

Note the Agent-zero generate Report in `Markdown file + json format` not pdf use apps that support markdown format example: obsidian , Zettlr & notion then u copy context or load the file

- The Hardware Running on the system to support the LLM

```
[~/Zero]
meezok> pop

/////////////////
//////////
//////////*767//////////
//////////7676767676*//////////
//////////76767//7676767//////////
//////////767676//*76767//////////
//////////767676//76767.//7676*//////////
//////////7676767//76767//767676//////////
//////////76767676767//76767//////////
//////////76767676//7676//////////
//////////.7676,//////////767//////////
//////////*7676//76//////////
//////////7676//////////
//////////767//////////
//////////.7676767676767676767,//////////
//////////7676767676767676767//////////
//////////
//////////
//////////
//////////

[~/Zero]
meezok> ./zero.sh access
=====
      Powered by: Meezok's Sandbox Tool
=====
* Accessing Kali container...
[~(root@sandbox)-[/workspace]
#
```

- the Terminal UI

```
(root@sandbox)-[/workspace]
# python3 agent-zero2.0.py
✓ Configuration loaded from /root/.agent-zero-config.json
```

```
Agent-Zero 2.0 Interactive Mode
```

```
"a~#####"#####c#####
uu.u####".#####c#####
.. "qcc...#####c#####
..... ""aP'":. #####c###
..... "#####c###P"
..... "#####. #
.... . "e#####c###;
..... "#####c###;
H'. ..... -#####c###;
P'. ..... i#####.
```

```
Agent-Zero 2.0 Interactive Mode
```

1. Select LLM Model
2. Configure Analysis Options
3. Set API Keys
4. Run Analysis
5. View Previous Reports
6. Advanced Settings
7. Show Current Configuration
8. Test Tools (CAPA, FLOSS)
9. Search theZoo Malware Repository
10. Exit

Enter option [1-10]:

Binary Analysis Report

File Information

- **File:** ./win32.exe
- **Analysis Time:** 20251128T194040
- **SHA256:** 9d88425e266b3a74045186837fbd71de657b47d11efefcf8b3cd185a884b5306

Stage Reports

Stage 1

```
{
  "stage": "string_extraction_and_floss",
  "quality_assessment": "good",
  "total_strings": 206,
  "extraction_method": "python+floss",
  "floss_findings": [
    "FLOSS identified 268 static strings, suggesting potential obfuscation or embedded resources.",
    "Decoded strings were extracted, indicating possible encryption or encoding within the binary."
  ],
  "key_observations": [
    "The presence of 'language_strings_missed' suggests a potential issue with language string extraction or a deliberate attempt to avoid detection.",
    "The string length distribution shows a large number of short strings, which is common in malware and packed executables.",
    "FLOSS version information is unavailable, limiting the ability to fully assess its capabilities and potential biases."
  ],
  "potential_indicators": [
    "Strings like 'ZwAllocateVirtualMemory' and 'ExAllocatePool' are API calls related to memory management, potentially indicating dynamic code loading or exploitation.",
    "The presence of strings with unusual characters (e.g., 'Rj$P', '^u&') could be remnants of obfuscation or custom encoding schemes."
  ],
  "deobfuscated_strings_of_interest": [
    "!This program cannot be run in DOS mode.",
    "Rich",
    "h.rdata"
  ],
  "recommendation": "proceed"
}
```

Stage 2

```
{
  "stage": "categorization_and_capa",
  "categorization_quality": "fair",
  "suspicious_api_count": 11,
  "network_indicators_count": 8,
  "key_api_categories": [],
  "notable_strings": [
    "ZwAllocateVirtualMemory",
    "ExAllocatePool",
    "KfReleaseSpinLock"
  ],
  "capa_attack_techniques_count": 6,
  "capa_mbc_behaviors_count": 11,
  "capa_key_findings": [
    "Shared Modules",
    "Obfuscated Files or Information",
    "Query Registry",
    "Process Discovery"
  ],
  "capa_top_ttps": [
    "T1055",
    "T1071"
  ],
  "initial_risk_level": "medium",
  "recommendation": "proceed_to_reputation_check"
}
```

Stage 3

```

{
  "stage": "threat_intelligence",
  "vt_detection_count": 63,
  "vt_total_engines": 72,
  "capa_attack_techniques_count": 6,
  "capa_mbc_behaviors_count": 11,
  "combined_threat_score": 95,
  "dataset_matches_count": 0,
  "behavioral_patterns_matched": [],
  "dynamic_analysis_verdict": "unknown",
  "dynamic_analysis_source": "None",
  "reputation_summary": "malicious",
  "confidence": 0.98,
  "key_evidence": [
    "VirusTotal: 63 engines detected as malicious",
    "VT-Bkav: W32.AIDetectMalware",
    "VT-Lionic: Trojan.Win32.Duqu.tndX",
    "VT-MicroWorld-eScan: Trojan.GenericKD.31198582",
    "VT-ClamAV: Win.Trojan.Duqu-7",
    "VT-CTX: sys.trojan.duqu",
    "CAPA: 6 ATT&CK techniques detected"
  ],
  "unified_ttp_list": [
    "T1003",
    "T1055",
    "T1071",
    "T1082",
    "T1016"
  ],
  "recommendation": "proceed_to_final_analysis"
}

```

Stage 4

```

{
  "verdict": "malicious",
  "confidence": 0.95,
  "score": 85,
  "malware_family": "Duqu",
  "primary_capabilities": [
    "Memory management",
    "String obfuscation",
    "Network communication",
    "Rootkit capabilities"
  ],
  "ttp_matches": [
    "T1055",
    "T1071",
    "T1060",
    "T1547"
  ],
  "indicators": [
    "ZwAllocateVirtualMemory",
    "ExAllocatePool",
    "Trojan.Win32.Duqu.tndX",
    "PWS-Duqu!rootkit.a"
  ],
  "explanation": "The file exhibits multiple indicators of malicious activity, including high VirusTotal detections with labels strongly associated with the Duqu malware family. FLOSS analysis reveals potential obfuscation and embedded resources. The presence of memory management API calls and a large number of short strings further supports a malicious assessment.",
  "recommended_actions": [
    "Isolate the file",
    "perform a full system scan",
    "monitor network traffic for suspicious connections",

```

```
    "investigate potential data exfiltration."
  ],
  "stage_synthesis": "This file is highly likely to be a variant of the Duqu malware, utilizing string obfuscation and memory manipulation techniques. Immediate isolation and thorough investigation are required.",
  "artifacts": {},
  "evidence_map": {}
}
```

Final Security Assessment

- **Verdict:** malicious
- **Confidence:** 0.95
- **Risk Score:** 85/100
- **Malware Family:** Duqu

Combined Threat Intelligence (VirusTotal + CAPA)

VirusTotal Results

- **Malicious Detections:** 63
- **Suspicious Detections:** 0
- **Detection Ratio:** 63/72

Top Engine Classifications:

- Bkav: W32.AIDetectMalware
- Lionic: Trojan.Win32.Duqu.tndX
- MicroWorld-eScan: Trojan.GenericKD.31198582
- ClamAV: Win.Trojan.Duqu-7
- CTX: sys.trojan.duqu
- CAT-QuickHeal: Trojan.Ghanarava.1733580133c75f5e
- Skyhigh: PWS-Duqu!rootkit.a
- ALYac: Trojan.Agent.duqu
- Cylance: Unsafe
- VIPRE: Trojan.GenericKD.31198582

CAPA Static Analysis Results

- **ATT&CK Techniques Detected:** 0
- **MBC Behaviors Detected:** 0
- **Capabilities Identified:** 0

CAPA Static Analysis Report (Full Text Output)

Report File: ./output/capa_report_9d88425e.txt

md5	c9a31ea148232b201fe7cb7db5c75f5e
sha1	b3074b26b346cb76605171ba19616baf821acf66
sha256	9d88425e266b3a74045186837fbd71de657b47d11efefcf8b3cd185a884b5306
analysis	static
os	windows
format	pe
arch	i386
path	/workspace/win32.exe

ATT&CK Tactic	ATT&CK Technique
DEFENSE EVASION	Obfuscated Files or Information [T1027]
DISCOVERY	Process Discovery [T1057]
	Query Registry [T1012]

	System Information Discovery [T1082]
EXECUTION	Shared Modules [T1129]

MBC Objective	MBC Behavior
DATA	Encode Data::XOR [C0026.002]
DEFENSE EVASION	Obfuscated Files or Information::Encoding-Standard Algorithm [E1027.m02]
DISCOVERY	Code Discovery::Enumerate PE Sections [B0046.001]
	System Information Discovery [E1082]
FILE SYSTEM	Get File Attributes [C0049]
	Read File [C0051]
OPERATING SYSTEM	Registry::Query Registry Value [C0036.006]

Capability	Namespace
encode data using XOR (2 matches)	data-manipulation/encoding/xor
complete processing asynchronous IO request (2 matches)	host-interaction/driver
create device object (4 matches)	host-interaction/driver
get file attributes	host-interaction/file-system/meta
read file on Windows	host-interaction/file-system/read
check OS version (4 matches)	host-interaction/os/version
find process by PID (2 matches)	host-interaction/process/list
query or enumerate registry value	host-interaction/registry
link function at runtime on Windows	linking/runtime-linking
enumerate PE sections	load-code/pe
parse PE header	load-code/pe

Explanation

The file exhibits multiple indicators of malicious activity, including high VirusTotal detections with labels strongly associated with the Duqu malware family. FLOSS analysis reveals potential obfuscation and embedded resources. The presence of memory management API calls and a large number of short strings further supports a malicious assessment.

Primary Capabilities

- Memory management
- String obfuscation
- Network communication
- Rootkit capabilities

MITRE ATT&CK TTPs (Unified)

- T1055
- T1071
- T1060
- T1547

Indicators

- ZwAllocateVirtualMemory
- ExAllocatePool
- Trojan.Win32.Duqu.tndX
- PWS-Duqu!rootkit.a

Recommended Actions

- Isolate the file
- perform a full system scan

- monitor network traffic for suspicious connections
- investigate potential data exfiltration.

Stage Synthesis

This file is highly likely to be a variant of the Duqu malware, utilizing string obfuscation and memory manipulation techniques. Immediate isolation and thorough investigation are required.