Sysax Multi Server: Setting up public key authentication

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Public key authentication is supported for **SSH** based protocols such as **SFTP** or **secure shell** and enables client software to authenticate using a private key instead of a password. The basic concept is that the client generates a public and private key pair. The client then provides the public key to the system administrator who maintains the server. This public key is then installed in the client user's account. Once installed, the client can authenticate to the server and login to their account using just their private key instead of having to supply a password.

Many software programs can be used to generate the public and private key pair. This document demonstrates the generation of the key pair using the **puttygen** program.

1. Open the puttygen.exe program and click on the generate button to generate the public and private key pair.

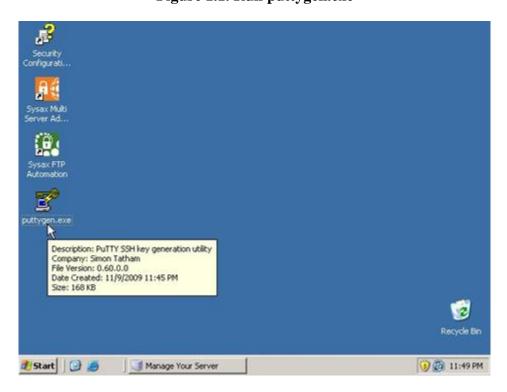


Figure 1.1. Run puttygen.exe

Figure 1.2. PuTTY Key Generator



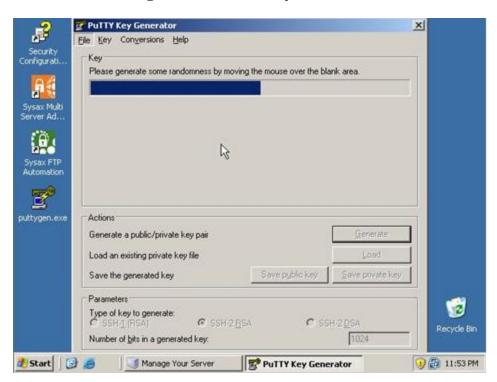
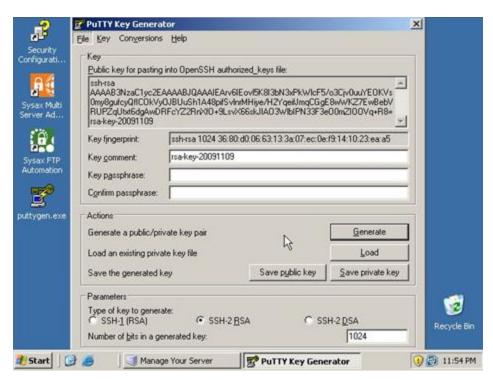


Figure 1.3. PuTTY Key Generator

2. The public key that is displayed on the program window should be copied to a text file and saved. The private key must then be saved and imported into the client program that will connect to the server. There are 3 formats that the private key can be stored in. You can click on the "Save private key" button and save it in the default ppk format. You can also select "Conversions->Export OpenSSH key" to save it in the openssh format or select "Conversions->Export ssh.com key" to save it in the ssh format.

Figure 1.4. PuTTY Key Generator



PuTTY Key Generator X Elle Key Conversions Help Security Configuration Public key for pasting into OpenSSH authorized_keys file: sshrisa

AAAAB3NzaCTyc2EAAAABJQAAAIEArv6IEovf5K8I3bN3vPkWlcF5/o3Cjv0ui/YE0KV

Omy8gufcyQfICOkVyQJBUuSh1A48pifSvlntMHiye/H2YqeiIJmqCGgE8wWKZ7EwBeb/
RUPZqJUtx66gAw0RFc/yZ2Rn/90+9LsvX66skJIA03wIbJPN33F3e00m2I00/
ssa key-20091109 Sysax Multi Server Ad... Key fingerprint: ssh-rsa 1024 36:80:d0:06:63:13:3a:07:ec:0e:f9:14:10:2 Сору rsa-key-20091109 Key comment: Sysax FTP Automation Key passphrase: Confirm passphrase: puttygen.exe Actions Generate a public/private key pair Generate Load an existing private key file Load Save public key Save the generated key Save private key Parameters 3 8 1

€ SSH-2 BSA

C SSH-2 DSA

PuTTY Key Generator

1024

11:59 PM

Type of key to generate: SSH-1 (RSA)

Start 3

Number of bits in a generated key:

Manage Your Server

Figure 1.5. PuTTY Key Generator

Figure 1.6. Paste Contents

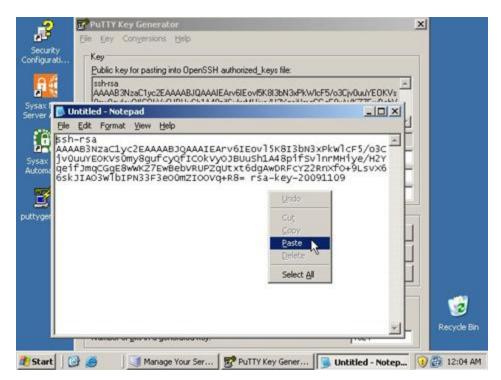




Figure 1.7. Save Text Document

3. The public key file is then installed in the client user's account. This will enable the client software to login to the account without a password, using only the private key that corresponds to the public key that is installed on the server.

Connections ca local accounts, Sysax Account Manage Sysax user accounts ODBC database Add Delete Change pass C Disable account after 11/10/2009 ☐ Disable account C Use Databa C Use LDAP A Login test ☐ Set dom Home path Crivmput ☐ Use SSL Pub key auth(59H) Criputkey.txt C Use window Login message (displayed to incoming connections) Create Syst MULTI SERVER C Use window F Try logg C Try logg Max connections 10 C Log into Timeout (secs) 300 Permissions for accessible paths (automatically applies to subfolders) ₩ Write File permissions Create Folder permissions ☐ Delete Always DESABLE the following protocols for this account (B) 25 12:23 AM Sysax Multi Server co...

Figure 1.8. Sysax Account Manager Window