- > MITM attack
- > Host: stdlinux.cse.ohio-state.edu
- > Protocol: SSHv2
- > Victim IP: 10.0.2.4
- > Gateway IP: 10.0.2.2
- > Python 2.7.14
- > Libraries: scapy, pycryptodome, sshpubkey

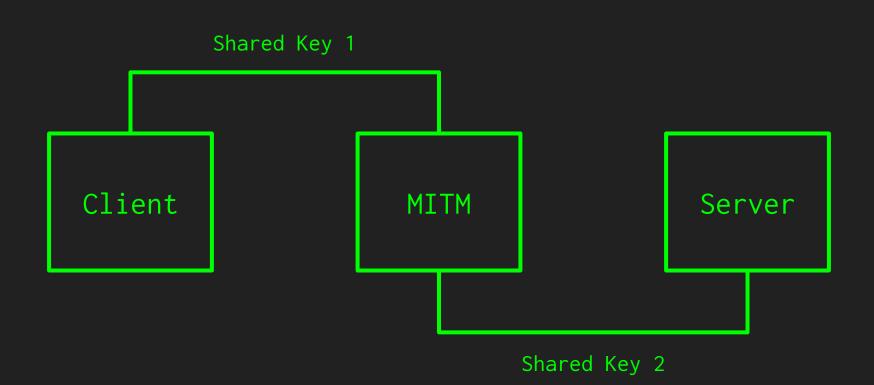
- > diffie-hellman-group-exchange-sha256
- > Client --> SSH version --> Server
- > Client <-- SSH version <-- Server
- > Client --> Algorithms --> Server
- > Client <-- Algorithms <-- Server</pre>
- > ssh-rsa (signature)
- > aes128-ctr (encryption)
- > umac-64@openssh.com (mac)

```
> Client --> min, n, max --> Server
> Client <-- p, g <-- Server
> Client --> e --> Server
> Client <-- server public key, f, signature <-- Server
> signature = RSA( server_private_key, HASH )
```

shared_key)

> HASH = SHA256(client_ssh_ver | server_ssh_ver | client_algs |

server_algs | server_public_key | min | n | max | p | g | e | f |



- > mitm.py
- > ARP poisoning
- > sniffer.py
- > Capture, modify, and forward packets