

	<i>Client:</i> Public Distribution	Demonstration Commands
	<i>Project:</i> Access Linux from Windows	
	<i>Issue:</i> 01	
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1 Syntax

Angle brackets <...> represent place holders. Omit the angle brackets, e.g.

```
mv <oldname> to <newname>
```

might be typed as

```
mv MarchAgenda.txt to AprilAgenda.txt
```

Square brackets [...] represent optional arguments

The commands used have many options and variations. Generally the only option is shows is a non-standard port for the server (standard is port 22).

2 WinSCP

This is to independently monitor what is happening on the server

Start WinSCP

Log into server

3 Linux

Start Linux

3.1 Local demonstration

Folder listing

```
dir -l
```

Move a file

```
mv <oldname> to <newfolder>\
```

Rename a file

```
mv <oldname> to <newname>
```

3.2 Remote demonstration

Folder listing

```
ssh [-p<port>] <serveruser>@<serverurl> dir -l
```

Copy a file

```
rsync [-e "ssh -p <port>"] <filename> <serveruser>@<serverurl>:
```

Note the colon after the server details. Use a double colon if server is running an rsync daemon.

Rename a file

```
ssh [-p<port>] <serveruser>@<serverurl> mv <oldname> to <newname>
```

4 Delphi program

Build command lines for Shell Execute as follows

Copy a file

```
rsync.exe [-e "ssh -p <port>"] -a --no-r "<filename>" <serveruser>@<serverurl>:
```

Rename a file

```
ssh.exe [-p <port>] <serveruser>@<serverurl> mv <source> to <destination>
```

5 To create key

On Windows client

Login as user who will be running the program that will use rsync and ssh.

Run

```
ssh-keygen.exe
```

(cwrsrc distributable). It is interactive.

Accept all defaults.

It will create a file

```
C:\Users\<username>\.ssh\id_rsa.pub
```

On 'nix server

Use WinSCP or other means to append id_rsa.pub created in Windows to file

```
root\.ssh\authorized_keys
```

The following two commands will copy and append, but will prompt for passwords

```
rsync.exe -a --no-r [-e "ssh -p <port>"]
```

```
/cygdrive/c/users/<username>/.ssh/id_rsa.pub <serveruser>@<serverurl>:~/.ssh/
```

```
ssh [-p <port>] <serveruser>@<serverurl> "cat ~/.ssh/id_rsa.pub >>
```

```
~/.ssh/authorized_keys"
```

Update history

01	17-Mar-2013	Simon Hooper	Original
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