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%Net.SSH????SSH(????)????????????????
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%Net.SSH.Session??SSH????????????????
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1. ???????
2. ??Connect()????????????
3. ??AuthenticateWithKeyPair()?AuthenticateWithUsername()????????
4. ??%Net.SSH.Session????????????????SCP(????)????????????TCP????SFTP???

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????SFTP????SFTP????????????????SFTP???%Net.SSH.SFTP???
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```
Method SFTPSDir(ftpserver, username, password) As %Status
{
    set ssh = ##class(%Net.SSH.Session).%New()
    do ssh.Connect(ftpserver)
    do ssh.AuthenticateWithUsername(username,password)
    //open an SFTP session and get that returned by reference
    do ssh.OpenSFTP(.sftp)
    //get a list of files
    do sftp.Dir(".",.files)
    set i=$ORDER(files(""))
    while i="" {
        write $listget(files(i),1),!
        set i=$ORDER(files(i))
    }
    quit $$$OK
}
```

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```

/// Demonstrates the execution of a remote command (by default, uname -a).
ClassMethod TestExecute(host As %String, username As %String, password As %String, co
mmand As %String = "uname -a", pTimeout As %Integer = -1) As %Status
{
    Set s = ##class(%Net.SSH.Session).%New()
    Set sc = s.Connect(host)
    Quit:$$$ISERR(sc) sc
    If pTimeout'=-1 {
        Set sc = s.SetTimeout(pTimeout)
        Quit:$$$ISERR(sc) sc
    }
    Set sc = s.AuthenticateWithUsername(username,password)
    Quit:$$$ISERR(sc) sc
    Set sc = s.Execute(command,.tDevice)
    Quit:$$$ISERR(sc) sc

    Set $ZT="Trap"
    For {
        Use tDevice
        Read X
        Use $P
        If X'[$C(13) {
            For i=1:1:$L(X,$C(10)) Write $P(X,$C(10),i),!
        } Else {
            Write X
        }
    }
}
Exit
    Use $P
    Close tDevice
    Quit sc
Trap
    Set sc = $$S($ZE["<READ>":$$$OK,1:$$$ERROR($$$CacheError,$ZE))
    Goto Exit
}

```

```

/// Demonstrates the use of port forwarding to whatismyipaddress.com via the remote S
SH server.
ClassMethod TestForwardPort(host As %String, username As %String, password As %String
, remotehost As %String = "whatismyipaddress.com", remoteport As %Integer = 80) As %S
tatus
{
    Set s = ##class(%Net.SSH.Session).%New()
    Set sc = s.Connect(host)
    Quit:$$$ISERR(sc) sc
    Set sc = s.AuthenticateWithUsername(username,password)
    Quit:$$$ISERR(sc) sc
    Set sc = s.ForwardPort(remotehost,remoteport,.tDevice)
    Quit:$$$ISERR(sc) sc

    Set $ZT="Trap"

    Use tDevice
    Write "GET / HTTP/1.0"_$C(13,10,13,10)
    Write *-3 // Flush

    // Now the response
    For {

```

```
    Use tDevice
    Read X
    Use $P
    If X'[$C(13) {
        For i=1:1:$L(X,$C(10)) Write $P(X,$C(10),i),!
    } Else {
        Write X
    }
}
Exit
    Use $P
    Close tDevice
    Quit sc
Trap
    Set sc = $S($ZE["<READ>":$$$OK,1:$$$ERROR($$$CacheError,$ZE))
    Goto Exit
}
```

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? **URL:** <https://cn.community.intersystems.com/post/%E7%AC%AC%E5%8D%81%E4%B8%89%E7%AB%A0-%E4%BD%BF%E7%94%A8ssh>