

NETWORK REQUIREMENTS FOR HACKATION

RASPBERRY PI INBOUND NEEDS

USERS NEED TO BE ABLE TO ACCESS PI ON PORT 22/TCP FOR FILE TRANSFER AND SHELL ACCESS

USERS NEED TO BE ABLE TO ACCESS PI ON PORT 5900/TCP FOR VNC/RDP LIKE ACCESS FOR DESKTOP CONTROL

RASPBERRY PI OUTBOUND NEEDS

THE PI NEEDS TO BE ABLE TO COMMUNICATE ON MQTT PORTS TO AZURE IOT HUB ON PORTS 443/TCP, 5671/TCP and 8883/TCP

FALLBACK OUTBOUND NEEDS (EXCLUDING PI)

THE USER DESKTOP NEEDS TO BE ABLE TO COMMUNICATE ON MQTT PORTS TO AZURE IOT HUB ON PORTS 443/TCP, 5671/TCP and 8883/TCP (MAY BE ABLE TO USE PROXY TO WORK AROUND DIRECT ACCESS ISSUES)

OUTBOUND FROM PI

Raspberry Pi needs to be able to communicate with Azure on MQTT related Ports 443/tcp, 5671/tcp and 8883/tcp

Ports 443/tcp, 5671/tcp and 8883/tcp

INBOUND TO PI

Users need to be able to communicate with the Raspberry Pi via SSH (22/tcp) for console and file transfer and port 5900/tcp (if possible) for VNC/RDP like access

Port 22/tcp and Port 5900/tcp

FALLBACK SOLUTION!

User desktop connected to the LAN needs to communicate with Azure on MQTT related Ports 443/tcp, 5671/tcp and 8883/tcp (Unclear if Microsoft tools will communicate directly over these ports or via proxy)

