### **Windows Defender Firewall: Allow Rules for Two Local Apps**

Audience: IT administrators managing Windows Defender Firewall on a domain-joined workstation. Purpose: enable inbound TCP access over LAN for two internal web apps hosted on the same machine.

### **Summary**

- Create inbound allow rules for each app's port (Domain/Private profiles). Example ports: 8050 and 8060.
- Optionally scope by program path to the app launcher or python.exe.
- Confirm listeners and verify rule hit using Test-NetConnection and netstat.

# 1) Identify host and ports

- Host: the workstation's IPv4 address on the LAN (example: 172.16.1.155).
- App A (Estimator): TCP 8050.
- App B (Second App): TCP 8060.

## 2) Create inbound allow rules (ports)

- 1. Open Windows Defender Firewall with Advanced Security
- 2. Inbound Rules → New Rule... → **Port** → TCP → Specific local ports: 8050 → **Allow** → Profiles: **Domain** and **Private** → Name: "Sign Estimation App (TCP 8050)"
- 3. Repeat for 8060: Name: "Sign Estimation App B (TCP 8060)"

### 3) Optional program scoping (advanced)

Instead of a port-based rule, use a Program rule and point to the launcher or python.exe used to run the app. This can reduce surface area but may require updates when paths change.

#### 4) Verification

- Ensure the apps are listening on their ports (the launcher can show this). From another LAN host:
- Test-NetConnection 172.16.1.155 -Port 8050
- Test-NetConnection 172.16.1.155 -Port 8060
- Expect TcpTestSucceeded: True when rules and listeners are in place.

## 5) Change management

- Rules apply only to Domain and Private profiles. Not exposed on Public.
- If ports or executables change, update the rules accordingly.

#### Appendix: netsh alternative

netsh advfirewall firewall add rule name="Sign Estimation App (TCP 8050)" dir=in action=allow protocol=TCP localport=8050 profile=domain,private netsh advfirewall firewall add rule name="Sign Estimation App B (TCP 8060)" dir=in action=allow protocol=TCP localport=8060 profile=domain,private

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