Security management solutions
To support your IT objectives

Tivoli. software

Learn how 10 reports can help you address the most pressing database auditing challenges.

When making a list of your enterprise's most vital assets, your database would surely land near the top of the list — that is where all the most critical information resides. But do you know what activities are taking place within your database?

IBM Tivoli® Compliance Insight Manager provides critical tools for monitoring and reporting on database activities, in order to support information security within your enterprise. Included within Tivoli Compliance Insight Manager are the 10 most critical reports that should be generated around database activity. They help you uncover and investigate security incidents and data breaches, as well as meet audit requirements.

Even if it isn't practical to deny users access to the database, monitoring database activities is paramount — because both accidental and malicious violations can be very damaging to your organization and threaten information integrity. The Tivoli Compliance Insight Manager reporting engine for audit and compliance initiatives could be your most valuable asset in controlling database security.

When it comes to database security, organizations like yours face considerable pressure on two fronts. On one hand, demands are great for you to guarantee internal security, while minimizing the chances of downtime caused by the accidental or malicious actions of database users.

On the other hand, it's equally important to comply with ever-growing regulations and meet auditor requirements. Today, auditors expect to see the same level of sophistication in security and audit controls on the database management system (DBMS) that they routinely encounter for operating systems, network security devices, authentication servers and other elements of an IT infrastructure.

Reduce security incidents and eliminate the "compliance gap"

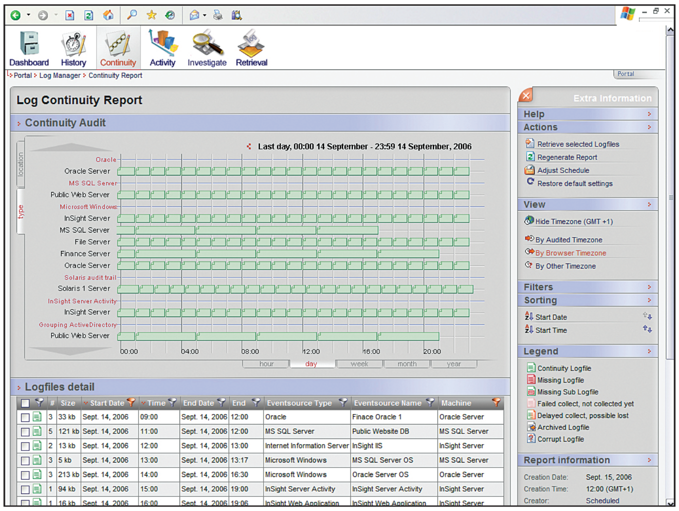
It's apparent that proper monitoring and reporting on the activity of database administrators (DBAs) and other users across your enterprise is paramount in creating database security and meeting auditor requirements. Tivoli Compliance Insight Manager includes multiple capabilities for meeting both these objectives, including:

- **Automating the collection of data about both privileged and nonprivileged database access.**
- **Centralizing the collected data in a secure data store.**
- **Normalizing database logs into a single, platform-neutral language that is understandable by all concerned parties.**
- **Allowing privileged users to perform essential job duties by unobtrusively monitoring and auditing their behavior.**
- **Improving the effectiveness of internal security controls by providing an understanding of variances between access control policies and actual user behavior.**
- **Allowing you to answer auditor questions about how you manage the activity of DBAs and other privileged users on databases across your enterprise.**

Take advantage of depth in database monitoring

The depth IBM offers when it comes to database monitoring is exemplified by Tivoli Compliance Insight Manager support for IBM DB2® on z/OS® and IBM DB2 Universal Database,™ IBM Informix® Dynamic Server, Oracle Database, Microsoft® SQL and Sybase ASE. Tivoli Compliance Insight Manager integrates database auditing into your enterprise compliance efforts by providing a single framework for monitoring across multiple platforms, including databases, operating systems, applications, and security and network devices.

Turn the page to see how the top 10 reports in Tivoli Compliance Insight Manager for database auditing enable you to take advantage of this versatility.



Log Continuity Report

Continuity Audit

Last day, 00:00 14 September - 23:59 14 September, 2006

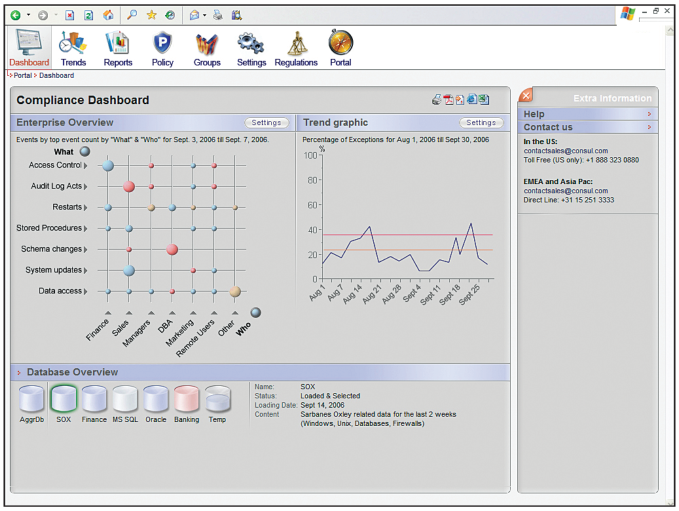
Logfiles detail

☐	#	Size	Start Date	Time	End Date	End	Eventsource Type	Eventsource Name	Machine
☐	3	33 kb	Sept. 14, 2006	09:00	Sept. 14, 2006	12:00	Oracle	Finace Oracle 1	Oracle Server
☐	5	121 kb	Sept. 14, 2006	11:00	Sept. 14, 2006	12:00	MS SQL Server	Public Website DB	MS SQL Server
☐	2	13 kb	Sept. 14, 2006	12:00	Sept. 14, 2006	13:00	Internet Information Server	InSight IIS	InSight Server
☐	3	5 kb	Sept. 14, 2006	13:00	Sept. 14, 2006	13:17	Microsoft Windows	MS SQL Server OS	MS SQL Server
☐	3	213 kb	Sept. 14, 2006	14:00	Sept. 14, 2006	16:30	Microsoft Windows	Oracle Server OS	Oracle Server
☐	1	94 kb	Sept. 14, 2006	15:00	Sept. 14, 2006	19:00	InSight Server Activity	InSight Server Activity	InSight Server
☐	1	16 kb	Sept. 14, 2006	16:00	Sept. 14, 2006	19:06	InSight Web Application	InSight Web Application	InSight Server

Report information

Creation Date:	Sept. 15, 2006
Creation Time:	12:00 (GMT+1)
Creator:	Scheduled

The log continuity report can help make visits from the auditor short and painless, because it can help prove that you are collecting logs.



Compliance Dashboard

Enterprise Overview

Events by top event count by "What" & "Who" for Sept. 3, 2006 till Sept. 7, 2006.

Trend graphic

Percentage of Exceptions for Aug 1, 2006 till Sept 30, 2006

Database Overview

Name:	SOX
Status:	Loaded & Selected
Loading Date:	Sept 14, 2006
Content	Sarbanes Oxley related data for the last 2 weeks (Windows, Unix, Databases, Firewalls)

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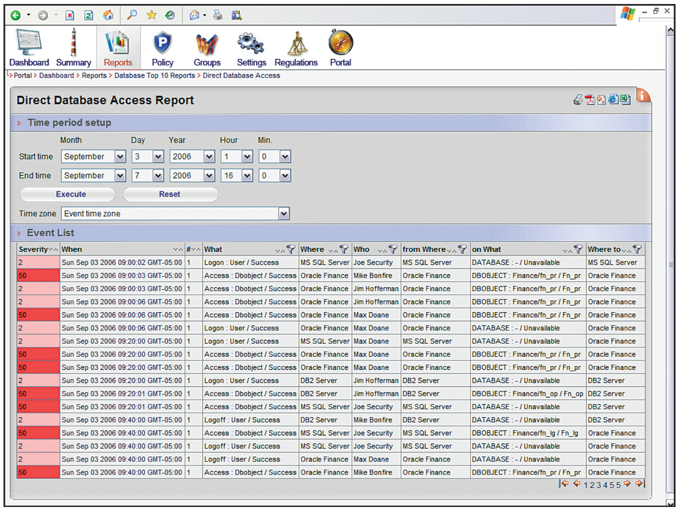
The enterprise activity dashboard gives you a quick, comprehensive view of "who's doing what" across your enterprise.

1. Log continuity

The Tivoli Compliance Insight Manager log continuity report verifies that all the various logs have been successfully collected and archived in the log management system. This report can help simplify and expedite audit activities, because it can prove you are collecting logs (and failing to perform this task is a common deficiency cited by auditors). The log continuity report also lets DBAs know that it is safe to remove the logs from their database platforms, since Tivoli Compliance Insight Manager collects, compresses and stores the original log data, freeing valuable space on production servers.

2. Enterprise activity dashboard

Do you want to determine who did what across your enterprise on any given day? A look at the Tivoli Compliance Insight Manager enterprise activity dashboard will give you a "bird's-eye" view into your enterprise. The larger circles highlight areas with high activity levels, while the red circles represent concerns about specific policy violations that require further investigation. The enterprise activity dashboard lets you determine quickly if significant activity is violating your organization's acceptable use or change management policies.


Dashboard
Summary
Reports
Policy
Groups
Settings
Regulations
Portal
Portal > Dashboard > Reports > Database Top 10 Reports > Direct Database Access

Direct Database Access Report

Time period setup

	Month	Day	Year	Hour	Min.
Start time	September	3	2006	1	0
End time	September	7	2006	16	0

Execute Reset

Time zone: Event time zone

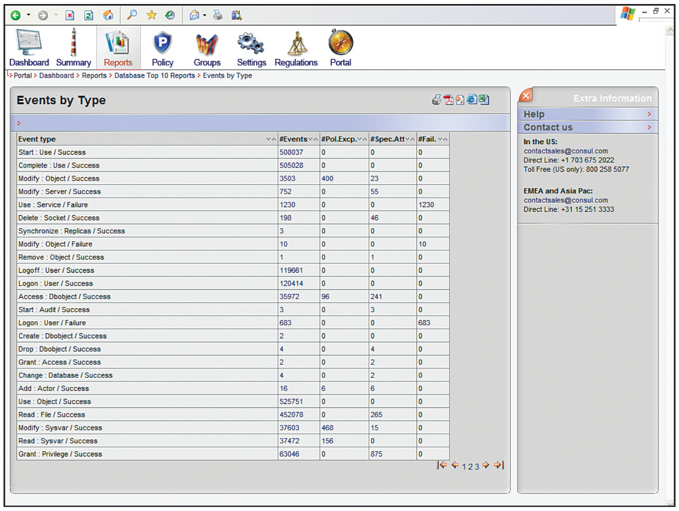
Event List

Severity	When	#	What	Where	Who	from Where	on What	Where to
2	Sun Sep 03 2006 09:00:02 GMT-05:00	1	Logon : User / Success	MS SQL Server	Joe Security	MS SQL Server	DATABASE : - / Unavailable	MS SQL Server
50	Sun Sep 03 2006 09:00:03 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Mike Bonfire	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance
2	Sun Sep 03 2006 09:00:03 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Jim Hofferman	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance
2	Sun Sep 03 2006 09:00:06 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Jim Hofferman	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance
50	Sun Sep 03 2006 09:00:06 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Max Doane	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance
2	Sun Sep 03 2006 09:00:06 GMT-05:00	1	Logon : User / Success	Oracle Finance	Max Doane	Oracle Finance	DATABASE : - / Unavailable	Oracle Finance
2	Sun Sep 03 2006 09:20:00 GMT-05:00	1	Logon : User / Success	MS SQL Server	Max Doane	MS SQL Server	DATABASE : - / Unavailable	Oracle Finance
50	Sun Sep 03 2006 09:20:00 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Max Doane	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance
50	Sun Sep 03 2006 09:20:00 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Max Doane	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance
2	Sun Sep 03 2006 09:20:00 GMT-05:00	1	Logon : User / Success	DB2 Server	Jim Hofferman	DB2 Server	DATABASE : - / Unavailable	DB2 Server
50	Sun Sep 03 2006 09:20:01 GMT-05:00	1	Access : Dbobject / Success	DB2 Server	Jim Hofferman	DB2 Server	DBOBJECT : Finance/fn_op / Fn_op	DB2 Server
50	Sun Sep 03 2006 09:20:01 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Joe Security	MS SQL Server	DATABASE : - / Unavailable	DB2 Server
2	Sun Sep 03 2006 09:40:00 GMT-05:00	1	Logoff : User / Success	DB2 Server	Mike Bonfire	DB2 Server	DATABASE : - / Unavailable	DB2 Server
50	Sun Sep 03 2006 09:40:00 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Joe Security	MS SQL Server	DBOBJECT : Finance/fn_lg / Fn_lg	Oracle Finance
2	Sun Sep 03 2006 09:40:00 GMT-05:00	1	Logoff : User / Success	MS SQL Server	Joe Security	MS SQL Server	DATABASE : - / Unavailable	Oracle Finance
2	Sun Sep 03 2006 09:40:00 GMT-05:00	1	Logoff : User / Success	Oracle Finance	Max Doane	Oracle Finance	DATABASE : - / Unavailable	Oracle Finance
50	Sun Sep 03 2006 09:40:00 GMT-05:00	1	Access : Dbobject / Success	Oracle Finance	Mike Bonfire	Oracle Finance	DBOBJECT : Finance/fn_pr / Fn_pr	Oracle Finance

The direct database access report allows you to view all accesses to your database from outside the application layer.

3. Direct database access

The direct database access report can be viewed from within the Tivoli Compliance Insight Manager report center. This report shows all accesses to your database that did not originate from the application layer. Undoubtedly, many of the activities shown will be routine DBA events, but some may well turn out to be clear violations of policy that you will want to analyze more closely.



Events by Type

Event type	#Events	#Pol.Excp.	#Spec.Att	#Fail.
Start : Use / Success	508037	0	0	0
Complete : Use / Success	505028	0	0	0
Modify : Object / Success	3503	400	23	0
Modify : Server / Success	752	0	55	0
Use : Service / Failure	1230	0	0	1230
Delete : Socket / Success	198	0	46	0
Synchronize : Replicas / Success	3	0	0	0
Modify : Object / Failure	10	0	0	10
Remove : Object / Success	1	0	1	0
Logoff : User / Success	119661	0	0	0
Logon : User / Success	120414	0	0	0
Access : Dbobject / Success	35972	96	241	0
Start : Audit / Success	3	0	3	0
Logon : User / Failure	683	0	0	683
Create : Dbobject / Success	2	0	0	0
Drop : Dbobject / Success	4	0	4	0
Grant : Access / Success	2	0	2	0
Change : Database / Success	4	0	2	0
Add : Actor / Success	16	6	6	0
Use : Object / Success	525751	0	0	0
Read : File / Success	452078	0	265	0
Modify : Sysvar / Success	37603	468	15	0
Read : Sysvar / Success	37472	156	0	0
Grant : Privilege / Success	63046	0	875	0

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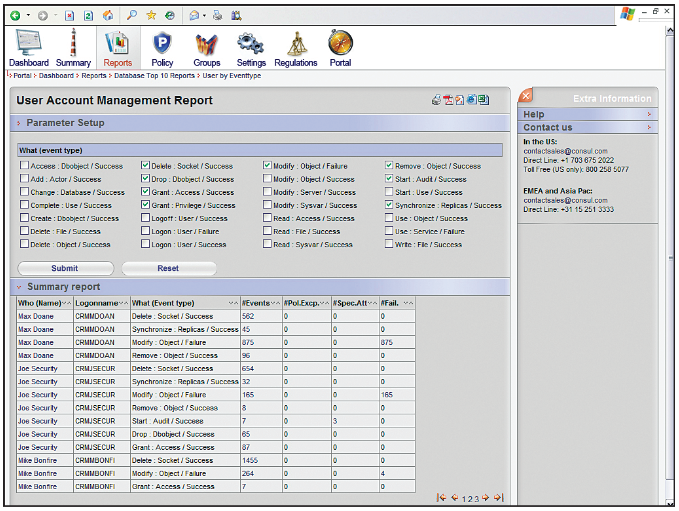
The events by type report allows you to quickly determine which operational changes can cause damage to your enterprise.

5. Privileged operations

The events by type report in Tivoli Compliance Insight Manager facilitates the monitoring of activities on your database that may routinely cause business problems such as system downtime. This report allows you to scan operational events — such as alter, create, drop table shutdown, kill, revoke and grant — to see if any activity violated your change management policy. If you find such a problem, you can easily send the report to organization management for discussion and resolution.



User Account Management Report

Parameter Setup

What (event type)

☐ Access : Dbobject / Success
☐ Add : Actor / Success
☐ Change : Database / Success
☐ Complete : Use / Success
☐ Create : Dbobject / Success
☐ Delete : File / Success
☐ Delete : Object / Success
☑ Delete : Socket / Success
☑ Drop : Dbobject / Success
☑ Grant : Access / Success
☑ Grant : Privilege / Success
☐ Logoff : User / Success
☐ Logon : User / Failure
☐ Logon : User / Success
☑ Modify : Object / Failure
☐ Modify : Object / Success
☐ Modify : Server / Success
☐ Modify : Sysvar / Success
☐ Read : Access / Success
☐ Read : File / Success
☐ Read : Sysvar / Success
☑ Remove : Object / Success
☑ Start : Audit / Success
☐ Start : Use / Success
☑ Synchronize : Replicas / Success
☐ Use : Object / Success
☐ Use : Service / Failure
☐ Write : File / Success

Submit Reset

Summary report

Who (Name)	Logonname	What (Event type)	#Events	#Pol.Excp.	#Spec.Att	#Fail.
Max Doane	CRMMDOAN	Delete : Socket / Success	562	0	0	0
Max Doane	CRMMDOAN	Synchronize : Replicas / Success	45	0	0	0
Max Doane	CRMMDOAN	Modify : Object / Failure	875	0	0	875
Max Doane	CRMMDOAN	Remove : Object / Success	96	0	0	0
Joe Security	CRMJSECUR	Delete : Socket / Success	654	0	0	0
Joe Security	CRMJSECUR	Synchronize : Replicas / Success	32	0	0	0
Joe Security	CRMJSECUR	Modify : Object / Failure	165	0	0	165
Joe Security	CRMJSECUR	Remove : Object / Success	8	0	0	0
Joe Security	CRMJSECUR	Start : Audit / Success	7	0	3	0
Joe Security	CRMJSECUR	Drop : Dbobject / Success	65	0	0	0
Joe Security	CRMJSECUR	Grant : Access / Success	87	0	0	0
Mike Bonfire	CRMMBONFI	Delete : Socket / Success	1455	0	0	0
Mike Bonfire	CRMMBONFI	Modify : Object / Failure	264	0	0	4
Mike Bonfire	CRMMBONFI	Grant : Access / Success	7	0	0	0

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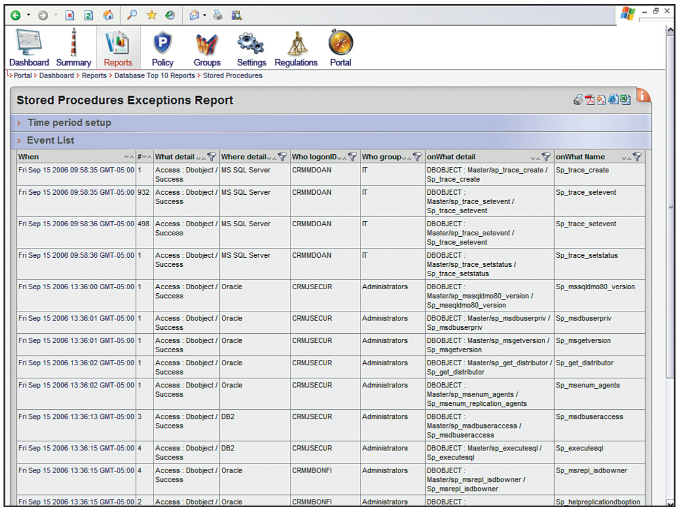
Privileged users sometimes become risks. The user account management report allows you to monitor administrative activities and minimize risk.

4. User account management

The Tivoli Compliance Insight Manager user account management report allows you to easily determine if administrators adhere to your organization's IT user account management policy. This report gives you insight on a very specific level — for instance, it allows you to scan for the addition of users or granting of rights listed as policy exceptions, special attentions and failures that may be suspicious, based on when they occurred or what they entail.


Dashboard
Summary
Reports
Policy
Groups
Settings
Regulations
Portal
Portal > Dashboard > Reports > Database Top 10 Reports > Stored Procedures

Stored Procedures Exceptions Report

Time period setup

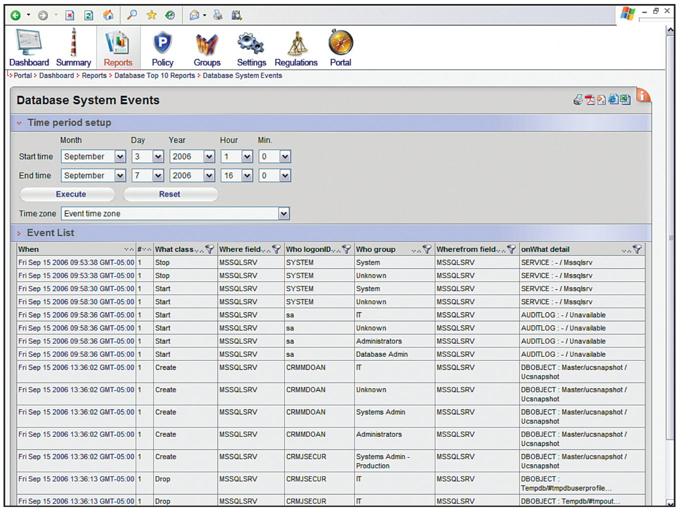
Event List

When	#	What detail	Where detail	Who logonID	Who group	onWhat detail	onWhat Name
Fri Sep 15 2006 09:58:35 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	CRMMDOAN	IT	DBOBJECT : Master/sp_trace_create / Sp_trace_create	Sp_trace_create
Fri Sep 15 2006 09:58:35 GMT-05:00	932	Access : Dbobject / Success	MS SQL Server	CRMMDOAN	IT	DBOBJECT : Master/sp_trace_setevent / Sp_trace_setevent	Sp_trace_setevent
Fri Sep 15 2006 09:58:36 GMT-05:00	498	Access : Dbobject / Success	MS SQL Server	CRMMDOAN	IT	DBOBJECT : Master/sp_trace_setevent / Sp_trace_setevent	Sp_trace_setevent
Fri Sep 15 2006 09:58:36 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	CRMMDOAN	IT	DBOBJECT : Master/sp_trace_setstatus / Sp_trace_setstatus	Sp_trace_setstatus
Fri Sep 15 2006 13:36:00 GMT-05:00	1	Access : Dbobject / Success	Oracle	CRMJSECUR	Administrators	DBOBJECT : Master/sp_mssqldmo80_version / Sp_mssqldmo80_version	Sp_mssqldmo80_version
Fri Sep 15 2006 13:36:01 GMT-05:00	1	Access : Dbobject / Success	Oracle	CRMJSECUR	Administrators	DBOBJECT : Master/sp_msdbuserpriv / Sp_msdbuserpriv	Sp_msdbuserpriv
Fri Sep 15 2006 13:36:01 GMT-05:00	1	Access : Dbobject / Success	Oracle	CRMJSECUR	Administrators	DBOBJECT : Master/sp_msgetversion / Sp_msgetversion	Sp_msgetversion
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Access : Dbobject / Success	Oracle	CRMJSECUR	Administrators	DBOBJECT : Master/sp_get_distributor / Sp_get_distributor	Sp_get_distributor
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Access : Dbobject / Success	Oracle	CRMJSECUR	Administrators	DBOBJECT : Master/sp_msenum_agents / Sp_msenum_replication_agents	Sp_msenum_agents
Fri Sep 15 2006 13:36:13 GMT-05:00	3	Access : Dbobject / Success	DB2	CRMJSECUR	Administrators	DBOBJECT : Master/sp_msdbuseraccess / Sp_msdbuseraccess	Sp_msdbuseraccess
Fri Sep 15 2006 13:36:15 GMT-05:00	4	Access : Dbobject / Success	DB2	CRMJSECUR	Administrators	DBOBJECT : Master/sp_executesql / Sp_executesql	Sp_executesql
Fri Sep 15 2006 13:36:15 GMT-05:00	4	Access : Dbobject / Success	Oracle	CRMMBONFI	Administrators	DBOBJECT : Master/sp_msrepl_isdbowner / Sp_msrepl_isdbowner	Sp_msrepl_isdbowner
Fri Sep 15 2006 13:36:15 GMT-05:00	2	Access : Dbobject /	Oracle	CRMMBONFI	Administrators	DBOBJECT :	Sp_helpreplicationdboption

The stored procedures exceptions report lets you easily determine if any "rogue" stored procedures have been executed.

6. Stored procedures exceptions

Most stored procedures are compliant, but occasionally one will be executed that causes significant damage to your database. The Tivoli Compliance Insight Manager stored procedures exceptions report helps you monitor for these dangerous procedures. When this report is implemented, and administrators are informed about the monitoring being performed by Tivoli Compliance Insight Manager, the frequency of unauthorized stored procedures often drops precipitously.



Portal > Dashboard > Reports > Database Top 10 Reports > Database System Events

Database System Events

Time period setup

	Month	Day	Year	Hour	Min.
Start time	September	3	2006	1	0
End time	September	7	2006	16	0

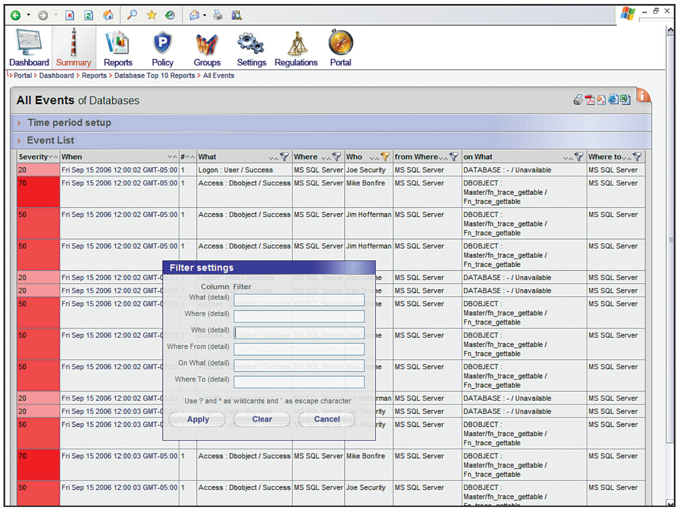
Execute | Reset

Time zone: Event time zone

Event List

When	#	What class	Where field	Who logonID	Who group	Wherefrom field	onWhat detail
Fri Sep 15 2006 09:53:38 GMT-05:00	1	Stop	MSSQLSRV	SYSTEM	System	MSSQLSRV	SERVICE : - / Mssqlsrv
Fri Sep 15 2006 09:53:38 GMT-05:00	1	Stop	MSSQLSRV	SYSTEM	Unknown	MSSQLSRV	SERVICE : - / Mssqlsrv
Fri Sep 15 2006 09:58:30 GMT-05:00	1	Start	MSSQLSRV	SYSTEM	System	MSSQLSRV	SERVICE : - / Mssqlsrv
Fri Sep 15 2006 09:58:30 GMT-05:00	1	Start	MSSQLSRV	SYSTEM	Unknown	MSSQLSRV	SERVICE : - / Mssqlsrv
Fri Sep 15 2006 09:58:36 GMT-05:00	1	Start	MSSQLSRV	sa	IT	MSSQLSRV	AUDITLOG : - / Unavailable
Fri Sep 15 2006 09:58:36 GMT-05:00	1	Start	MSSQLSRV	sa	Unknown	MSSQLSRV	AUDITLOG : - / Unavailable
Fri Sep 15 2006 09:58:36 GMT-05:00	1	Start	MSSQLSRV	sa	Administrators	MSSQLSRV	AUDITLOG : - / Unavailable
Fri Sep 15 2006 09:58:36 GMT-05:00	1	Start	MSSQLSRV	sa	Database Admin	MSSQLSRV	AUDITLOG : - / Unavailable
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Create	MSSQLSRV	CRMMDOAN	IT	MSSQLSRV	DBOBJECT : Master/ucsnapshot / Ucsnapshot
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Create	MSSQLSRV	CRMMDOAN	Unknown	MSSQLSRV	DBOBJECT : Master/ucsnapshot / Ucsnapshot
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Create	MSSQLSRV	CRMMDOAN	Systems Admin	MSSQLSRV	DBOBJECT : Master/ucsnapshot / Ucsnapshot
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Create	MSSQLSRV	CRMMDOAN	Administrators	MSSQLSRV	DBOBJECT : Master/ucsnapshot / Ucsnapshot
Fri Sep 15 2006 13:36:02 GMT-05:00	1	Create	MSSQLSRV	CRMJSECUR	Systems Admin - Production	MSSQLSRV	DBOBJECT : Master/ucsnapshot / Ucsnapshot
Fri Sep 15 2006 13:36:13 GMT-05:00	1	Drop	MSSQLSRV	CRMJSECUR	IT	MSSQLSRV	DBOBJECT : Tempdb/#tmpdbuserprofile...
Fri Sep 15 2006 13:36:13 GMT-05:00	1	Drop	MSSQLSRV	CRMJSECUR	IT	MSSQLSRV	DBOBJECT : Tempdb/#tmpout...

The database system events report helps you monitor database systems for critical risks.



Portal > Dashboard > Reports > Database Top 10 Reports > All Events

All Events of Databases

Time period setup

Event List

Severity	When	#	What	Where	Who	from Where	on What	Where to
20	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Logon : User / Success	MS SQL Server	Joe Security	MS SQL Server	DATABASE : - / Unavailable	MS SQL Server
70	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Mike Bonfire	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
50	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Jim Hofferman	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
50	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Jim Hofferman	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
20	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Logoff : User / Success	MS SQL Server	Max Doane	MS SQL Server	DATABASE : - / Unavailable	MS SQL Server
20	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Logon : User / Success	MS SQL Server	Max Doane	MS SQL Server	DATABASE : - / Unavailable	MS SQL Server
50	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Max Doane	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
50	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Max Doane	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
50	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Max Doane	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
20	Fri Sep 15 2006 12:00:02 GMT-05:00	1	Logoff : User / Success	MS SQL Server	Jim Hofferman	MS SQL Server	DATABASE : - / Unavailable	MS SQL Server
20	Fri Sep 15 2006 12:00:03 GMT-05:00	1	Logon : User / Success	MS SQL Server	Joe Security	MS SQL Server	DATABASE : - / Unavailable	MS SQL Server
50	Fri Sep 15 2006 12:00:03 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Joe Security	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
70	Fri Sep 15 2006 12:00:03 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Mike Bonfire	MS SQL Server	DBOBJECT : Master/fn_trace_gettable / Fn_trace_gettable	MS SQL Server
50	Fri Sep 15 2006 12:00:03 GMT-05:00	1	Access : Dbobject / Success	MS SQL Server	Joe Security	MS SQL Server	DBOBJECT : Master/fn_trace_gettable /	MS SQL Server

Filter settings

Column	Filter
What (detail)	
Where (detail)	
Who (detail)	
Where From (detail)	
On What (detail)	
Where To (detail)	

Use ? and * as wildcards and ` as escape character.

Apply | Clear | Cancel

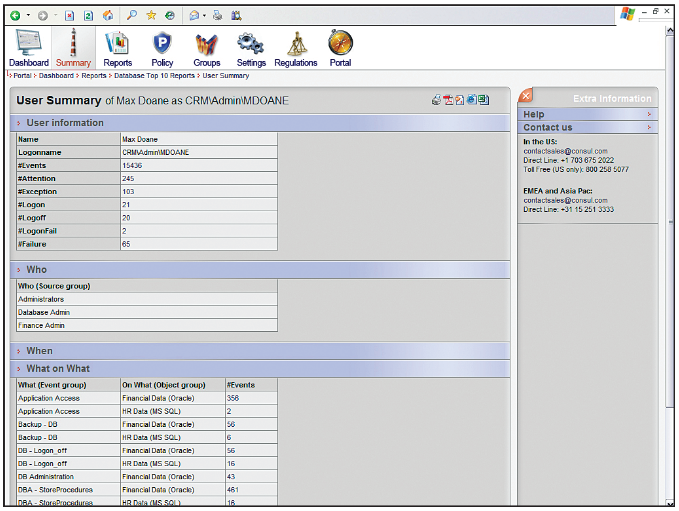
The all events report allows you to see all DBMS events at a glance.

7. Database system events

No database sits in isolation — its underlying server can suffer from the same sort of inadvertent mistakes and malicious attacks that plague your DBMS. The Tivoli Compliance Insight Manager database system events report provides the overview you need to monitor the DBMS server system and ensure that noncompliant activities are not taking place.

8. Database events list

The all events report in Tivoli Compliance Insight Manager puts it all there in black and white for everyone (including the auditors) to see. This report, combined with the log continuity report, verifies that you've collected all the logs and can account for all the activities on the database.



Portal > Dashboard > Reports > Database Top 10 Reports > User Summary

User Summary of Max Doane as CRM\Admin\MDOANE

User information

Name	Max Doane
Logonname	CRM\Admin\MDOANE
#Events	15436
#Attention	245
#Exception	103
#Logon	21
#Logoff	20
#LogonFail	2
#Failure	65

Who

Who (Source group)
Administrators
Database Admin
Finance Admin

When

What on What

What (Event group)	On What (Object group)	#Events
Application Access	Financial Data (Oracle)	356
Application Access	HR Data (MS SQL)	2
Backup - DB	Financial Data (Oracle)	56
Backup - DB	HR Data (MS SQL)	6
DB - Logon_off	Financial Data (Oracle)	56
DB - Logon_off	HR Data (MS SQL)	16
DB Administration	Financial Data (Oracle)	43
DBA - StoreProcedures	Financial Data (Oracle)	461
DBA - StoreProcedures	HR Data (MS SQL)	16

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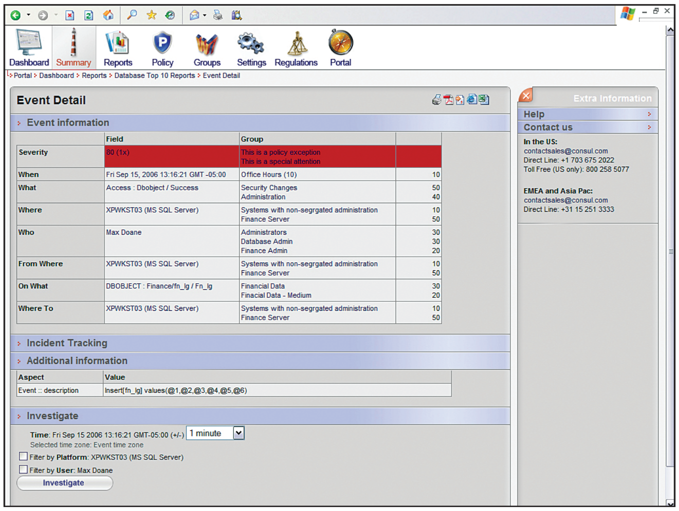
The user summary report allows you to investigate any user's activities and quickly identify suspicious behavior.



Portal > Dashboard > Reports > Database Top 10 Reports > Event Detail

Event Detail

Event information

	Field	Group	
Severity	80 (1x)	This is a policy exception This is a special attention	
When	Fri Sep 15, 2006 13:16:21 GMT -05:00	Office Hours (10)	10
What	Access : Dbobject / Success	Security Changes Administration	50 40
Where	XPWKST03 (MS SQL Server)	Systems with non-segrgated administration Finance Server	10 50
Who	Max Doane	Administrators Database Admin Finance Admin	30 30 20
From Where	XPWKST03 (MS SQL Server)	Systems with non-segrgated administration Finance Server	10 50
On What	DBOBJECT : Finance/fn_lg / Fn_lg	Financial Data Finacial Data - Medium	30 20
Where To	XPWKST03 (MS SQL Server)	Systems with non-segrgated administration Finance Server	10 50

Incident Tracking

Additional information

Aspect	Value
Event :: description	Insert[fn_lg] values(@1,@2,@3,@4,@5,@6)

Investigate

Time: Fri Sep 15 2006 13:16:21 GMT-05:00 (+/-) 1 minute
Selected time zone: Event time zone

☐ Filter by **Platform**: XPWKST03 (MS SQL Server)

☐ Filter by **User**: Max Doane

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The event detail report allows you to instantly view all the details of a potentially fraudulent or suspicious action.

9. User summary

The user summary report in Tivoli Compliance Insight Manager allows you to scan all the database activities of any specific user (such as a system administrator who is suspected of fraud), study the information provided and note any policy exceptions before distributing the report to other interested parties within your organization.

10. Incident investigation

Any particular event highlighted in the user summary report can be "pulled out" and viewed in greater detail in the event detail report. This feature of Tivoli Compliance Insight Manager will help you, and others in your organization, understand suspicious user activities in precise and comprehensive terms.

Achieve true information security

Tivoli Compliance Insight Manager and its top 10 reports for database auditing provide the comprehensive, detailed reporting demanded by both security professionals and internal and external auditors — and they allow you to compile this information in just minutes instead of hours. Tivoli Compliance Insight Manager custom reporting and expert services can help you investigate possible data breaches, as well as comply with regulations and security policies, by automating cross-platform log collection and providing the visibility you need into your IT systems.

By providing critical tools for monitoring and reporting on database activities, Tivoli Compliance Insight Manager can be a key component in your effort to support true information security within your enterprise.

For more information

To learn more about how Tivoli Compliance Insight Manager can help your organization achieve true information security, contact your IBM representative or IBM Business Partner, or visit **ibm.com**/tivoli

About Tivoli software from IBM

Tivoli software provides a set of offerings and capabilities in support of IBM Service Management, a scalable, modular approach used to deliver more efficient and effective services to your business. Helping meet the needs of any size business, Tivoli software enables you to deliver service excellence in support of your business objectives through integration and automation of processes, workflows and tasks. The security-rich, open standards–based Tivoli service management platform is complemented by proactive operational management solutions that provide end-to-end visibility and control. It is also backed by world-class IBM Services, IBM Support and an active ecosystem of IBM Business Partners. Tivoli customers and business partners can also leverage each other's best practices by participating in independently run IBM Tivoli User Groups around the world — visit www.tivoli-ug.org

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