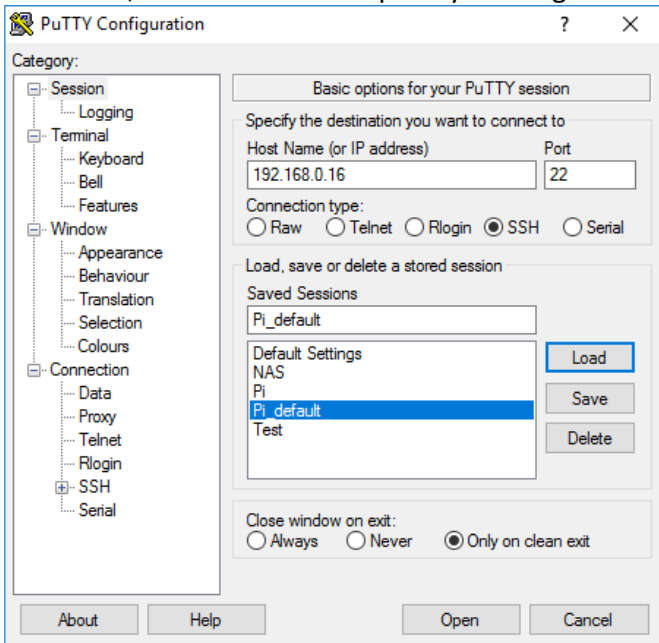


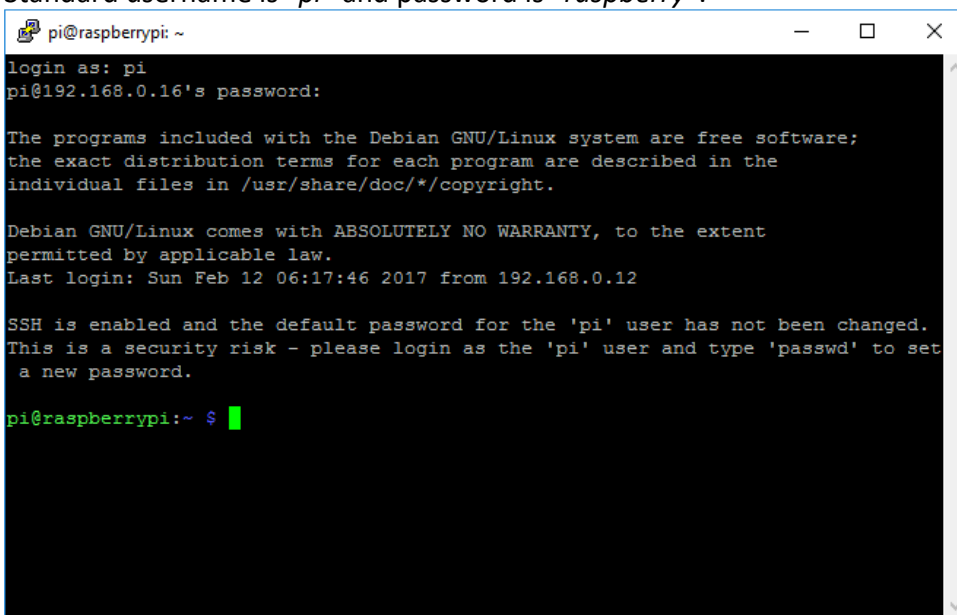
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12th February 2017

This guide will explain how to install Samba on Raspberry Pi 3 with Raspbian Jessie (January 2017).

First of all, connect to the Raspberry Pi using SSH connection, for example with Putty.

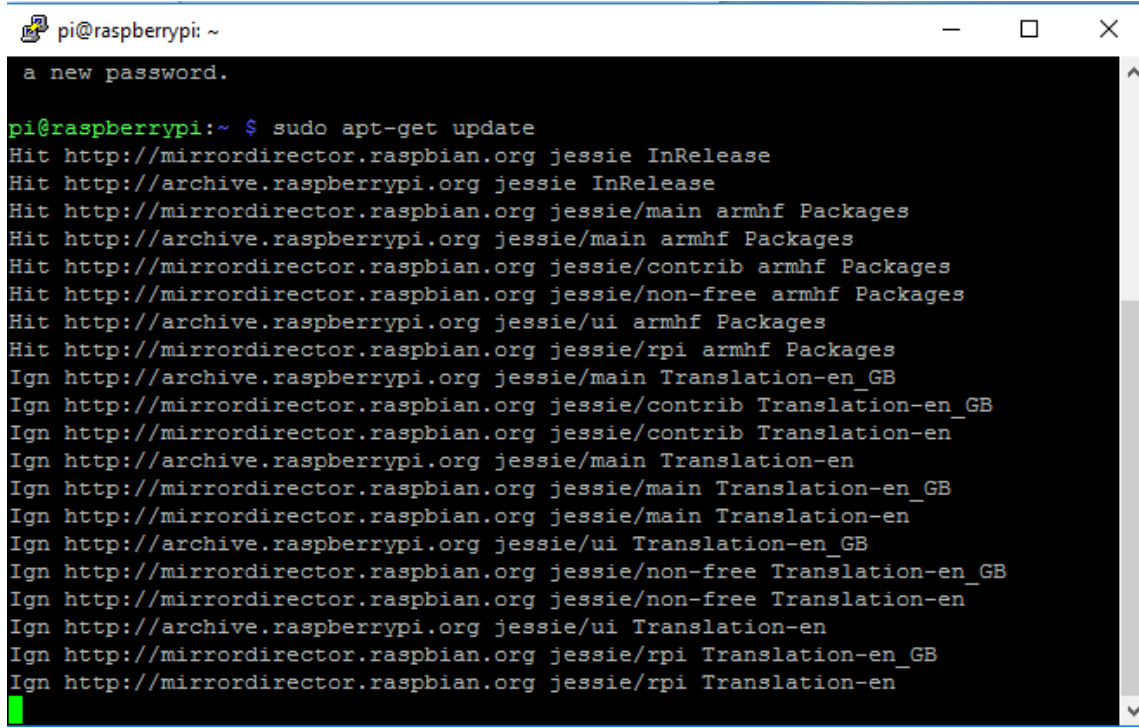


Standard username is “pi” and password is “raspberrry”.



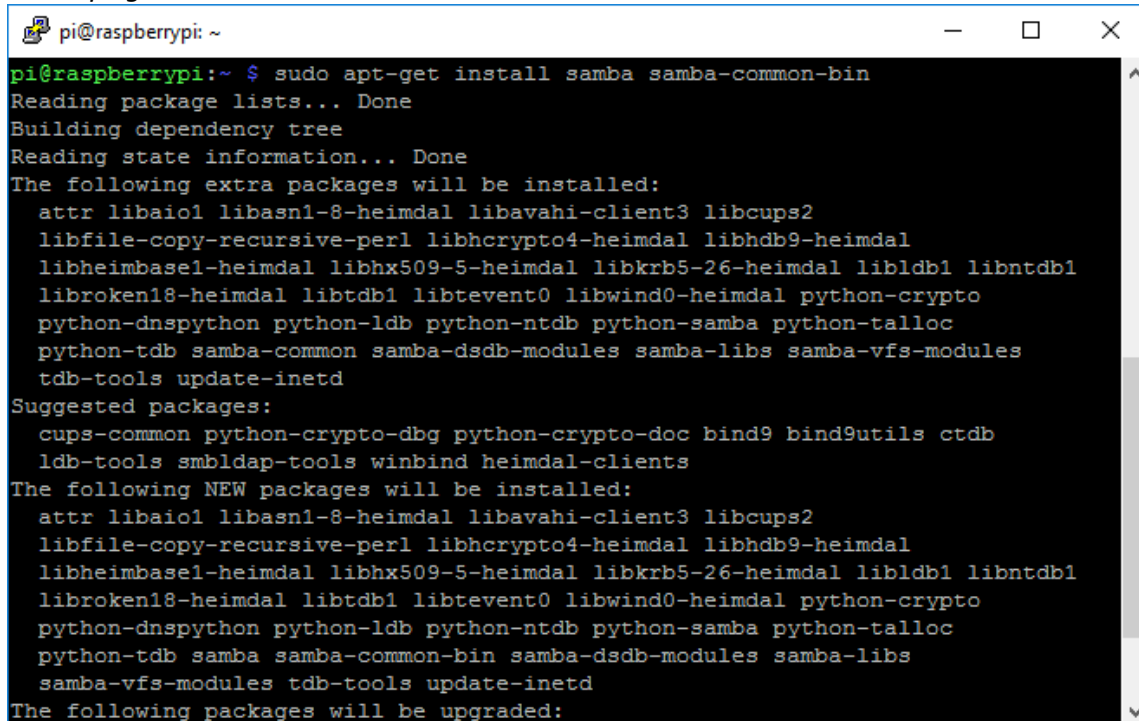
Type:

sudo apt-get update



```
pi@raspberrypi: ~  
a new password.  
  
pi@raspberrypi:~ $ sudo apt-get update  
Hit http://mirrordirector.raspbian.org jessie InRelease  
Hit http://archive.raspberrypi.org jessie InRelease  
Hit http://mirrordirector.raspbian.org jessie/main armhf Packages  
Hit http://archive.raspberrypi.org jessie/main armhf Packages  
Hit http://mirrordirector.raspbian.org jessie/contrib armhf Packages  
Hit http://mirrordirector.raspbian.org jessie/non-free armhf Packages  
Hit http://archive.raspberrypi.org jessie/ui armhf Packages  
Hit http://mirrordirector.raspbian.org jessie/rpi armhf Packages  
Ign http://archive.raspberrypi.org jessie/main Translation-en_GB  
Ign http://mirrordirector.raspbian.org jessie/contrib Translation-en_GB  
Ign http://mirrordirector.raspbian.org jessie/contrib Translation-en  
Ign http://archive.raspberrypi.org jessie/main Translation-en  
Ign http://mirrordirector.raspbian.org jessie/main Translation-en_GB  
Ign http://mirrordirector.raspbian.org jessie/main Translation-en  
Ign http://archive.raspberrypi.org jessie/ui Translation-en_GB  
Ign http://mirrordirector.raspbian.org jessie/non-free Translation-en_GB  
Ign http://mirrordirector.raspbian.org jessie/non-free Translation-en  
Ign http://archive.raspberrypi.org jessie/ui Translation-en  
Ign http://mirrordirector.raspbian.org jessie/rpi Translation-en_GB  
Ign http://mirrordirector.raspbian.org jessie/rpi Translation-en
```

sudo apt-get install samba samba-common-bin



```
pi@raspberrypi: ~  
pi@raspberrypi:~ $ sudo apt-get install samba samba-common-bin  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following extra packages will be installed:  
  attr libaio1 libasn1-8-heimdal libavahi-client3 libcups2  
  libfile-copy-recursive-perl libhcrypto4-heimdal libhdb9-heimdal  
  libheimbase1-heimdal libhx509-5-heimdal libkrb5-26-heimdal libldb1 libntdb1  
  libroken18-heimdal libtdb1 libtevent0 libwind0-heimdal python-crypto  
  python-dnspython python-ldb python-ntdb python-samba python-talloc  
  python-tdb samba-common samba-dsdb-modules samba-libs samba-vfs-modules  
  tdb-tools update-inetd  
Suggested packages:  
  cups-common python-crypto-dbg python-crypto-doc bind9 bind9utils ctdb  
  ldb-tools smbldap-tools winbind heimdal-clients  
The following NEW packages will be installed:  
  attr libaio1 libasn1-8-heimdal libavahi-client3 libcups2  
  libfile-copy-recursive-perl libhcrypto4-heimdal libhdb9-heimdal  
  libheimbase1-heimdal libhx509-5-heimdal libkrb5-26-heimdal libldb1 libntdb1  
  libroken18-heimdal libtdb1 libtevent0 libwind0-heimdal python-crypto  
  python-dnspython python-ldb python-ntdb python-samba python-talloc  
  python-tdb samba samba-common-bin samba-dsdb-modules samba-libs  
  samba-vfs-modules tdb-tools update-inetd  
The following packages will be upgraded:
```

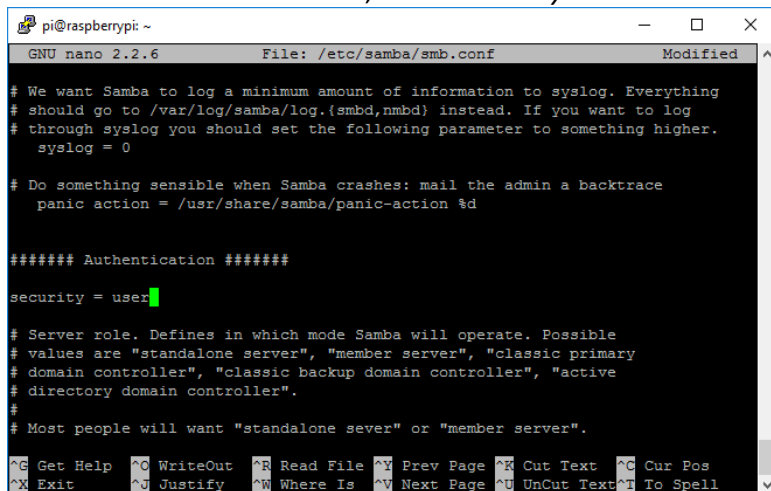
`sudo nano /etc/samba/smb.conf`

```
pi@raspberrypi: ~  
Setting up python-ldb (2:1.1.20-0+deb8u1) ...  
Setting up python-talloc (2.1.2-0+deb8u1) ...  
Setting up python-dnspython (1.12.0-1) ...  
Setting up python-ntdb (1.0-5) ...  
Setting up python-tdb (1.3.6-0+deb8u1) ...  
Setting up python-crypto (2.6.1-5+deb8u1) ...  
Setting up samba-libs:armhf (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up python-samba (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up samba-common (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up samba-common-bin (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up samba-dsdb-modules (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up tdb-tools (1.3.6-0+deb8u1) ...  
update-alternatives: using /usr/bin/tdbbackup.tdbtools to provide /usr/bin/tdbba  
ckup (tdbbackup) in auto mode  
Setting up libfile-copy-recursive-perl (0.38-1) ...  
Setting up update-inetd (4.43) ...  
Setting up samba (2:4.2.14+dfsg-0+deb8u2) ...  
Adding group `sambashare' (GID 114) ...  
Done.  
Setting up attr (1:2.4.47-2) ...  
Setting up samba-vfs-modules (2:4.2.14+dfsg-0+deb8u2) ...  
Processing triggers for libc-bin (2.19-18+deb8u6) ...  
Processing triggers for systemd (215-17+deb8u5) ...  
pi@raspberrypi:~ $ sudo nano /etc/samba/smb.conf
```

You need to set the “workgroup” (in my case I set “PIPP0”), and uncomment “wins support = yes”.

```
pi@raspberrypi: ~  
GNU nano 2.2.6 File: /etc/samba/smb.conf Modified  
#=====  
[global]  
## Browsing/Identification ###  
# Change this to the workgroup/NT-domain name your Samba server will part of  
workgroup = PIPPO  
# Windows Internet Name Serving Support Section:  
# WINS Support - Tells the NMBD component of Samba to enable its WINS Server  
wins support = yes  
# WINS Server - Tells the NMBD components of Samba to be a WINS Client  
# Note: Samba can be either a WINS Server, or a WINS Client, but NOT both  
; wins server = w.x.y.z  
# This will prevent nmbd to search for NetBIOS names through DNS.  
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos  
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

In the "Authentication" field, write "security = user".



```
pi@raspberrypi: ~
GNU nano 2.2.6 File: /etc/samba/smb.conf Modified
# We want Samba to log a minimum amount of information to syslog. Everything
# should go to /var/log/samba/log.{smbd,nmbd} instead. If you want to log
# through syslog you should set the following parameter to something higher.
syslog = 0

# Do something sensible when Samba crashes: mail the admin a backtrace
panic action = /usr/share/samba/panic-action %d

##### Authentication #####

security = user

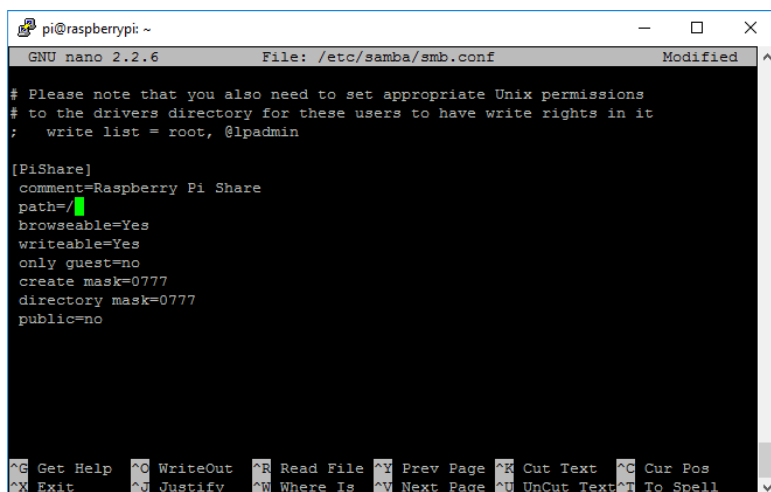
# Server role. Defines in which mode Samba will operate. Possible
# values are "standalone server", "member server", "classic primary
# domain controller", "classic backup domain controller", "active
# directory domain controller".
#
# Most people will want "standalone sever" or "member server".

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^U Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

At the end of the file, write as following.

[PiShare]

comment=Raspberry Pi Share
path=/home/pi/share
browseable=Yes
writable=Yes
only guest=no
create mask=0777
directory mask=0777
public=no



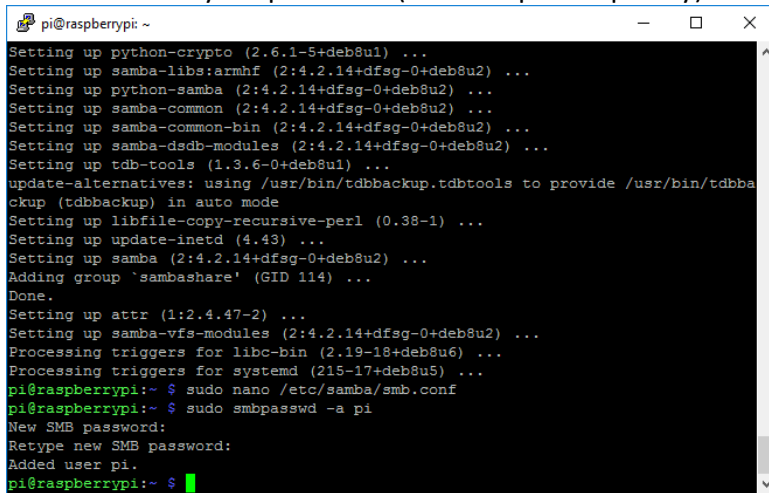
```
pi@raspberrypi: ~
GNU nano 2.2.6 File: /etc/samba/smb.conf Modified
# Please note that you also need to set appropriate Unix permissions
# to the drivers directory for these users to have write rights in it
; write list = root, @lpadmin

[PiShare]
comment=Raspberry Pi Share
path=/
browseable=Yes
writable=Yes
only guest=no
create mask=0777
directory mask=0777
public=no

^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^U Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

`sudo smbpasswd -a pi`

And then write your password (for example: raspberry).

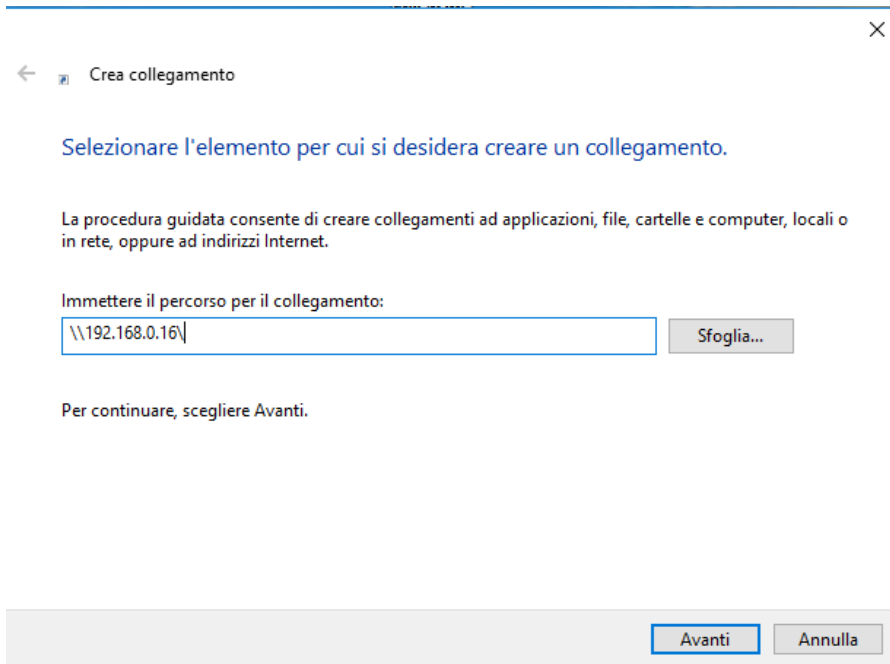


```
pi@raspberrypi: ~  
Setting up python-crypto (2.6.1-5+deb8u1) ...  
Setting up samba-libs:armhf (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up python-samba (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up samba-common (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up samba-common-bin (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up samba-dsdb-modules (2:4.2.14+dfsg-0+deb8u2) ...  
Setting up tdb-tools (1.3.6-0+deb8u1) ...  
update-alternatives: using /usr/bin/tdbbackup.tdbtools to provide /usr/bin/tdbba  
ckup (tdbbackup) in auto mode  
Setting up libfile-copy-recursive-perl (0.38-1) ...  
Setting up update-inetd (4.43) ...  
Setting up samba (2:4.2.14+dfsg-0+deb8u2) ...  
Adding group 'sambashare' (GID 114) ...  
Done.  
Setting up attr (1:2.4.47-2) ...  
Setting up samba-vfs-modules (2:4.2.14+dfsg-0+deb8u2) ...  
Processing triggers for libc-bin (2.19-18+deb8u6) ...  
Processing triggers for systemd (215-17+deb8u5) ...  
pi@raspberrypi:~$ sudo nano /etc/samba/smb.conf  
pi@raspberrypi:~$ sudo smbpasswd -a pi  
New SMB password:  
Retype new SMB password:  
Added user pi.  
pi@raspberrypi:~$
```

Restart Samba:

`sudo /etc/init.d/samba restart`

On Windows side, add a new shortcut, and input the IP address of your Raspberry Pi.



Then click on the icon (right side) and the folder will open as below.
The first time, Windows will ask you the username (“*pi*”) and password (for example: “*raspberry*”).

