

## **Firewall Core + WFP Monitor**

Unified Documentation

### **Overview**

Firewall Core is a defensive Windows Firewall and WFP monitoring framework designed to detect, log, and optionally enforce outbound network behavior using a phased escalation model (A–C4).

### **Directory Layout**

C:\Firewall\  
- Install-Firewall.ps1  
- Uninstall-Firewall.ps1  
- firewall-install.cmd  
- uninstall-firewall.cmd  
- install-debug.log  
- README.md  
- Monitor\  
- Modules\  
- Maintenance\  
- Scripts\  
- State\  
- Tests\  
- Logs\

### **Installer**

The installer copies payload files, enables WFP auditing, applies firewall rules, registers scheduled tasks, and initializes state files. A CMD wrapper is provided for elevation and logging.

### **CMD Wrappers**

firewall-install.cmd launches Install-Firewall.ps1 as Administrator and captures output to install-debug.log. uninstall-firewall.cmd performs the inverse cleanup.

### **WFP Monitor Phases**

Phase A: Audit only  
Phase B: Baseline observation  
Phase C2: Temporary blocking  
Phase C3: Persistent blocking  
Phase C4: Deny-hash enforcement

### **State Files**

- baseline.json: firewall rule baseline  
- wfp.bookmark.json: last processed event  
- wfp.strikes.json: escalation counters  
- wfp.blocked.json: enforced blocks  
- wfp.denyhash.json: permanent deny list

**Event IDs**

3400 – Summary  
3401 – Alert  
3402 – Persistent block  
3404 – Deny-hash block

**Security Model**

Least privilege, SYSTEM-only enforcement, signed scripts, tamper detection, and reversible deployment.

**Uninstall (Planned)**

The uninstall process removes scheduled tasks, firewall rules, certificates, and restores defaults while preserving logs if requested.