

RANDY FRANKLIN SMITH's
ULTIMATE WINDOWS SECURITY

Exploring the SharePoint Audit Log

☐ Sponsored by:

LOGbinder SP

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

☐ Brought to you by

LOGbinder SP

www.logbinder.com

© 2009 Monterey
Technology Group Inc.

Preview of Key Points

- ☐ Does SharePoint have an audit log?
- ☐ Which versions/editions?
- ☐ How do you enable auditing?
- ☐ What events/activity does it allow you to audit?
- ☐ Where is the log stored?
- ☐ How do you view the log?
- ☐ What's wrong with the SharePoint audit log?

© 2009 Monterey
Technology Group Inc.

Does SharePoint have an audit log?

☐ Yes

© 2009 Monterey
Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
IOE binder SP

Which versions/editions?

- ☐ Version
 - 3.0 / 2007
- ☐ Editions
 - Windows SharePoint Services 3.0
 - Office SharePoint Server 2007 for Search
 - Office Forms Server 2007
 - Office SharePoint Server 2007 Standard
 - Office SharePoint Server 2007 Enterprise
 - Office SharePoint Server 2007 for Internet Sites

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
IOE binder SP

How do you enable auditing?

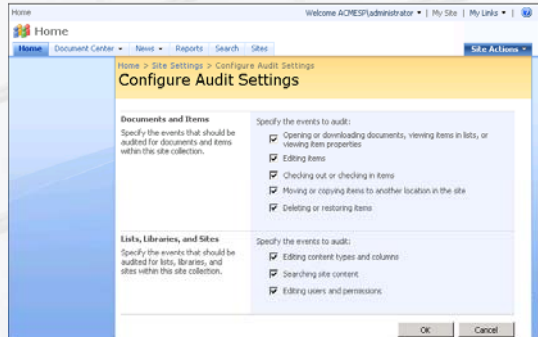
- ☐ Windows SharePoint Services
 - No interface or command line utility
 - Script the SharePoint object model

© 2009 Monterey Technology Group Inc.

How do you enable auditing?

☐ Office SharePoint Services

- Site Collection Administration \ Site collection audit settings



© 2009 Monterey
Technology Group Inc.

Where is the log stored?

☐ SharePoint content database in SQL Server

- “audit event entries ... are stored with all other content such as list items, documents...” - TechNet
- Tables in SharePoint content SQL database

☐ Not designed for direct access

© 2009 Monterey
Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
IOE binder SP

How do you view the log?

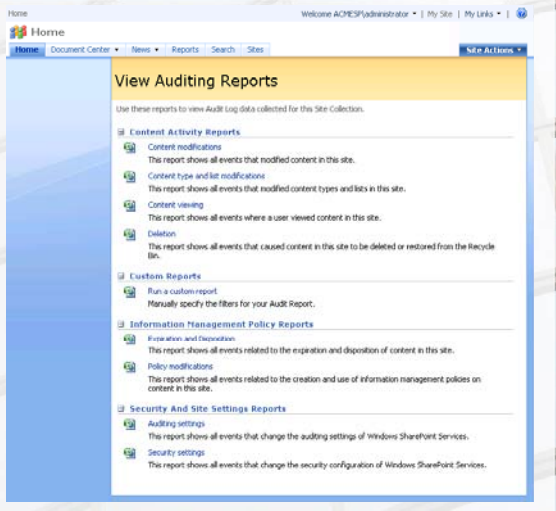
- ❑ Windows SharePoint Services
 - No interface or command line utility
 - Script the SharePoint object model

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
IOE binder SP

How do you view the log?

- ❑ Office SharePoint Server
 - Handful of rudimentary Excel reports
 - Cryptic
 - Essentially broken



© 2009 Monterey Technology Group Inc.

What do reports look like?

Content Modification

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Site ID	Item ID	Item Type	User ID	Machine N	Machine P	Document Location	T	Occurred (GMT)	Event	Custom E	Event S	Source Na	Event Data			
2	3b7602c-f56b4c98	Document	SHAREPC				Lists/WorkURL		2009-01-04T01:09:45	Update		SharePon					
3	3b7602c-f2945d76	Document	SHAREPC				Lists/WorkURL		2009-01-04T01:10:46	Update		SharePon					
4	3b7602c-f6b6643a	List	ACMESPA				Lists/LinksURL		2008-12-22T23:41:11	Update		SharePon		4_000			
5	3b7602c-f4a3950a	Document	ACMESPA				EHM Libra URL		2008-12-29T14:58:49	Update		SharePon					
6	3b7602c-fd04c393	Item	ACMESPA				Cache Pro URL		2009-05-11T10:17:44	Update		SharePon					
7	3b7602c-fd04c393	Item	ACMESPA				Cache Pro URL		2009-05-29T19:30:42	Copy		Object Mo		http://spdevdocLib/Copies/Files.txt			
8	3b7602c-f9a7050a	Document	ACMESPA				EHM Libra URL		2008-12-22T23:34:19	Update		SharePon					
9	3b7602c-f9a7050a	Document	ACMESPA				EHM Libra URL		2008-12-25T00:48:32	Update		SharePon					
10	3b7602c-fca794b6	Folder	ACMESPA				Docs/PagesURL		2008-12-22T12:09:04	Update		SharePon		<Version><Major>2<Minor>0<Minor><Version>			
11	3b7602c-f39794b75	List	SHAREPC				Lists/Task URL		2008-12-29T14:46:42	Update		SharePon		1_000			
12	3b7602c-f39794b75	List	SHAREPC				Lists/Task URL		2008-12-29T14:46:42	Update		SharePon		2_000			
13	3b7602c-f39794b75	List	SHAREPC				Lists/Task URL		2009-01-04T01:09:45	Update		SharePon		3_000			
14	3b7602c-f39794b75	List	SHAREPC				Lists/Task URL		2009-01-04T01:10:29	Update		SharePon		4_000			
15	3b7602c-f39794b75	List	SHAREPC				Lists/Task URL		2009-01-04T01:12:00	Update		SharePon		5_000			
16	3b7602c-f39794b75	List	SHAREPC				Lists/Task URL		2009-01-04T01:12:41	Update		SharePon		6_000			
17	3b7602c-fca39029	Item	SHAREPC				Long RunnURL		2009-01-04T00:56:59	Update		SharePon					
18	3b7602c-fca39029	Item	SHAREPC				Long RunnURL		2009-01-04T00:56:59	Update		SharePon					
19	3b7602c-fca39029	Document	SHAREPC				Long RunnURL		2009-01-04T00:57:01	Update		SharePon					
20	3b7602c-fca39029	Item	SHAREPC				Long RunnURL		2009-01-04T00:57:05	Update		SharePon					
21	3b7602c-fca39029	Item	SHAREPC				Long RunnURL		2009-01-04T00:57:06	Update		SharePon					
22	3b7602c-fca39029	Item	SHAREPC				Long RunnURL		2009-01-04T00:57:06	Update		SharePon					
23	3b7602c-fca39029	Item	SHAREPC				Long RunnURL		2009-01-04T00:57:06	Update		SharePon					
24	3b7602c-f6b1a465	Folder	ACMESPA				DocumentURL		2009-01-04T00:35:51	Update		SharePon		<Version><Major>1<Minor>0<Minor><Version>			
25	3b7602c-f54599a1	Document	ACMESPA				EHM Libra URL		2009-01-04T00:57:06	Update		SharePon					
26	3b7602c-f7a4727b9	Document	SHAREPC				Lists/WorkURL		2009-01-04T01:12:41	Update		SharePon					
27	3b7602c-fb61a7bc	Document	SHAREPC				Long RunnURL		2009-05-11T10:24:55	Update		SharePon					
28	3b7602c-fb61a7bc	Item	SHAREPC				Long RunnURL		2009-05-11T10:24:55	Update		SharePon					
29	3b7602c-fb61a7bc	Item	SHAREPC				Long RunnURL		2009-05-11T10:24:55	Update		SharePon					
30	3b7602c-f39040b75	Document	SHAREPC				Lists/WorkURL		2009-01-04T01:12:00	Update		SharePon					
31	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2008-12-22T12:17:50	Restore		SharePon					
32	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:23:37	Check Out		SharePon		<Version><Major>1<Minor>0<Minor><Version>			
33	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:24:03	Update		SharePon		<Version><Major>2<Minor>0<Minor><Version>			
34	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:24:03	Move		SharePon		<NewName>FinancialReports/AuditLogEport 20081122			
35	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:24:30	Check In		SharePon		<Version><Major>2<Minor>0<Minor><Version>			

© 2009 Monterey
Technology Group Inc.

What do reports look like?

Security Settings

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Site ID	Item ID	Item Type	User ID	Machine N	Machine P	Document Location	T	Occurred (GMT)	Event	Custom E	Event S	Source Na	Event Data					
2	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2008-12-22T17:50	Restore		SharePon							
3	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:23:37	Check Out		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
4	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:24:03	Update		SharePon		<Version><Major>2<Minor>0<Minor><Version>					
5	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:24:03	Move		SharePon		<NewName>FinancialReports/AuditLogEport 20081122					
6	3b7602c-f4013a726	Document	ACMESPA				FinancialURL		2009-05-07T14:24:30	Check In		SharePon		<Version><Major>2<Minor>0<Minor><Version>					
7	3b7602c-f56bd07c	List	ACMESPA				FinancialURL		2008-12-22T23:33:26	Update		SharePon		Items.txt					
8	3b7602c-f56bd07c	List	ACMESPA				FinancialURL		2008-12-22T23:34:19	Child Delet		SharePon		<Relationship><id>E7C79C05-9B55-412B-BE2E-815A84C0DAE4</id>					
9	3b7602c-f56bd07c	List	ACMESPA				FinancialURL		2009-02-09T23:44:43	Update		SharePon		3Q 2009 Financial Report.xls					
10	3b7602c-f56bd07c	List	ACMESPA				FinancialURL		2009-02-09T23:44:43	Child Delet		SharePon		<Relationship><id>71A6B565-8E39-4AC2-A25A-F2F56E320F3</id>					
11	3b7602c-f56bd07c	List	ACMESPA				FinancialURL		2009-05-04T15:52:00	Child Move		SharePon		<Relationship><id>4C81A4D2-43E4-40F8-95A1-E8B79F70DCC</id>					
12	3b7602c-f56bd07c	List	ACMESPA				FinancialURL		2009-05-07T14:24:03	Child Move		SharePon		<Relationship><id>4F13E726-7121-425E-8E7B-370CE5FAA1C</id>					
13	3b7602c-f5934a6a	Document	ACMESPA				FinancialURL		2009-07-20T16:50:59	Check Out		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
14	3b7602c-f5934a6a	Document	ACMESPA				FinancialURL		2009-07-20T16:51:13	Update		SharePon		<Version><Major>2<Minor>0<Minor><Version>					
15	3b7602c-f5934a6a	Document	ACMESPA				FinancialURL		2009-07-20T16:51:29	Check In		SharePon		<Version><Major>2<Minor>0<Minor><Version>					
16	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2008-12-22T23:33:26	Update		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
17	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2008-12-22T23:34:19	Child Delet		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
18	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2008-12-22T23:34:19	Child Delet		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
19	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2008-12-22T23:34:19	Child Delet		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
20	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2008-12-22T23:34:19	Child Delet		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
21	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2009-05-04T15:52:00	Move		SharePon		<NewName>FinancialReports/This is a sample document.docx</NewName>					
22	3b7602c-f47c7905	Document	ACMESPA				FinancialURL		2009-07-20T16:40:52	Check In		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
23	3b7602c-f71a6b5a	Document	ACMESPA				FinancialURL		2009-02-09T23:44:43	Update		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
24	3b7602c-f71a6b5a	Document	ACMESPA				FinancialURL		2009-02-09T23:45:12	Update		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
25	3b7602c-f71a6b5a	Document	ACMESPA				FinancialURL		2009-02-09T23:45:13	Check In		SharePon		<Version><Major>1<Minor>0<Minor><Version>					
26	3b7602c-f71a6b5a	Document	ACMESPA				FinancialURL		2009-02-09T23:53:23	Delete		SharePon		<Version><AllVersions></Version><Recycle>1</Recycle>					

© 2009 Monterey
Technology Group Inc.

What do reports look like?

Custom Report

Run a custom report - Customize

Manually specify the filters for your Audit Report.

Location
Specify whether this report should be restricted to a particular list in the Site Collection.

Date Range
Specify a start date and/or end date that this report should be restricted to. If you specify only a start date, the report will include all events that occur after that date. If you specify only an end date, the report will include all events that occur before that date.

Users
Specify which user the report should be restricted to.

Events
Specify whether this report should be restricted to particular events. If no event filters are specified, the report will include all events matching the other restrictions.

☐ Restrict this report to:
Link:
List:

Start Date:
End Date:

Users:

☐ Opening or downloading documents, viewing items in lists, or viewing item properties
☐ Editing items
☐ Checking out or checking in items
☐ Moving or copying items to another location in the site
☐ Deleting or restoring items
☐ Editing content types and columns
☐ Searching site content
☐ Editing users and permissions
☐ Editing auditing settings and deleting audit log events
☐ Workflow events
☐ Custom events

OK Cancel

© 2009 Monterey
Technology Group Inc.

What do reports look like?

Custom Report

Line #	Item ID	Item Type	Item ID	Machine Name	Document Location	Document (URL)	Event	Custom Event	Event Date	Event Data
1	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Restore	SharePoint	<Version>=Major1<Major>=Minor0<Minor>=Version
2	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	<Version>=Major2<Major>=Minor0<Minor>=Version
3	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	<Name>=FinancialURLLogUpdated:20081122 withName
4	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Move	SharePoint	<Version>=Major2<Major>=Minor0<Minor>=Version
5	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
6	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
7	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
8	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
9	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
10	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
11	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
12	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
13	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
14	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
15	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
16	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
17	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
18	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
19	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
20	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
21	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
22	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
23	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
24	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Update	SharePoint	
25	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check Out	SharePoint	
26	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Check In	SharePoint	
27	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Delete	SharePoint	<Version>=Major1<Major>=Minor0<Minor>=Version
28	367820	File	367820	Document	ACME/SP	Financial URL	2009-02-27 12:17:50	Delete	SharePoint	<Version>=Major1<Major>=Minor0<Minor>=Version

© 2009 Monterey
Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
IOE binder SP

How do you configure alerts?

☐ No support

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
IOE binder SP

Can you direct the audit log to your log management application?

☐ No, the SharePoint audit log is trapped in the SharePoint content database

© 2009 Monterey Technology Group Inc.

What's wrong with the SharePoint audit log?

1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are **unreadable**
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey
Technology Group Inc.

☐ Problems solved by

LOGbinder SP

www.logbinder.com

© 2009 Monterey
Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

LOGbinder SP solves SharePoint Audit Problems

1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are **unreadable**
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP


LOGbinder SP solves SharePoint Audit Problems

1. **Solved** Stored in content DB, no way to collect to central, secure log archive
2. Reports are **unreadable**
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

LOGbinder SP solves SharePoint Audit Problems




1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are unreadable
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

LOGbinder SP solves SharePoint Audit Problems




1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are unreadable
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

LOGbinder SP solves SharePoint Audit Problems




1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are unreadable
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

LOGbinder SP solves SharePoint Audit Problems



1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are unreadable
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

LOGbinder SP solves SharePoint Audit Problems

1. Stored in content DB, no way to collect to central, secure log archive
2. Reports are unreadable
3. No alerting
4. No way to enable auditing in WSS
5. No way to access log in WSS
6. No scheduled pruning

© 2009 Monterey Technology Group Inc.

ULTIMATE
WINDOWS
SECURITY.COM
LOGbinder SP

Want to Learn More?

- ☐ Download LOGbinder SP
- ☐ Visit

www.LOGbinder.com

© 2009 Monterey Technology Group Inc.