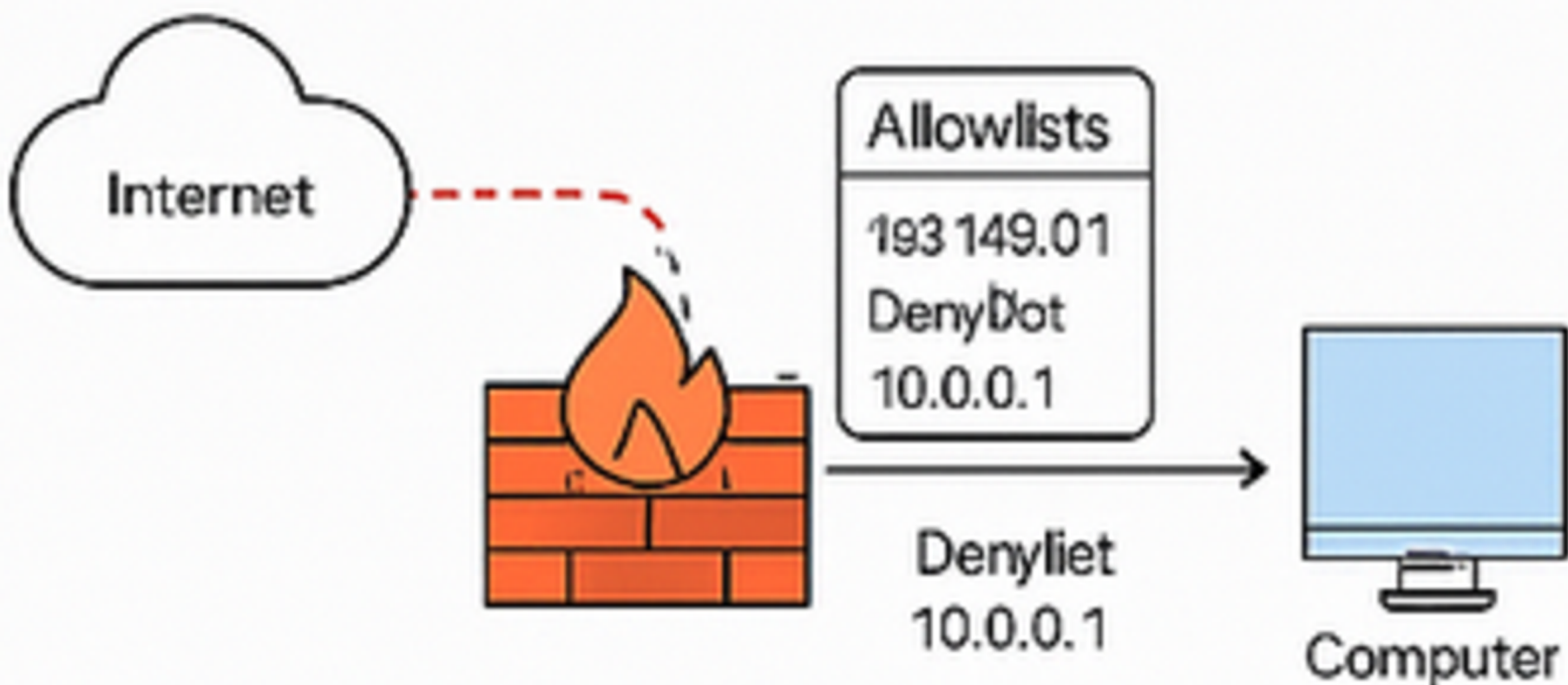


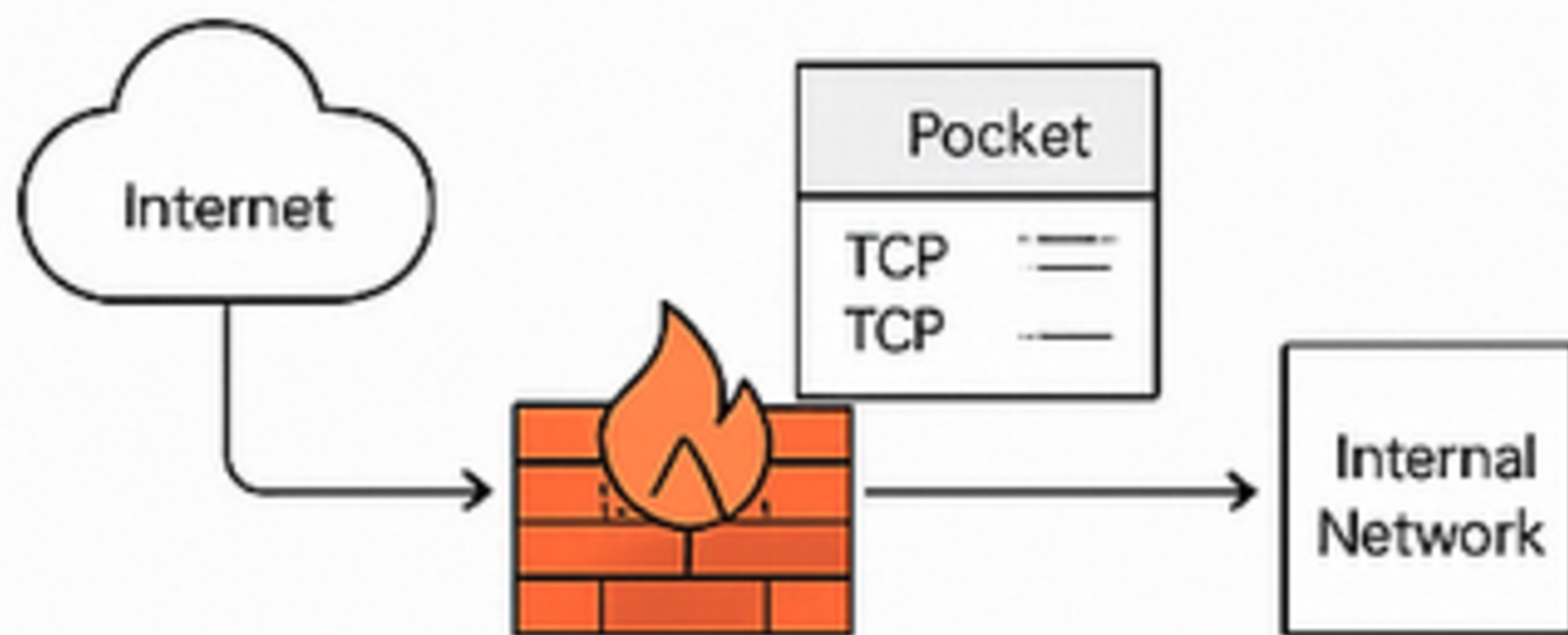
How Network Firewalls Work

Step 1: IP Address Filtering



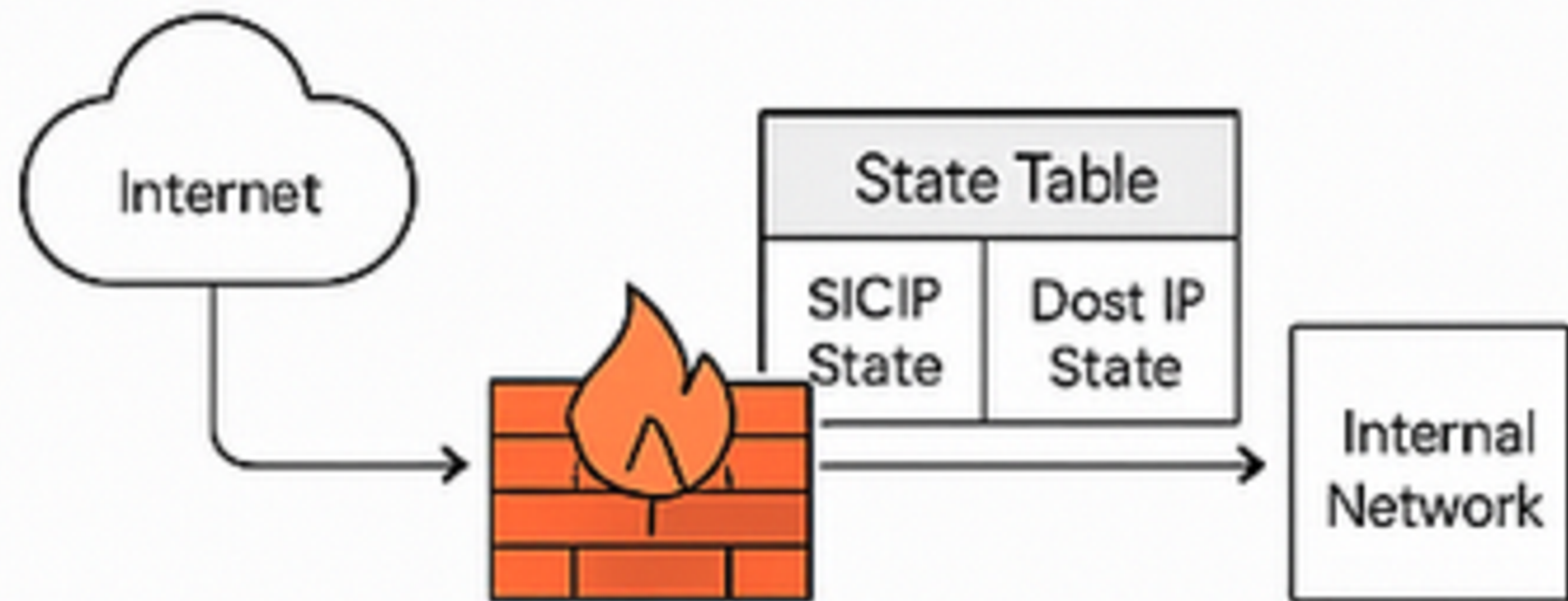
Firewall checks source & destination IP
before allowing traffic

Step 2: Packet Filtering



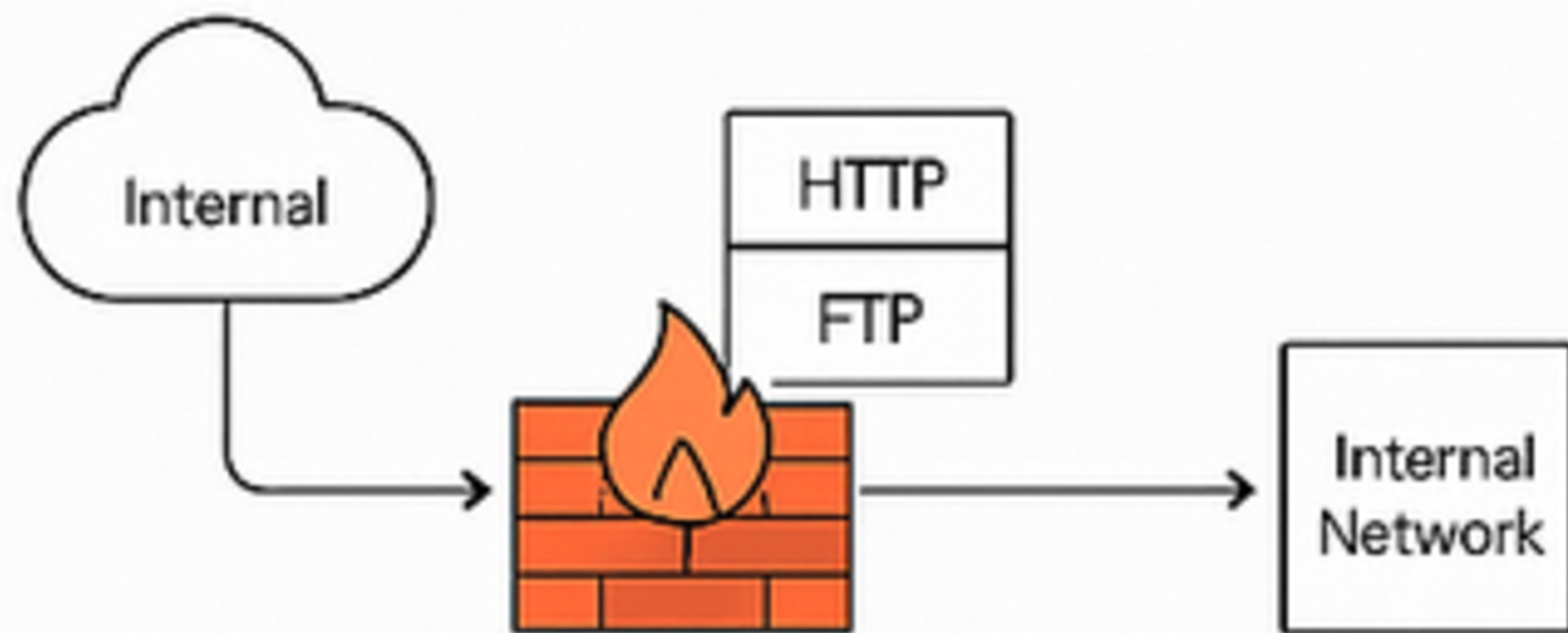
Examines headers (ports, protocols)
to permit or block traffic

Step 3: Stateful Inspection



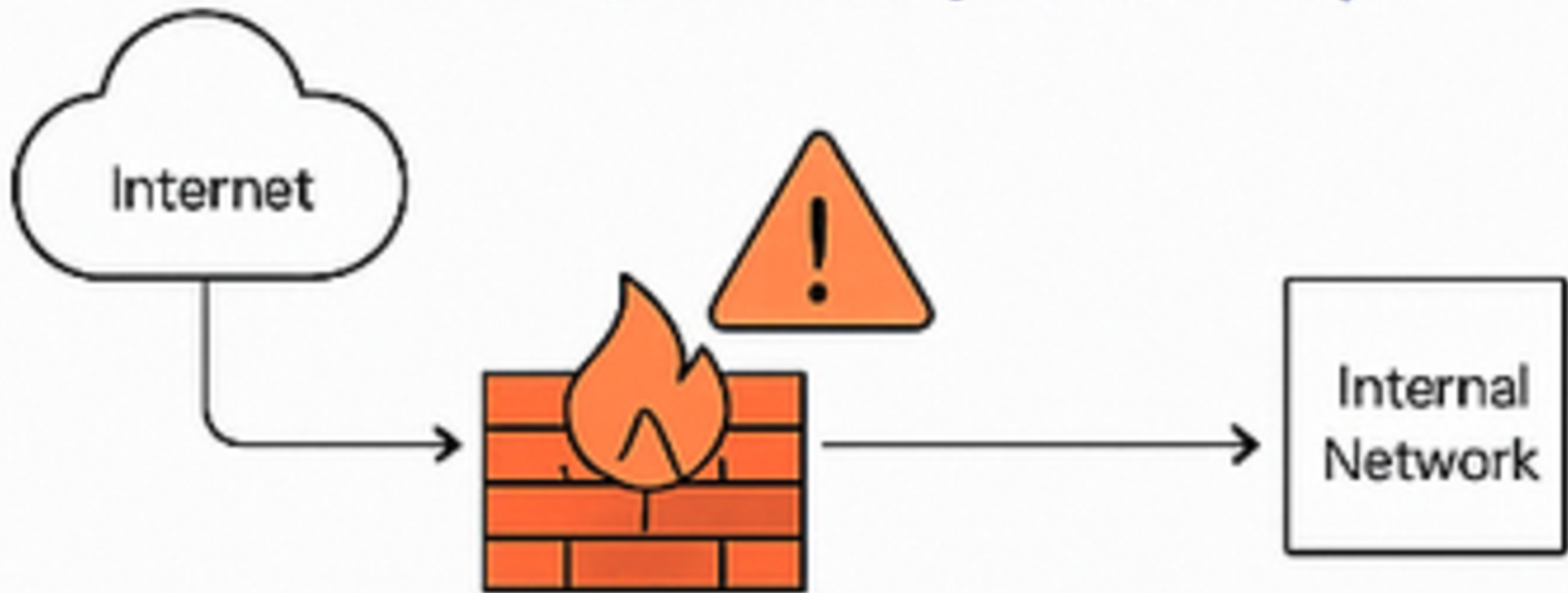
Tracks connection states for smarter filtering

Step 4: Application-Layer Filtering



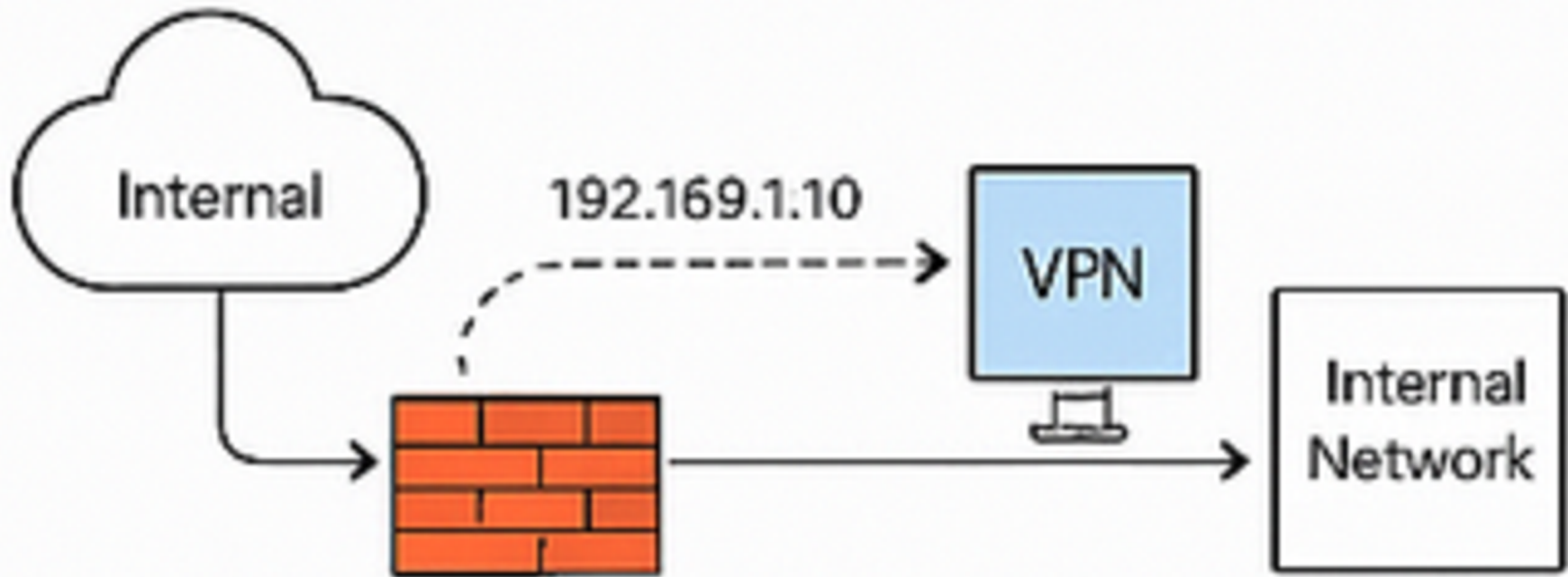
Inspects content to block/allow
apps or protocols

Step 5: Intrusion Detection & Prevention (IDS/IPS)



Detects threats in real-time and blocks malicious traffic

Step 6: NAT & VPN Support



Hides internal IPs and enables secure remote access