

We use optional cookies to improve your experience on our websites, such as through social media connections, and to display personalized advertising based on your online activity. If you reject optional cookies, only cookies necessary to provide you the services will be used. You may change your selection by clicking "Manage Cookies" at the bottom of the page. Privacy Statement Third-Party Cookies

Accept

Reject

Manage cookies

Microsoft Ignite

Windows App Development

Nov 19-22, 2024

Register now >

Development ∨



Q



Learn

Discover ∨

Product documentation ∨

Explore ∨

✓ Development languages ✓

Platforms ∨ Troubleshooting Resources ∨

Dashboard

Sign in

Filter by title

Event Logging

→ About Event Logging

About Event Logging

Event Types

Logging Guidelines

Event Logging Elements

Event Logging Elements

Eventlog Key

Event Sources

Event Categories

Event Identifiers

> Message Files

Event Data

Event Log Records

Event Logging Operations

- Event Logging ModelEvent Logging Security
- > Using Event Logging
- > Event Logging Reference

··· / Diagnostics / Windows Events / Event Logging /



Eventlog Key

Article • 08/19/2021 • 6 contributors

♦ Feedback

The event log contains the following standard logs as well as custom logs:

Expand table

Log	Description
Application	Contains events logged by applications. For example, a database application might record a file error. The application developer decides which events to record.
Security	Contains events such as valid and invalid logon attempts, as well as events related to resource use such as creating, opening, or deleting files or other objects. An administrator can start auditing to record events in the security log.
System	Contains events logged by system components, such as the failure of a driver or other system component to load during startup.
CustomLog	Contains events logged by applications that create a custom log. Using a custom log enables an application to control the size of the log or attach ACLs for security purposes without affecting other applications.

The event logging service uses the information stored in the **Eventlog** registry key. The **Eventlog** key contains several subkeys, called *logs*. Each log contains information that the event logging service uses to locate resources when an application writes to and reads from the event log.

The structure of the **Eventlog** key is as follows:

```
HKEY_LOCAL_MACHINE
SYSTEM
CurrentControlSet
Services
Eventlog
Application
Security
System
CustomLog
```

Note that domain controllers record events in the **Directory service** and **File Replication service** logs and DNS servers record events in the **DNS server**.

Download PDF

Each log can contain the following registry values.

Expand table

Registry value	Description
CustomSD	Restricts access to the event log. This value is of type REG_SZ. The format used is State Clear (0x0004) Read (0x0001) Write (0x0002) To be a syntactically valid SDDL, the CustomSD value must specify an owner and a For more information, see Event Logging Security. Windows Server 2003: SACLs are supported. Windows XP/2000: This value is not supported.
DisplayNameFile	This value is not used. Windows Server 2003 and Windows XP/2000: Name of the
DisplayNameID	This value is not used. Windows Server 2003 and Windows XP/2000: Message ide
File	Fully qualified path to the file where each event log is stored. This enables Event Vic If a specific file is set, make sure that the event log service has full permissions on tl This value needs to be a valid file name for a file that is located on a local directory Do not use environment variables, in the path to the file, that cannot be expanded Windows Server 2003 and Windows XP/2000: This value defaults to %SystemRoc
MaxSize	Maximum size, in bytes, of the log file. This value is of type REG_DWORD. The value
PrimaryModule	This value is not used. Windows Server 2003 and Windows XP/2000: This value is
Retention	This value is of type REG_DWORD. The default value is 0. If this value is 0, the recor
Sources	This value is not used. Windows Server 2003 and Windows XP/2000: Names of the
AutoBackupLogFiles	This value is of type REG_DWORD, and is used by the event log service to determin
RestrictGuestAccess	This value is not used. Windows XP/2000: This value is of type REG_DWORD, and
Isolation	Defines the default access permissions for the log. This value is of type REG_SZ. You • Application • System • Custom The default isolation is Application. The default permissions for Application are (sh
	L"0:BAG:SYD:" L"(A;;0xf0007;;;SY)"
	The default permissions for System are (shown using SDDL):
	L"0:BAG:SYD:" L"(A;;0xf0007;;;SY)"
	The default permissions for Custom isolation is the same as Application. Windows Server 2003 and Windows XP/2000: This value is not available.

Each log also contains event sources. For more information, see Event Sources.

Feedback

Provide product feedback ☑ | Get help at Microsoft Q&A

Additional resources

M Training

Module

Manage and monitor Windows Server event logs - Training

Learn how Event Viewer provides a convenient and accessible location for you to observe events that occur. Access event information quickly and conveniently. Learn how to interpret the data in the event log.

Events

Nov 20, 12 AM - Nov 22, 12 AM

Gain the competitive edge you need with powerful AI and Cloud solutions by attending Microsoft Ignite online.

Register now

© English (United States)✓ Your Privacy Choices
★ Theme ✓
Manage cookies Previous Versions Blog ☑ Contribute Privacy ☑ Terms of Use Trademarks ☑ © Microsoft 2024