

ZERO-DOWNTIME COMMAND CENTER

GPU: 8/8 | 728 MH/s | 68°C | uptime: 94D 16H

ZERO-DOWNTIME



The Technical Manual for Maximum GPU Uptime in the Inference Era



INTRODUCTION – Why Uptime = Profit

The Reality of the Inference Era In traditional Bitcoin mining, a 10-minute crash was a minor inconvenience. In the world of AI Compute and GPU Farming, a 10-minute crash is a breach of contract.

When you rent your hardware to networks like io.net or Akash, you aren't just selling electricity; you are selling reliability. These platforms use "Uptime Scores" to determine which providers get the highest-paying jobs. If your rig is unstable, your score drops, your "Tier" is downgraded, and your revenue vanishes.

STEP 1

Auto-restart after power loss

Ensure your hardware automatically turns back on after a power failure.

STEP 2

```
1 EXAMPLE MINER RESTART SCRIPT
2
3 #/($MinerActive = $false
4
5 # Check miner status every 5 minutes
6 If ($MinerActive -eq $false)
7 {
8     ...Restart-Service Mine_Client...
9 }
10
11 # Check configuration
12 #($MinerActive
```

A sample watchdog script in PowerShell. Save this text as `watchdog.ps1`.

STEP 3

THE HIDDEN COST OF DOWNTIME

PROFIT LOSS

AUTO-REBOOT [ENABLED]

Reboot on: LA > 25.0, 5 min

REBOOT

A miner rig in downtime incurs significant, often overlooked, profit losses from missed mining rewards, energy consumption without return, and increased hardware. The watchdog, by enabling auto-reboot, helps to avoid this. (This explanation is based on the logic: downtime = loss).

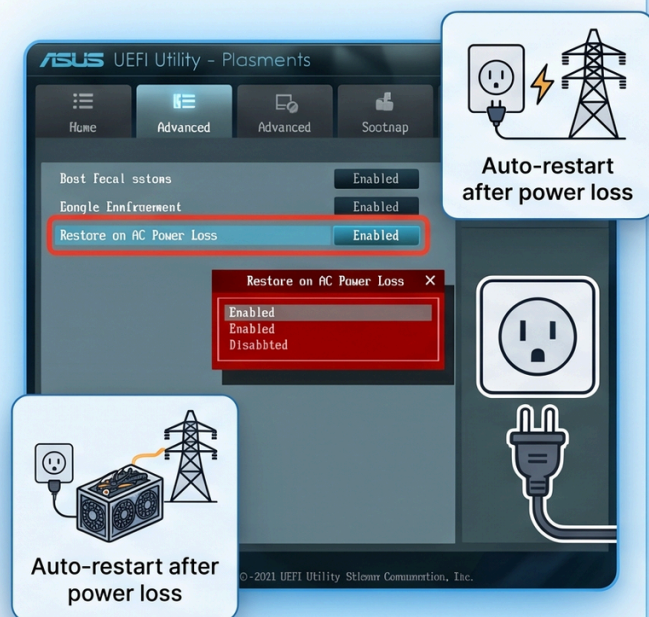
The Hidden Cost of Downtime:

- **Slashed Earnings:** Many AI networks penalize your daily rewards if your worker node drops below 95–98% uptime.
- **Missed Contracts:** High-value LLM training jobs require consistent availability. If you're offline when a job goes live, you lose it to someone else.
- **The "Vicious Cycle":** Unstable rigs lead to lower scores, which lead to lower-paying jobs, which eventually makes your electricity bill higher than your profit.

Your Goal: The 99.9% Target This manual is designed to move you away from the "hobbyist" mindset of manual reboots. By the end of this guide, your rig will be a self-healing machine that monitors its own health, reboots itself after crashes, and stays online while you sleep.

Remember: In 2026, the most profitable miner isn't the one with the most GPUs—it's the one who stays online the longest.

STEP 1



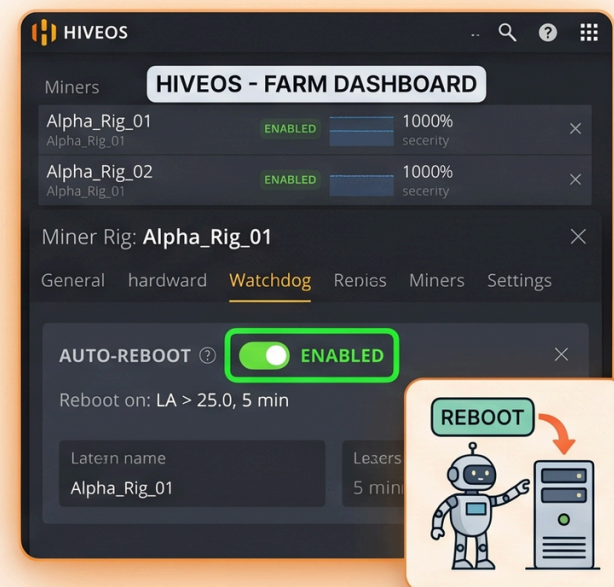
Ensure your hardware automatically turns back on after a power failure.

STEP 2

```
C:\Windows\system32\powershell - Notepad++
File Edit Search View Encoding Language Settings Help Run Window ? X
watchdog.ps1
1 EXAMPLE MINER RESTART SCRIPT
2
3 %/($MinerActive = $false
4
5 # Check miner status every 5 minutes
6 If ($MinerActive -eq $false)
7 {
8   ...Restart-Service Miner_Client...
9 }
10
11 # Check configuration
12 #($MinerActive
```

A sample watchdog script in PowerShell. Save this text as `watchdog.ps1`.

STEP 3



Activate the Auto-Reboot feature in HiveOS watchdog configuration.

Phase 1: The "Auto-Start" BIOS Configuration

Software cannot fix a machine that won't turn on. Use these settings to ensure your hardware recovers from power flickers or crashes without human intervention.

Setting Name Recommended Value Why it Matters

Restore on AC Power Loss Power On (or "Always On") Restarts the PC automatically as soon as electricity returns.

Primary Video Output PCIE / PEG Forces the motherboard to ignore internal graphics, saving CPU/System resources.

Above 4G Decoding Enabled Essential for multi-GPU setups to communicate with the OS correctly.

PCIe Link Speed Gen 3 (or Gen 2) Increases stability and reduces "Socket Errors" in older mining riser setups.

Fast Boot Disabled Allows the motherboard more time to "handshake" with GPUs during a cold boot.

Phase 2: The Windows "Self-Healing" Watchdog Script

If you are running your AI Compute on Windows, you need a script that checks if your worker is alive and reboots if it isn't.

How to use: Copy the text below into Notepad, save it as watchdog.bat, and place it in your "Startup" folder.

Code snippet

```
@echo off
:loop
tasklist /FI "IMAGENAME eq ionet-worker.exe" 2>NUL | find /I /N
    "ionet-worker.exe">NUL
    if "%ERRORLEVEL%"=="0" (
        echo [OK] Worker is running. Checking again in 5 minutes.
    ) else (
echo [CRITICAL] Worker crashed! Restarting system in 30 seconds...
        shutdown /r /t 30
    )
    timeout /t 300
    goto loop
```

(Note: Replace `ionet-worker.exe` with the specific process name for Akash or the network you are currently running.)



Phase 3: Remote Management Stack

You shouldn't have to be in the same room (or country) as your rig to fix it.

Mobile Monitoring: Install the HiveOS or Awesome Miner mobile app.

Smart Plugs: Use a high-wattage (15A/16A) Smart Plug (like Kasa or Shelly).

Pro-Tip: If the software Watchdog fails, you can "Hard Reset" the rig by toggling the Smart Plug off and on from your phone.

Telegram/Discord Bots: Enable "Status Notifications" in your worker portal settings to get a push notification the second your worker goes offline.



THE FINAL CHECKLIST & NEXT STEPS

The "Always-On" Audit Run through this list every time you add a new GPU or update your system software to ensure your profitability remains protected.

BIOS Check: Is "Restore on AC Power Loss" set to Power On?

Windows Audit: Are auto-updates disabled and "Sleep Mode" set to Never?

Script Test: Does your watchdog.bat successfully launch on system startup?

Thermal Safety: Is your fan curve aggressive enough to keep the core below 70°C?

Remote Link: Can you see your rig's status on your phone right now?

STAY AHEAD OF THE PIVOT

The AI compute landscape changes every week. Hardware that is profitable today might be obsolete tomorrow. Don't navigate the Inference Era alone.

Join the Crypto Kryptonite Community: Most creators just talk about price action. We talk about **infrastructure**. If you want the latest technical guides, hardware stress tests, and real-world income reports before anyone else, you need to be part of the lab.



"In the gold rush of AI, the people who stay online the longest are the ones who win. See you in the next deep dive."

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