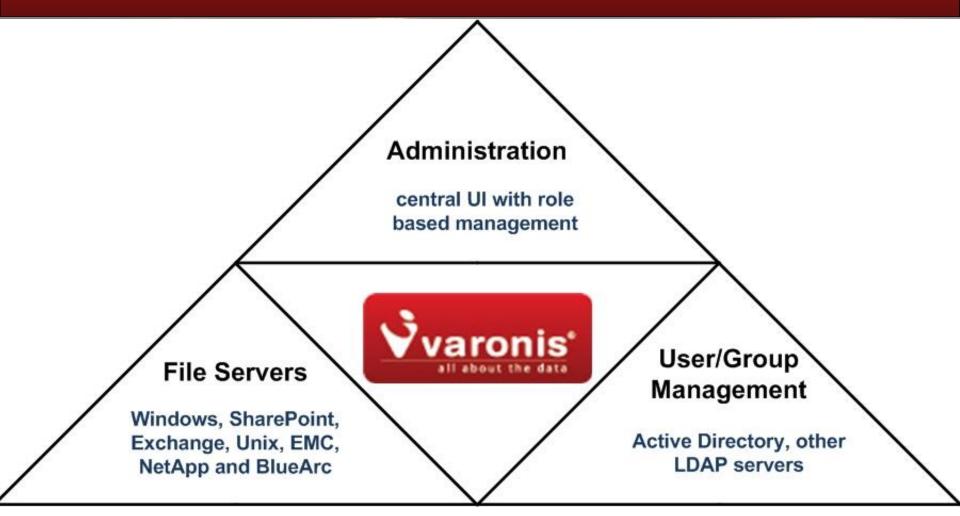




Sandro Huber CIO FreeDivision





Unstructured Data Explosion





Data Explosion – Are We Ready?

MORE

+ Data + Collaboration + Cross-Functional Teams + Security Requirements

> MORE Containers MORE ACLs MORE Management

91%

Lack processes for determining data ownership

76%

Unable to determine who can access unstructured data

Can IT answer?

✓ Who has access to this folder?

✓ Which folders does this user or

group have access to?

- Who has been accessing this folder?
- ✓ Which data is sensitive?

✓ Who is the data owner?

✓ Where is my sensitive data

overexposed?

- ✓ How do I fix it?
- ✓ Where do I begin?

SOURCE: PONEMON INSTITUTE

Hit "Esc" to return to Main Menu



Page 4

DatAdvantage Overview

- Permissions Visibility
- Usable Audit Trail
- Permissions Recommendations & Modeling

🕼 DatAdvantage - : localhost - [Resource: FileServ

- Data Ownership Identification
- Data Classification Information* (with DCF)

Work Area: FileServer
Windows Servers
Unix Servers
NAS Devices
SharePoint
Exchange

_ 8 ×

Adrian Hane (Ro EU00 n. Adrian Julicher (R. EU02 - /57 🎽 🕒 EU03 n Existing Users and Groups EU2001 n n EU2002 Errors 🧵 (O) New Msg. Start 🔰 🚱 Cannot find server - Micr... 🛛 🚺 DatAdvantage - : loca. 🚯 2:27 PM



Permissions - Bi-Directional Visibility

🚊 Work Area 📔 🚔 Review Area 🗌 🕙	Statistics 🗎 Log 🌍 Reports 🚹 Alerts 🙆 History	🔹 🕨 😵 Work /	🜗 🕨 🕨 Work /
& Existing Users and Groups	📁 Directories		
🍜 Reload 🛛 💿 Children 📄 💙	🥵 Reload 🛛 🖹 List 🗧 法 Pruned Tree 🗧 🏥 Arrow Tree 🗧 🐡	Filters	w Tree 🛛 💙 Filters
Org. Units: All Domains 💌	Resources: All Resources	-	
Look For:	Look For: Search	-	Search
Arranged By:Display Name 🔺	Directory Pennissions Ex	planations Size	Explanations Size
🗜 🕹 Bornain Admins 🔶	🕀 😰 databases 🛛 M R 📈 X L (N	nherited from "Everyone") 1	
🖃 🔏 Group:Finance	🕀 😰 DataShare1	9	347.52 GB
Allen Carey		nherited from "Everyone") 5	100.02 KB
🖳 🚨 Allison Schafer	Embd-Engineering	9	11.78 MB
🗠 🚨 Andrew Carlisle	ERP-Arc	3	984
🔍 🚨 Andrew Weirich		nherited from "Group:Finance") 8	11.88 MB
🛛 🚨 Anne Thornton	1 404	0	3.07 MB
- <u>2</u> Beatrice Late	7MS94	0	12.06 KB
	7094	0	961.49 KB
		0	5.11 GB
Users/Grou	DS		93.68 MB
			3.44 KB
🛆 Crystai Grove	Cars		856
Elena Cabrera	Controllers	0	0
- A Eric Adler			0
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🛛 🚨 Margaret Coakley 📃 💌		- 0 -	0

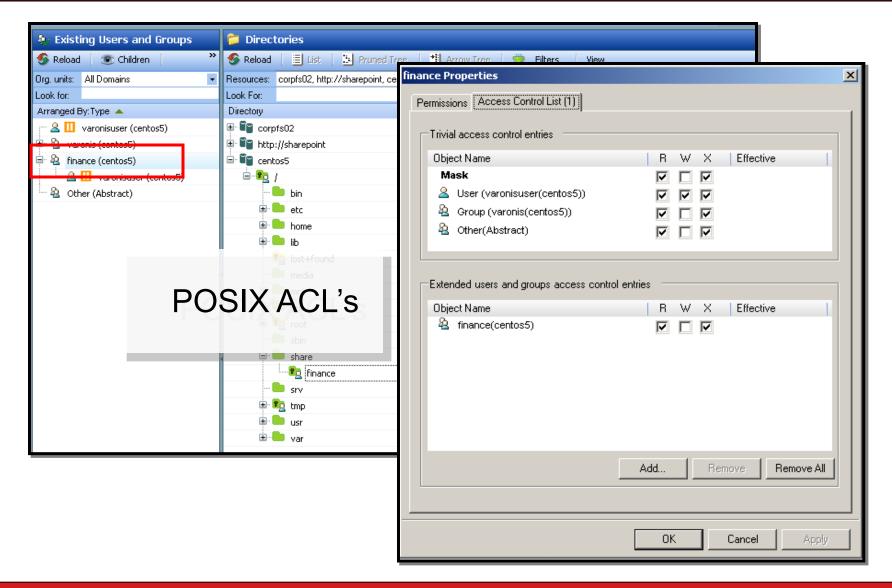


Exchange- Bi-Directional Visibility

large state the series and Groups 🚽	📁 Directories				
🌮 Reload 🛛 💿 Children 🔷 💙	S Reload 🛛 🗄 List 🔹 Pruned Tree	📲 Arrow Tree 🛛 🤘	🕨 Filters 👘 View 📄 🏊 Exchange Gr	ouping	
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Users/Gro	ups	to D	Data	Size	Contained Files
	corpfs02				
- ANONYMOUS LOGON (Abstract)	eereeg c:			1.87 TB	8,334
😫 Default (Abstract)	😑 📲 Exch-prod				
🖻 ዿ Group_Finance (CORP)	🖶 🖻 Mailbox S <mark>t</mark> ore			65.02 MB	86,341
Allen Carey (CORP)	🕒 🖻 Charged				
🐃 👗 Allison Schafer (CORP)	🖶 🖿 Not permitted				
🚨 Andrew Carlisle (CORP)	🖻 💼 Perm <mark>tted</mark>				
<u> </u>	aronNederveld@corp	Full Access Send On E	Inherited FROM "Allen Carey(CORP)"	299.99 KB	340
🗠 🚨 Anne Thornton (CORP)	🖶 🚉 AdamNelson@corp.local	Full Access Send As 1	Inherited FROM "Everyone(Abstract)"	318.66 KB	386
Beatrice Latchford (CORP)	🖶 🧏 AdrianReddy@corp.local	Full Access Send As 1	Inherited FROM "Group_Finance(CORP)"	5.82 KB	11
🖳 🚨 Benjamin Kasbekar (CORP)	💷 🧏 AliciaMcGuire@corp.local	Full Access None	Inherited FROM "Domain Users <mark>(CORP)</mark> "	0 Bytes	0
🗆 🙎 Carlos Kelty (CORP)	🖹 🖹 🖹 AilenCarey@corp.local	Full Access None	Inherited FROM "SELF(Abstract)"	406.06 KB	487
	🗄 🧕 AllisonDunn@corp.local	Send As None	Inherited FROM "Everyone(Abstract)"	78.95 KB	103
to Llooro/C		Send As None	Data	388.73 KB	441
to Users/C		Full Access None	Inherited FROM "Everyone(Abstract)"	113.46 KB	168
	Banda AndrewCarlisle@corp.local	Send On Behalf None	Inherited FROM "Allen Carey(CI)RP)"	438.38 KB	509
	Public Folders	Publishing Author	Inherited from "ANONYMOUS LOGO	10.41 KB	1
- A Erin Manning (CORP)	Finance	Editor	Inherited from "Group_Finance(CORP)"	10.41 KB	1
🚨 Eugene Schaefer (CORP)	🔛 HR	None		0 Bytes	0
- A Heather Cano (CORP)	🖳 Legal	Author	Inherited from "ANONYMOUS LOGO	0 Bytes	0
- 🚨 Jane Nolan (CORP)	- 🖳 Manufacturing	Author	Inherited from "ANONYMOUS LOGO	0 Bytes	0
	Marketing	Author	Inherited from "ANONYMOUS LOGO	0 Bytes	0
🖳 🚨 🛄 Jennifer Harrison (CORP)	Sales	Contributor	Inherited from "Default(Abstract)"	0 Bytes	0



Unix Visibility





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Identify Risk – Over-exposed Sensitive Data

📁 Direct	tories					🍇 Recommended Users and G
🍜 Reload	📃 📃 List 🛛 🛃 Prune	ed Tree 🛛 🏥 Arrow Tree 🔤	💛 Filters View			🧐 Reload 🕴 🐨 Children 🕴 🛃 Al
Resources:	corpfs02, centos5, http://s	· · · · · · · · · · · · · · · · · · ·				Org. units: All Domains
Look For:		Search				Look for: every
Directory		Permissions	Explanations	Violation	Notes	Arranged By:Name
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→ ⊡••	😫 Share	FMRWXL	Inherited from "Everyone(Abstract)"	203	Social Security Numbers (75) ,american .	
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	🗉 😰 Embd-Engine	_ //				i i
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	🗄 😢 📶 finance	_//		0		
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	🗉 😰 groups	RWXL	Inherited from "Everyone(Abstract)"	0		
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				0		9
	🗉 🛑 legal			91	Social Security Numbers (35) ,american	£I
	te Ro Markat			0		1 -



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Audit Trail

🗟 Work Area 📔 è Review Area 🗌	🌖 Statistics 📔 Log 📔	🧼 Reports 🕴 📘	Alerts				🜗 🕨 🍋 Log: fin	ance[co
🍜 Reload 🛛 🧮 List 🔹 🎽	Switch to advanced mode	Save/Load						
Resources: corpfs02, centos5, http:/ Look For: Search	Show data from: File syste	em events 🔹	From: 11/ 2,	' 2009 12:00 AM - To:	11/ 2/2009	11:59 PM 🔽	Search	
Directory	📓 Log							
🖃 👕 corpfs02			Dive et e e v e et le	Charles with ICARIs and			11/0/0000 10:00:00	
→ 🖻 · 🖻 C:	Query: File name Not and 11/2/2009 11:59:5					J Time between	11/2/2008 12:00:007	AM 📥
in the state of th	Operation Type				10001110			
🗄 🦻 apps		<u> </u>						1 m m
🖻 🕒 B4 📃		Server / Do	0 Operation On		U	Operation Ty 🔺	Uperation By	File Type
🗄 🛑 B4Released-App	🛨 Operation Type: Object a	idded (103)						
🕀 😰 BBB-Project	Operation Type: Object n	ame changed (41	1)					
🖻 🔋 📴 BI		lame enangea (+	•)					
🖻 😰 databases	📃 (peration Type: Object re							
🕀 😰 DataShare1	11/2/2009 10:25: corp		<u></u>	ce\GUI\NEWMASHV\OFE		Object removed	CORP\Elena Cabrera	XLS
🖃 😰 dsr	11/2/2009 10:25: corp	fs02	C:\Share\finan	ce\GUI\NEWMASHV\BO(OK1.XLS 🔀	Object removed	CORP\Elena Cabrera	XLS
🖻 😰 Embd-Engineerin								
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		Searc	ch. So	rt, and G	Group			

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Audit Trail with Data Classification

📑 Log					
Search					
📑 😚 New Group – 🏋 New Filter	🙀 Remove Selected	Filter 🕹 Sort			
📕 Show data from	Equals	File-system events		1	
and Time and	Between	Sensitive Data Acc	ess Ac	tivity	
Any of (OR):					
☐ <u>Rule name</u> or	<u>Equals</u>	Visa	▼		
☐ <u>Rule name</u> or	<u>Equals</u>	Master Card	•		
<u>Rule name</u>	<u>Equals</u>	American Express	•		
Switch to Simple Search	Save/Load Query	Definitions >>			
Drag a column header here to group b	y that column.				
Time File Se 0 1		Path	0 Operation Type	Operation By	File
			Le modified	CORP\Eric Adler	txt
······	· · · · · · · · · · · · · · · · · · ·		H Object added	CORPVAnn Schoenber	txt
		C:\Share\finance\Economics\Costing\2 - Inventory Report\2006\Q	🧸 File modified	CORP\Ann Schoenber	txt
····· • • · · · · · · · • • • • • • • •	•••••	C:\Share\finance\Financial Reports\Prices and Item Numbers	H Object added	CORP\Crystal Grove	txt
·····• • · · · · · · · · · · · · · · ·	······	C:\Share\finance\Financial Reports\Prices and Item Numbers	🧸 File modified	CORP\Crystal Grove	txt
		C:\Share\finance\Economics\Costing\2 - Inventory Report\2006\Q	Object added	CORP\Eric Adler	txt
······································			🧸 File modified	CORP\Eric Adler	txt
12/3/2010 10:54: corpfs 📒	hi-speed checkweigh	C:\Share\legal\Corporate\License Agreements	🕂 Object added	CORP\Melissa Donovan	txt



Audit Trail with Exchange

💩 Users and Groups	🖺 Log										
🍜 Reload 🛛 💿 Children 📄 🂙	When did the event occur? - "SpecificDates" between 12/1/2010 12:00:00 AM and "1/9/2011 11:59:59 PM" AND Look only in these resources: - "(corpfs										
Org. units: All Domains	entos5 or http://sharepoint or Exch-prod)" AND What was the nature of the event? - "All Operations" AND Who accessed the folder? - "Allen Carey(CO										
Look for: allen carey											
Arranged By:Name	Click here to change the query										
Allen Carey (CORP)	🛕 Not all results retrived from the database. Any sorting or group-by operation will take into account only currently retrived objects.										
	Operation Type										
	▲ Time File Serve 0 0bject ▲ Path 0 0 peration Ty ▲ Change Description										
	Operation Type: File modified (17)										
	Operation Type: File opened (20)										
	Operation Type: Message opened (16)										
	Operation Type: Message received (97)										
	🗃 Operation Type: Message sent (30)										
	Operation Type: Message sent as (2)										
	🖃 Object: Financial reports (2)										
	12/2/2010 2:59:0 Exch-prod 🖂 Financial reports 🛛 Mailbox Store \Allen Carey@corp.l 🔯 Message sent as 🕅 Message sent to Adrian Reddy@corp.local as Adam Nelson@cor										
	12/3/2010 10:09: Exch-prod 🖂 Financial reports 🛛 Mailbox Store \ Allen Carey@corp.1 🔯 Message sent as 🕅 Message sent to Adrian Reddy@corp.local as Adam Nelson@cor										
	🗷 Operation Type: Message sent on behalf (5)										
	Operation Type: Object added (13)										
	🗈 Object: billing Jan- march.txt (2)										
	🖃 Object: billing Jan- march.xls (2)										
	12/1/2010 9:02:0 corpfs02 📕 billing Jan- march C:\Share\finance\Q1 2006 👫 Object added										
	12/3/2010 11:27: corpfs02 📒 billing Jan-march C:\Share\finance\Q1 2006 👫 Object added										

Hit "Esc" to return to Main Menu

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Recommendations

📁 Directories			🛓 Recommended Users and Groups
🥵 Reload 🛛 🧮 List 🐘 Pruned Tree 🔹 🏥 Arrow Tree 🗧 💗	Filters View		🥵 Reload 🛛 💿 Children 🛛 🛃 Arrange By 🛛 🤿 Filters
Resources: corpfs02, centos5, http://sharepoint			Org. units: All Domains
Look For: Search			Look for:
Directory Permissions			Arranged Bu Statue
📮 📲 corpfs02			▲ 🖳 B sec_ <u>IT-System (CORP)</u> M R W X L
⇒≘-® <u>2</u> C:	356		🖶 🔒 Group_Finance (CORP) 🛛 🛛 R W X L
	By User		🚨 🔀 Christy Venier (CORP)
	Dy 0001		- 🔍 🔀 🛄 Jennifer Harriso
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- 🚨 🔀 Marc Farhat (CORP)
What if?	0	127.14 MB	🔤 🚨 🔀 Eugene Schaefer
	0	31.79 MB	- 🖉 🖂 Eric Adler (CORP)
	0	190.71 MB	- 🚨 🔀 Jeffrey Shaw (CORP)
🖕 🕰 databases	6	52.86 GB	- 🖉 🛛 Benjamin Kasbekar
💼 😰 DataShare1	0	540.35 MB	- 🚨 🔀 Andrew Weirich (
🗄 📴 dsr	5	19.12 GB	🚨 🔀 Elena Cabrera (CORP)
💷 😰 Embd-Engineering	0	2.05 GB	🚨 🔀 Michael Federle (
🗈 😰 ERP-Arc	1	2.36 GB	🚨 🔀 Maria Hirasaki (CORP)
🖨 😰 📶 finance	25	76.45 GB	
🗄 🕒 404	0	0 Bytes	🚨 Margaret Coakley (CORP)
🖅 🛑 7M594	0	0 Bytes	🚨 Jane Nolan (CORP)
 7YO94	0		
🕒 atm	0	0 Bytes	🚨 Anne Thornton (CORP)
ы	0	0 Bytes	xcess Permissions?
Cars	0	0 Bytes	
🕀 😰 Controllers	8		
D	0	O Bytes	🚨 Carlos Kelty (CORP)
🖶 😑 data	0	0 Bytes	🚨 Allen Carey (CORP)
DEMO	0	0 Bytes	🚨 Erin Manning (CORP)
DEMO94	0	0 Bytes	🚨 Chris Overcash (CORP)
Economics	3	19.00 GB	Crystal Grove (CORP)



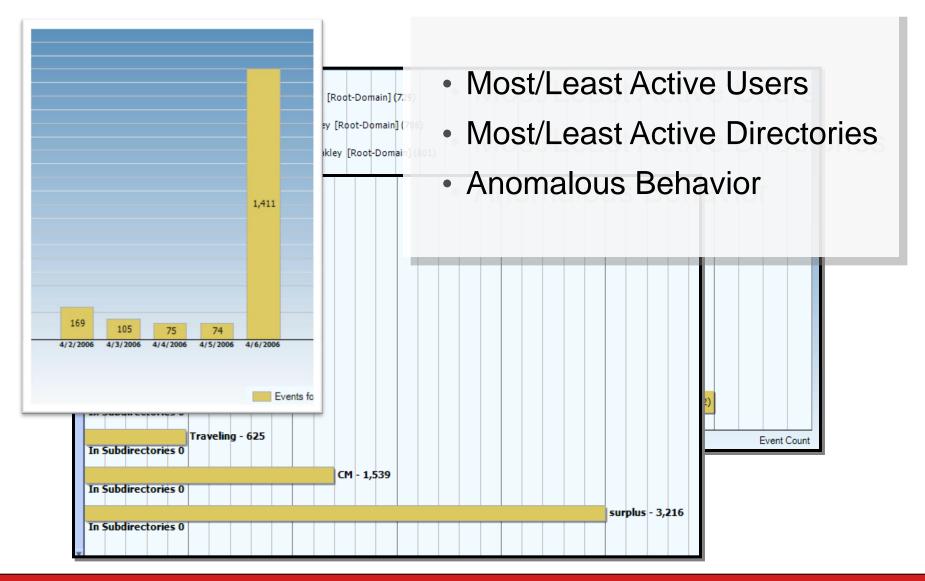
Permissions Clean-up

🗟 Work	Area	🛓 Rev	iew Area 📋 🅙	Statistics 📔 🧎 Log 📔 🥯 Reports	📔 🔛 Ale	erts 🙆 History	[◀ ▶ ■ Work Area: FileServer
🕴 Erro							×	🛓 Recommended Users and Groups
🍜 Reloa	-	rify Shared					e	» 🧐 Reload 💿 Children 🛛 🛃 Sort 🗍
User	Include	Sequ 🔺	Status	Description	BeginTime	Error Description		Org. Units: All Domains
Filer	V			Protection/Uniqueness changed: legal is protec			ich	Look For:
🕀 🚨 Ali		2	🔛 Pending Oper	remove group Everyone(Abstract) FMRLXW for	172072010	<u></u>	E Kp	🔺 — 🎭 🔀 Everyone (Abstract) 🛛 F 🗧 R 🔍 X L
🛨 🚨 All							-	
								×
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	•						F	Login Cancel
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		-	View	Outcor Properties				Simulate Changes
				Open				
						-		



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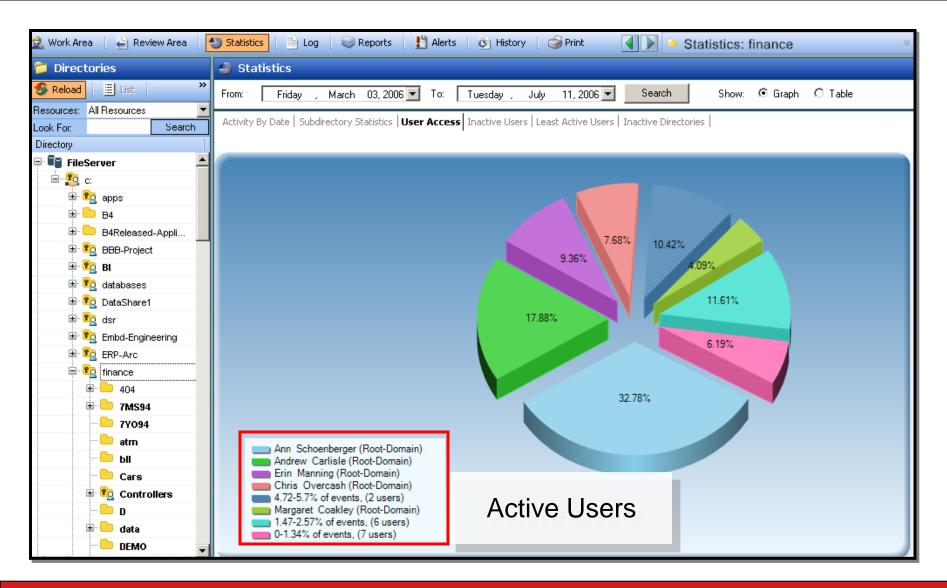
Activity Analysis



Vvaronis[®]

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Data Ownership Identification



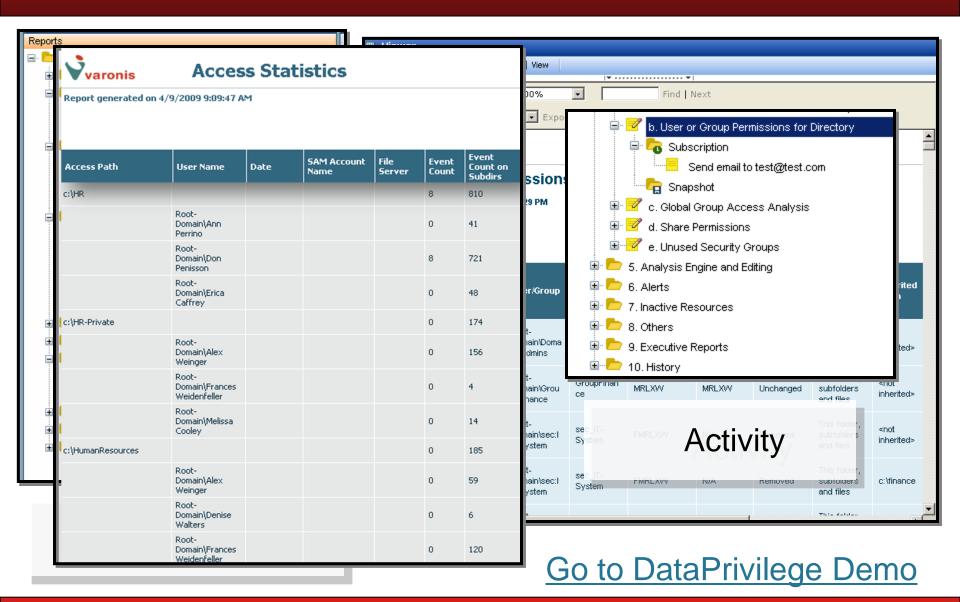


Data Ownership Assignment

DatAdvantage - : localhost - [Res	urce: FileServer]
ile Tabs Tools Help	
🤰 Work Area 📔 🍋 Review Area 📗	🌖 Statistics 📔 Log 📔 😌 Reports 🛛 💾 Alerts 🛛 🥥 Print 🔹 📢 🚺 🖉 Statistics: finance[FileServer] 👘
Directories	Statistics
🔗 Reload 🛛 📃 List 🔹 🂙	
Resources: All Resources	From: Monday , December 01, 2008 💌 To: Wednesday, January 14, 2009 💌 Search Show: 💿 Graph 🔿 Table
Look for: Search	Activity By Date Subdirectory Statistics User Access Inactive Users Least Active Users Inactive Directories Activity on managed folders
Directory	
🖓 📲 FileServer 📃	
🖻 🦺 с:	
🕀 😰 apps	
🕀 🕒 B4	
🖻 🕒 B4Released-Applicatic	
BBB-Project	7.68%
BI	
databases	936% Right-click
। ∎ः [®] ⊒ DataShare1 ∎ः ®⊒ dsr	
Embd-Engineering	nership Assignment Set Ownership
ERP-Arc	
	2 Are you sure you want to set Person Ann Schoenberger as owner for Directory finance?
⊕ 0404	6.19%
🕀 🕒 7MS94	Yes No
 7Y094	
🕒 atm 🗕 🛏	
bil	32.78%
Cars	Jump To 🕨
🗄 😰 Controllers	Manage Ownership
<mark></mark> D	Set Ownership
😟 🕒 data	Ann Schoenberger (Root-Domain)
	Andrew Carlisle (Root-Domain)
DEMO94	Chris Overcash (Root-Domain)
Economics	4.72-5.7% of events, 2 users Margaret Coakley (Root-Domain)
EU00	1.47-2.57% of events, 6 users
EU02	0-1.34% of events, 7 users
😓 Users and Groups	
Directories	Represents the distribution of events per user on the specified directory
Directories	vehicseurs are apartedration exerts bei reel att are sherrited allegraph.



Reports – Automatic Data Owner Involvement





DataPrivilege Overview

- Entitlement
 Reviews
- Authorization Workflow
- Self Service Portal
- Ethical Walls

_{ue} Rule name:	InvestmentsAccess	?		s Enabled
^{ue} Logical path:	CORP\FINANCE			
7 Folder name:	FINANCE			
Clauses				
Department Equ	als Investments			
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om				
ct				Edit
ary				
_{9 R} Request Operat	ion Type	?	Permissions	?
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em O (Grant 🐥 🛛 🛛 Grant & Revo	ke		
	Revoke 📕 💿 Revoke All 🍯	a		
Jwr				
Expiration Date		?	Authorization	?
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	After Days		departmenet should have	
	Days		access to the finance data.	I
☑ Enforce Rule	?			
	re automatically ?			
	·			
			ОКПСа	ancel
Ad				11001

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DataPrivilege – Automated Entitlement Reviews

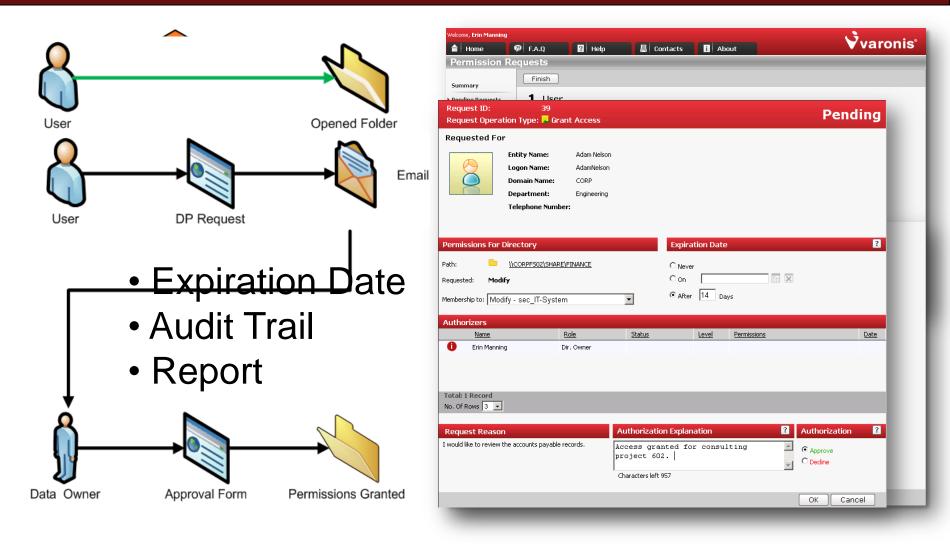
- Approve or Overrule:
 - Changes
 - DA Recommendatic
- Report

e:		est ID: est Type		3504 Entitlemer	it Rev	iew						Pendi		
	equests and Authorizations													
ReqID	Request By	Reque	st For	Date		Reason		Туре	Ор. Туре	Status	Req On			
222	Erin Manning	Crystal	l Grove	6/22/2009	9	Initial revie	w	Membership	Grant	Approved	Group_Finan	се		
	Authorizer Nan	ne	Role Nar	ne	AL	h Level	Approval Date	Reason				Status		
	CORP \ Enix Mann	ning	Group Ov	wner	1		6/22/2009	Initial review				Approved		
20	Erin Manning	Nathan Sonneb		6/22/2009	9	Initial revie	w	Membership	Grant	Approved	Group_Finan	ce		
	Authorizer Nan	ne	Role Nar	ne	Aut	h Level	Approval Date	Reason				Status		
	CORP \ Erin Manr	ning	Group Ov	wner	1		6/22/2009	Initial review				Approved		
18	Erin Manning	Margar Coakley		6/22/2009	9	Initial revie	w	Membership	Grant	Approved	Group_Finan	се		
	Authorizer Nan	ne	Role Nar	ne	Aut	h Level	Approval Date	Reason				Status		
	CORP \ Erin Manr	ning	Group Ov	wner	1		6/22/2009	Initial review				Approved		
6	Erin Manning	Anne T	hornton	6/22/2009	9	Initial revie	w	Membership	Grant	Approved	Group_Finan	се		
	Authorizer Nan	ne	Role Nar	ne	Aut	h Level	Approval Date	Reason				Status		
	CORP \ Erin Manr	ning	Group Ov	wner	1		6/22/2009	Initial review				Approved		
14	Erin Manning	Allen Ca	arey	6/22/2009	9	Initial revie	w	Membership	Grant	Approved	Group_Finan	ce		
	Authorizer Nan	ne	Role Nar	ne	Aut	h Level	Approval Date	Reason				Status		
	CORP \ Erin Mann	nina	Group Ov	wner	1		6/22/2009	Initial review				Approved		



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DataPrivilege – Authorization Workflow





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Complete Self Service Governance Portal

Welcome, Erin Manning					ې	varonis
≜ Home	10 FAD	2 Heln 👢	Contacts About			
Welcome, Erin Manning					V,	varonis 🖣
🚖 Home	🥮 F.A.Q	? Help 💂	Contacts i About			- aronis
Directory Ov						onis [•]
•		🖗 F.A.Q 🛛 🖓 Help	💂 Contacts 🚺	About		
Summary	Directory Own				Statistics	
Pending Requests	Summary	Managed Directories Switch			Clationoo	010
Permission Requests		Search: Display Name	Display Path	× ? Explanation	Authorizers Auth Rules Automatic Rules Permissions Log/History Statistics	
Membership Request				Explanation	From: September 01, 2009 To: October 05, 2010 Type User Access	
✓ Management	Membership Requests		\\CORPF502\SHARE\FINANCE		Represents the distribution of events per user on the specified directory	
Directory Owner	▼ Management					ure
Group Owner	Directory Owner				12.45% 22%	
	Group Owner				26.01% 4.71%	ory
Search	> Search				6.02% 2.57%	
Reports	Reports				Enin Manning(CORP) Ann Schoenberger(CORP) 5.51+6.55% of events, 2 users	′ і і
					4 454 4 63% of events, 2 users 2 853, 28% of events, 3 users 2 15-2 85% of events, 2 users	
					2.13-2.36% of events, 2 users	
						i
					Display Name Event Count Erin Manning(CORP) 43801	
					Ann Schoenber	• •]
					Margaret Coakley(CORP) 8/21 Crystal Grove(CO <u>RP</u>) 6829	
		Add Edit Ren	nove		Allen Carev(CORP) 6774	
	LC	DQ			Run Print Export	
		Remove			Run Export Print	
1000						

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Risks, Controls & Regulations

High Risk Levels

- File System data is at great risk for loss, theft, and misuse
- Access configuration changes are untested

File System Control Gaps

- Many access controls are "loose," even broken
- No audit trail exists
- More than half of data has no known business owner

Regulatory Requirements

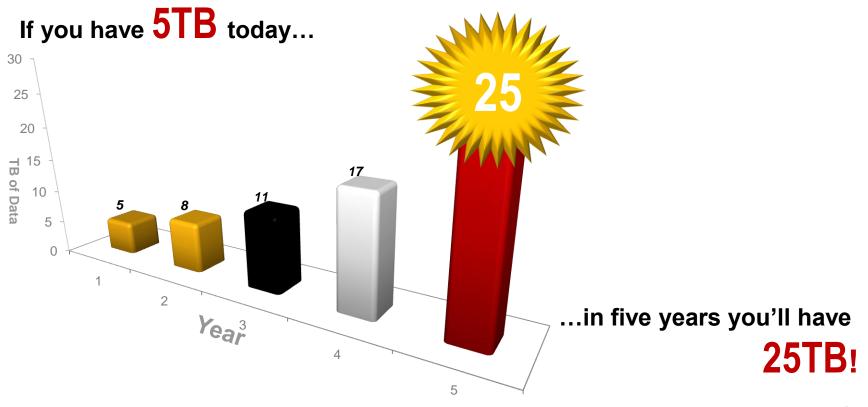
- HIPAA
- PCI-DSS
- Sarbanes Oxley





Your Data in 5 Years

Unstructured data is growing at 50% per year...



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Hit "Esc" to return to Main Menu

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Containers and Permissions

A single terabyte of data contains 50,000 folders 2500 of which are *unique* and need to be managed

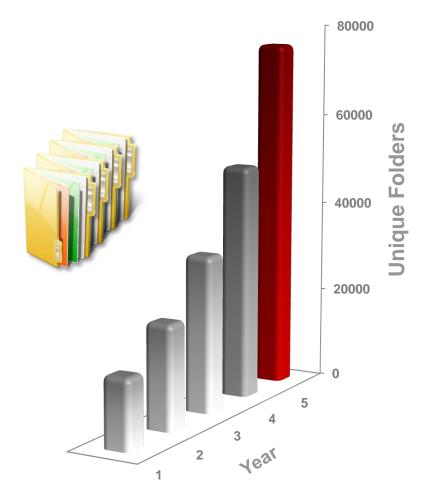


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Your Permissions in 5 Years



As the data grows, so grows the complexity

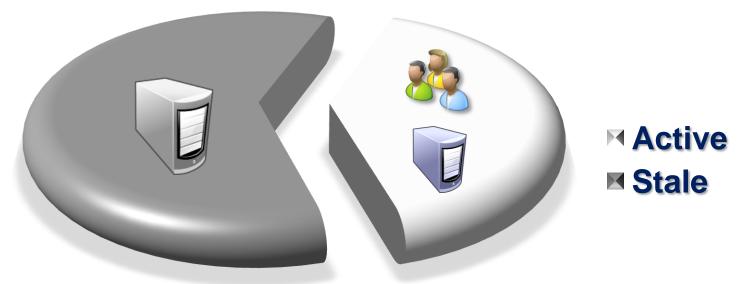
If you have **15,000** folders today...

...in five years you'll have over **75,000**



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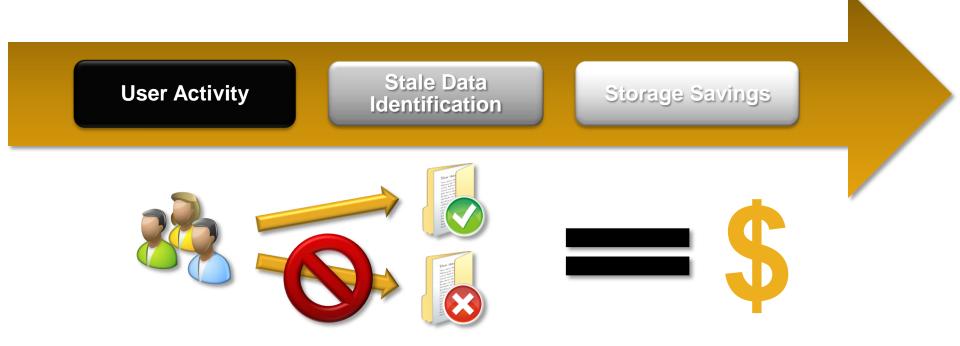
With 10 terabytes of data, 4-6 TB is likely stale and can be archived without impacting business activity



How much are you spending on storage?

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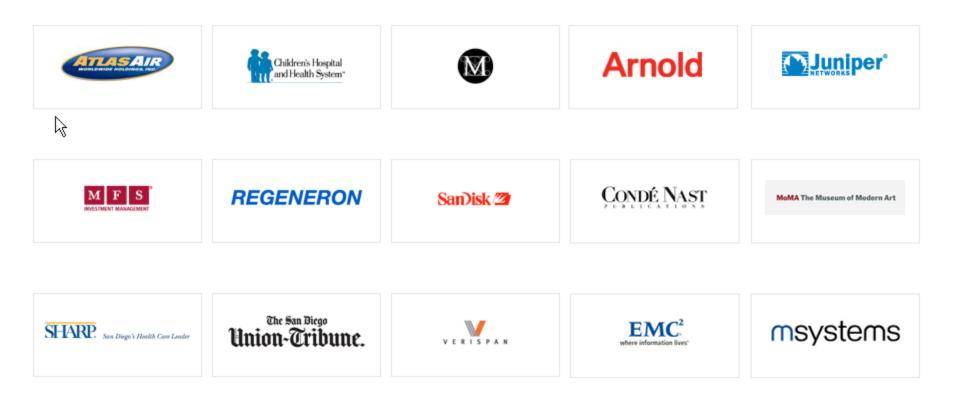


By analyzing *actual user activity*, Varonis can identify stale data which can be archived to less-expensive storage.

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Varonis Customers



Over 900 Customers & 3500 Installations...and growing!





Sandro Huber

Děkujeme za pozornost



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