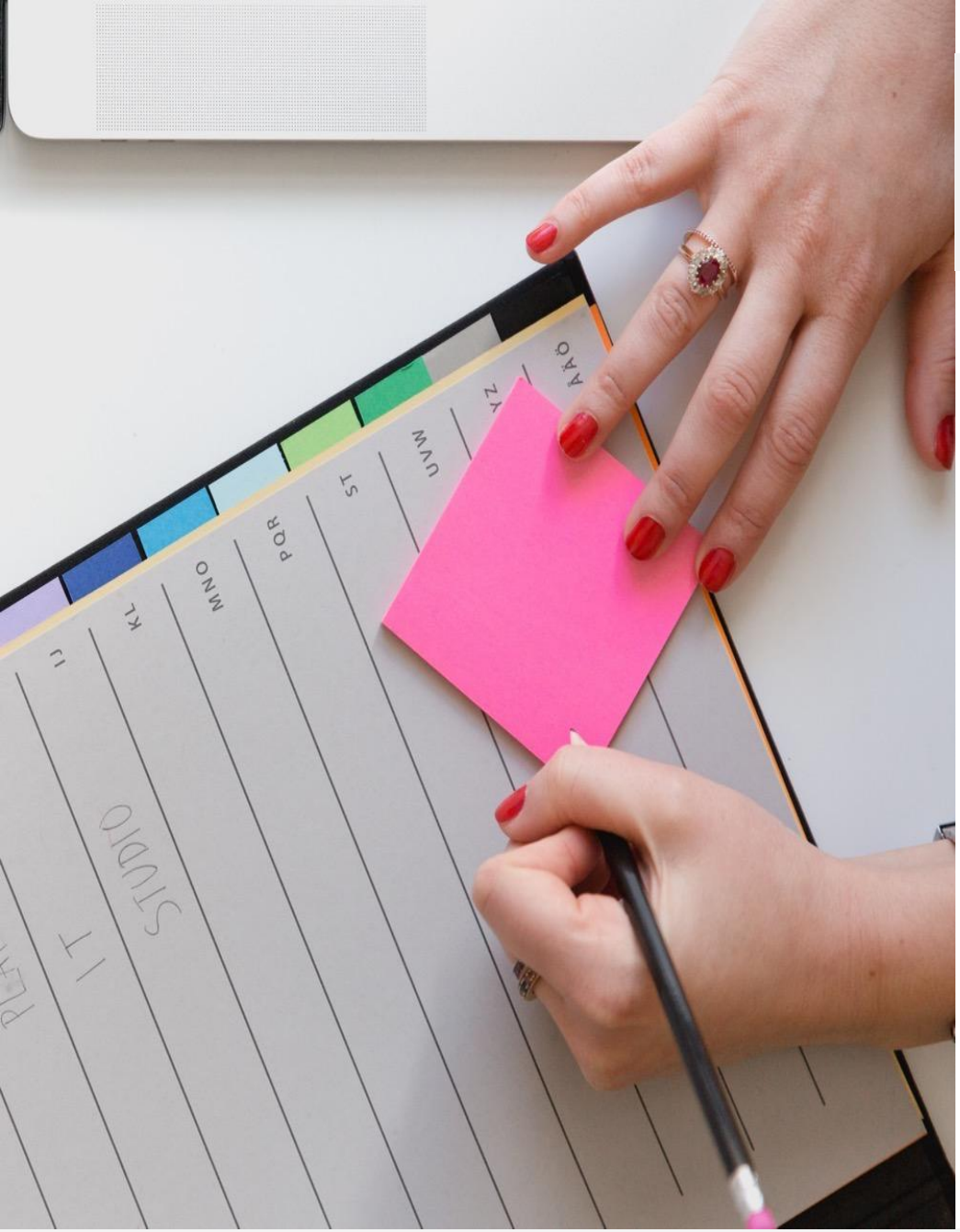
Process Explorer

Group D



Process Explorer

- Process Explorer is a powerful system monitoring and troubleshooting tool, developed by Mark Russinovich as part of the Sysinternals Suite.
- It acts as an advanced replacement for Windows Task Manager, providing in-depth details about running processes, resource usage, and system activity in real-time.

What is WHOIS

- A protocol used to query databases storing domain registration and IP allocation details.
- Acts like a public phone book for the internet.
- Provides ownership and technical information about domains and IP addresses.

Information from WHOIS

Domain registrar, registrant name, and organization.

Contact details (email, phone, address - sometimes hidden).

Domain creation, expiration, and update dates.

Nameservers used by the domain.

For IP addresses: owner organization, location, IP range, and abuse contacts.

How to Use WHOIS Tools

Command-line: whois example.com (Linux/macOS).

Online tools: ICANN WHOIS, Whois.com, DomainTools.

Integrated in security/network analysis software.

Helps in domain research, security analysis, and troubleshooting.

Key Features

- Real-time process monitoring – Track CPU, memory, GPU usage instantly.
- Tree view of processes – Shows parent–child process relationships.
- Detailed process properties – View threads, priorities, environment variables.
- DLL & handle viewing – Identify files, libraries, and resources in use
- Search capability – Find which process is using a specific file or handle.

Uses of process explorer in application packaging

- Identity background process
- Detech locked files during installation
- Check parent process of installaters
- Verify digital signature
- Monitor resource usage during installation
- Check loaded DLL's and dependencies

Task Manager vs Process Explorer

VS Task Manager vs Process Explorer

Feature	Task Manager	Process Explorer
Purpose	Basic process & performance monitoring	Advanced, detailed process analysis
Details Shown	Limited info (CPU, Memory, Disk, Network)	Very detailed (open files, registry keys, DLLs, parent/child process tree)
Process Tree	Flat list (Windows 10/11 shows limited hierarchy)	Full parent-child hierarchy view
File Handles / Registry Keys	❌ Not shown	✅ Can search and view all handles/keys a process is using
Digital Signature Verification	❌ No	✅ Yes, checks if process is verified and from trusted publisher
Process Kill Options	Kill	Kill, Kill Tree, Suspend
Portable?	Built-in to Windows	Portable app, runs without install
Best For	Everyday monitoring, ending unresponsive apps	Deep troubleshooting, malware detection, application packaging analysis

Errors in Repackager

Application Packaging

Errors in Repackager – Application Packaging

- **Common Errors:**
- Missing files or locked files
- Missing registry keys (HKCU)
- Background process interference
- Wrong snapshot timing
- Missing dependencies (.NET, Java)

Errors in Repackager – Application Packaging

Fixes:

- Always use a clean virtual machine
- Disable antivirus and Windows updates
- Take snapshot immediately after clean boot
- Install with correct user account
- Package dependencies separately.

Errors in Repackager – Application Packaging

Best Practices:

Maintain standard packaging checklist

Test MSI in different environments

Document any manual changes done post-capture

Keep version control of your ISM/MSI files

Conclusion:

Errors are common but preventable

Correct process = stable MSI output

Symon Tool Overview

Symon is a no-code data analytics platform developed by Varicent.

It is used to prepare, analyze, and visualize data quickly.

Works with drag-and-drop tools instead of coding.

Key Features

Data Preparation – Clean, filter, and organize raw data.

Data Analysis – Discover trends, patterns, and insights.

Visualization – Create professional charts and dashboards.

No Coding Required – Simple, user-friendly interface.

Benefits

Speed – Process large datasets quickly.

Quality – Create professional-grade visuals.

Intelligence – Get AI-powered insights.

Simplicity – Designed for non-technical users.