

## OpenSSH

Because SSH is incredible.

### Tunneling

```
# Using connect-proxy as a socks proxy (tunneling ssh over http proxy to an
ssh server on port 1.2.3.4:443)
Host 1.2.3.4
  ProxyCommand connect-proxy -H proxy:3128 %h %p
  Port 443
  User shaun

# -W can be used for raw port-forwarding on OpenSSH 5.4 and higher
Host internal.server
  HostName internal.server.com
  User shaun
  ProxyCommand ssh shaun@intermediary.server.com -W %h:%p

# Here's the old way, with netcat
Host internal.server
  HostName internal.server.com
  User shaun
  ProxyCommand ssh shaun@intermediary.server.com nc %h %p

# New to OpenSSH 7.3 and higher is the ProxyJump command, which does the
same, but with multiple possible intermediaries
Host internal.server
  HostName internal.server.com
  ProxyJump shaun@intermediary1.server:22,shaun@intermediary2.server:22
  User shaun
```

### Copy and install public key

```
ssh-copy-id -i .ssh/id_rsa.pub user@server.com
```

## Filesystems

[xfs](#)  
[ext4 recovery](#)

### Get detailed memory chip information

```
dmidecode --type 17
```

Sample output:

```
# dmidecode 2.12
SMBIOS 2.7 present.

Handle 0x003B, DMI type 17, 34 bytes
Memory Device
    Array Handle: 0x002C
    Error Information Handle: Not Provided
    Total Width: 72 bits
    Data Width: 64 bits
    Size: 32 GB
    Form Factor: DIMM
    Set: None
    Locator: D0
    Bank Locator: /SYS/MB/P0
    Type: DDR3
    Type Detail: Synchronous
    Speed: 1066 MHz
    Manufacturer: Samsung
    Serial Number: 366112E5
    Asset Tag:
    Part Number: M393B4G70BM0-YH9
    Rank: 1
    Configured Clock Speed: 1066 MHz
```

## OpenSSL

### Convert .crt to .pem

```
openssl x509 -in certificate.crt -out certificate.pem -outform PEM
```

From:  
<https://wiki.dewberry.co.za/> - Shaun's Wiki

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Last update: **2019/09/16 16:09**

