

IP Addresses and Ports - Server Connection Basics

IPv4

32-bit address

4.3 billion addresses

192.168.1.100

IPv6

128-bit address

Future-proof

2001:0db8::1

Public IP

Internet-facing address, globally unique

Private IP

Internal network (192.168.x.x, 10.x.x.x)

Common Ports (0-65535)

22

SSH

80

HTTP

443

HTTPS

ML Server Connection

```
ssh user@192.168.1.100 -p 22
```

Port Forwarding

Firewall

Security

Access remote Jupyter: localhost:8888
→ server:8888

Controls port accessibility from outside

Use non-standard ports, close unused ports