctl stop wildfly
- # sudo ps -aux | grep java (for verify java process running or not)
- # sudo systemctl start wildfly

3.4.2 In Fedora | Centos | Redhat

- # sudo yum install fontconfig freetype freetype-devel fontconfig-devel libstdc++
- # sudo systemctl stop wildfly
- # sudo ps -aux | grep java (for verify java process running or not)
- # sudo systemctl start wildfly