

Windows AppLocker

Windows AppLocker allows administrators to create rules restricting which executables, scripts, and other files users are allowed to run. For more information, see [What Is AppLocker?](#) on Microsoft Docs.

AppLocker logs events to the Windows Event Log. There are four logs available, shown in the Event Viewer under **Applications and Services Logs > Microsoft > Windows > Applocker**:

- EXE and DLL
- MSI and Script
- Packaged app-Deployment
- Packaged app-Execution

NXLog can collect these events with the [im_msvistalog](#) module or other [Windows Event Log](#) modules.

Example 1. Collecting AppLocker logs from Windows Event Log

The following configuration uses the [im_msvistalog](#) module to collect AppLocker events from the four Windows Event Log channel sources listed above. The `xm_xml/parse_xml()` procedure is used to further parse the **UserData** XML portion of the event.

nxlog.conf

```
<Extension _xml>
  Module xm_xml
</Extension>

<Input in>
  Module im_msvistalog
  <QueryXML>
    <QueryList>
      <Query Id="0">
        <Select Path="Microsoft-Windows-AppLocker" />
      </Query>
    </QueryList>
  </QueryXML>
</Input>
```

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</QueryList>

</QueryXML>

Exec if \$UserData parse_xml(\$UserData);

</Input>

Log In

Output Sample

```
{
  "EventTime": "2019-01-09T22:34:44.164099+01:00",
  "Hostname": "Host.DOMAIN.local",
  "Keywords": "9223372036854775808",
  "EventType": "ERROR",
  "SeverityValue": 4,
  "Severity": "ERROR",
  "EventID": 8004,
  "SourceName": "Microsoft-Windows-AppLocker",
  "ProviderGuid": "{CBDA4DBF-8D5D-4F69-9578-BE14AA5401...}",
  "Version": 0,
  "TaskValue": 0,
  "OpcodeValue": 0,
  "RecordNumber": 40,
  "ExecutionProcessID": 5612,
  "ExecutionThreadID": 5220,
  "Channel": "Microsoft-Windows-AppLocker/EXE and DLL",
  "Domain": "DOMAIN",
  "AccountName": "admin",
  "UserID": "S-1-5-21-314323950-2314161084-4234690932-...",
  "AccountType": "User",
  "Message": "%PROGRAMFILES%\WINDOWS NT\ACCESSORIES\...",
  "Opcode": "Info",
  "UserData": "<RuleAndFileData xmlns='http://schemas...'",
  "EventReceivedTime": "2019-01-09T22:34:45.773240+01...",
  "SourceModuleName": "in",
  "SourceModuleType": "im_msvistalog",
  "RuleAndFileData.PolicyNameLength": "3",
  "RuleAndFileData.PolicyName": "EXE",
  "RuleAndFileData.RuleId": "{4C8E638D-3DE8-4DCB-B0E4-...",
  "RuleAndFileData.RuleNameLength": "113",
  "RuleAndFileData.RuleName": "WORDPAD.EXE, in MICROSO...",
  "RuleAndFileData.RuleSddlLength": "179",
  "RuleAndFileData.RuleSddl": "D:(XD;;;FX;;;S-1-1-0;((F...",
  "RuleAndFileData.TargetUser": "S-1-5-21-314323950-23...",
  "RuleAndFileData.TargetProcessId": "7964",
  "RuleAndFileData.FilePathLength": "49",
  "RuleAndFileData.FilePath": "%PROGRAMFILES%\WINDOWS...",
  "RuleAndFileData.FileHashLength": "0",
  "RuleAndFileData.FqbnLength": "118",
  "RuleAndFileData.Fqbn": "O=MICROSOFT CORPORATION, L=...",
}
```

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