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A newer version is available. For the latest information, see the current release documentation.

Elastic Docs > Elastic Security Solution [7.17] > Downloadable rule update v0.16.1

Scheduled Task Execution at Scale via GPO



Detects the modification of Group Policy Object attributes to execute a scheduled task in the objects controlled by the GPO.

Rule type: query

Rule indices:

- winlogbeat-*
- logs-system.*

Severity: medium

Risk score: 47

Runs every: 5m

Searches indices from: None (Date Math format, see also Additional look-back time)

Maximum alerts per execution: 100

References:

- https://github.com/atc-project/atcdata/blob/master/docs/Logging_Policies/LP_0025_windows_audit_directory_service_changes.md
- https://github.com/atc-project/atcdata/blob/f2bbb51ecf68e2c9f488e3c70dcdd3df51d2a46b/docs/Logging_Policies/LP_0029_windows_
- https://labs.f-secure.com/tools/sharpgpoabuse
- https://twitter.com/menasec1/status/1106899890377052160
- https://github.com/SigmaHQ/sigma/blob/master/rules/windows/builtin/win_gpo_scheduledtasks.yml

Tags:

- Elastic
- Host
- Windows
- Threat Detection
- Privilege Escalation
- · Active Directory

Version: 2

Rule authors:

Scheduled Task Execution at Scale via GPO | Elastic Security Solution [7.17] | Elastic - 31/10/2024 15:48 https://www.elastic.co/guide/en/security/7.17/prebuilt-rule-0-16-1-scheduled-task-execution-at-scale-via-gpo.html

Elastic

Rule license: Elastic License v2

Investigation guide



```
Group Policy Objects can be used by attackers to execute scheduled tasks at scale
given GPO. This is done by changing the contents of the `<GPOPath>\Machine\Preference
file.
- This attack abuses a legitimate mechanism of the Active Directory, so it is impor
is legitimate and the administrator is authorized to perform this operation.
- Retrieve the contents of the `ScheduledTasks.xml` file, and check the `<Command>
potentially malicious commands and binaries.
- If the action is suspicious for the user, check for any other activities done by
- Verify if the execution is allowed and done under change management, and if the
- Group Policy Abuse for Privilege Addition
- Startup/Logon Script added to Group Policy Object
- Immediate response should be taken to validate activity, investigate, and potent
post-compromise behavior.
The 'Audit Detailed File Share' audit policy is required be configured (Success Fa
Steps to implement the logging policy with with Advanced Audit Configuration:
Computer Configuration >
Policies >
Windows Settings >
Security Settings >
Advanced Audit Policies Configuration >
Audit Policies >
Object Access >
Audit Detailed File Share (Success, Failure)
The 'Audit Directory Service Changes' audit policy is required be configured (Succe
Steps to implement the logging policy with with Advanced Audit Configuration:
Computer Configuration >
Policies >
Windows Settings >
Security Settings >
Advanced Audit Policies Configuration >
Audit Policies >
DS Access >
Audit Directory Service Changes (Success, Failure)
```

Rule query



```
(event.code: "5136" and winlog.event_data.AttributeLDAPDisplayName:("gPCMachineExterminlog.event_data.AttributeValue:(*CAB54552-DEEA-4691-817E-ED4A4D1AFC72* and *Avor
(event.code: "5145" and winlog.event_data.ShareName: "\\\\*\\SYSVOL" and winlog.event_data.AccessList: *%4417*))
```

Framework: MITRE ATT&CKTM

- · Tactic:
 - Name: Privilege Escalation
 - ID: TA0004
 - Reference URL: https://attack.mitre.org/tactics/TA0004/
- · Technique:
 - Name: Scheduled Task/Job
 - ID: T1053
 - Reference URL: https://attack.mitre.org/techniques/T1053/
- · Sub-technique:
 - · Name: Scheduled Task
 - ID: T1053.005
 - Reference URL: https://attack.mitre.org/techniques/T1053/005/
- Technique:
 - Name: Domain Policy Modification
 - ID: T1484
 - Reference URL: https://attack.mitre.org/techniques/T1484/
- · Sub-technique:
 - Name: Group Policy Modification
 - ID: T1484.001
 - Reference URL: https://attack.mitre.org/techniques/T1484/001/

« Group Policy Abuse for Privilege Addition

Potential Privilege Escalation via InstallerFileTakeOver »

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