Server Security Essentials

Protecting a Lone Network from the Wild, Great Wide Open

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Opening the Floodgates

- Sheltered and protected behind your router
- Port forwarding
- Firewall
 - Router blocks most things

Bandits At The Door

- Starts the moment of exposure
- SSH Brute Forcing
- nmap examples

Protecting your Lonely Network

PASSWORD

- NEVER NEVER NEVER USE A DEFAULT OR OBVIOUSLY WEAK PASSWORD
- Ports
 - Non-default: obfuscation at best
 - Allow access only to the services you need
- Web Server
 - Require index files

Protecting your Lonely Network Cont

- SSH
 - Botnet ssh brute forcing
 - root login, dictionary attack
 - Command line remote access
 - Disallow root login
 - o fail2ban
 - Observes logs and blocks connections using iptables
 - Configuration file
 - Visual ECDSA Fingerprint
 - Hash of server public key
 - Client side setting