HP BSA Server Automation

for the HP-UX, IBM AIX, Red Hat Enterprise Linux, Solaris, SUSE Linux Enterprise Server, VMware, and Windows® operating systems

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Reports

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1 Server Automation Reports

This document describes the Server Automation (SA) 9.0 reports that are distributed through the BSA Essentials Network.

These reports are designed for BSA Essentials 2.0, and are viewable in the BSA Essentials Client.

SA provides the following two report types:

SA General Reports

General reports about various SA features, such as Windows Patching, Virtualization, Deployment Automation, and installed SA Server Agents. These reports can be downloaded from the BSA Essentials Network using the bsae_sa_reports stream.

SA Compliance Reports

Reports that display the compliance state of your data center, such as overall server compliance status, overall compliance by policy, and specific compliance categories for features such as Application Configuration, Windows Patching, Audits, and Software Management. These reports can be downloaded from the BSA Essentials Network using the sar78_reports stream.

Windows Patching Reports

ROI: Servers Affected by Windows Patch Policy Updates

This report shows the number of servers with Windows Patch Policies attached that were affected by policy updates and were remediated.

For example, Microsoft Windows patches are made available on the second Tuesday of each month. SA Windows Patch Policies can be configured to automatically download new patches so they can be installed on specified servers.

SA automated patching provides return on investment by keeping all Windows Servers that are affected by new updates current and compliant with your Microsoft patch policy standards.



This report does not support negative numbers for input.

Parameters

- **Date Range**: Allows you to filter the range of dates during which selected Windows Patch Policy were updated.
- **Policy Name**: Name of all policies that were modified with updates during the date range specified.

- **Per Server Cost**: The value that you apply to indicate the cost of bringing servers into compliance with respect to patch policies. This meaning of this unit can be any value you wish it to be, such as \$, hours, and so on. (Negative numbers are not supported for this field.
- **Per Patch Cost**: The value that you apply to indicate the cost of installing one patch on a server. This meaning of this unit can be any value you wish it to be, such as \$, hours, and so on. (Negative numbers are not supported for this field.)

The Per Server Cost and Per Patch Cost parameters use the "Contains" operator, but is considered equivalent ("equals") to the value you enter in these fields.

Table

- Results are grouped by policies.
- A row is shown for each date a policy is modified (within the specified date range).
- The counts and costs associated with each policy change date to reflect servers affected and patches applied due to the policy change.
- The per cost values can be any numeric value in units defined by the user such as dollars, hours, and so on.
- Total values for Servers Affected represents each time that a server is affected by a patch policy update (not unique servers). In some cases, you might see a total count of more than one server marked as being affected, when in fact a single servers is updated twice with a patch policy update. For example, if your report showed the following values for Servers Affected:
 - Mar. 10: Affected Servers = 1
 - Feb. 10: Affected Servers = 1
 - Total: Affected Servers = 2

In this case it is possible the affected server in the Mar. 10 line item is the same server as the server that is counted in the Feb. 10 line item. In the total count 1 + 1 = 2, but the 2 servers are actually the same server counted twice. The reason the same server is affected by both Mar. 10 and Feb. 10 is because a patch applicable to the server was added to a policy in Feb. 10, and another applicable patch was added in on Mar. 10. So from an ROI perspective the server was affected twice, which is what the total count shows.

Figure 1 Windows Servers Affected by Patch Policy Updates

Windows Servers Affected By Patch Policy Updates

Generated on: 02-08-10 UTC

This report shows the number of servers with Windows Patch Policies attached that were affected by policy updates and were automatically remediated.

Parameters

Date BETWEEN 08-08-09 and 02-08-10

Policy Name /S ONE OF 'davidt - w2k3 test 1', 'rcai_downpour_PP1', 'Vendor Recommended Patch Policy for Windows 2000', 'Vendor Recommended Patch Policy for Windows 2008'

Per Server Cost CONTAINS '\$1.00'

Per Patch Cost CONTAINS '\$1.00'

Date Policy Modified	Servers Affected	Patches Applied	Server Cost	Patch Cost
davidt - w2k3 test 1				
Jan 13, 2010	1	0	1.00	0.00
Jan 12, 2010	1	1	1.00	1.00
rcai_downpour_PP1				
Jan 16, 2010	0	0	0.00	0.00
Jan 14, 2010	1	0	1.00	0.00
Jan 13, 2010	1	0	1.00	0.00
Vendor Recommended Patch Policy for Windows 2000				
Jan 14, 2010	0	0	0.00	0.00
Jan 10, 2010	0	0	0.00	0.00
Vendor Recommended Patch Policy for Windows 2008				
Jan 14, 2010	0	0	0.00	0.00
Jan 10, 2010	0	0	0.00	0.00
Totals:	4	1	\$ 4.00	\$ 1.00

Version 1.0

Time to Patch Policy Compliance

This report shows you how long it takes in average number of days for your Windows servers to become compliant after a Windows patch policy change.

When a change is made to a Windows patch policy (such as adding a patch), then the server or servers that the policy is attached to is considered non-compliant until the server is remediated to match the patch policy definition.

Using the date range parameters in this report, you can specify a time range and find out how long it takes for your windows servers to become compliant during any given time period after a Windows patch policy change is made.



The server counts do not include servers that are in scan needed or scan failed states

Parameters

- **Date Range**: Allows you to specify a begin and end date criteria. This filter includes both the begin and end dates and determines the range of policy changes to show in the results.
- **Patch Policy**: Allows you to specify the Windows patch policies you want to return in the report results. Selection criteria can be: Equals, Contains, Begins With, or Ends With. If you select Equals [Any Value], this implies all Windows patch policies are selected.



Table

- **Date Policy Modified**: Lists each patch policy select in the report parameters as well as each time the given policy was modified during the date range specified.
- **Servers Non-Compliant**: Indicates number of servers that were affected and made non-compliant after a patch policy change.
- **Servers Compliant**: Indicates number of servers that were affected and made compliant after a patch policy change.
- **Average Time to Compliance**: Average number of days (to 2 decimal places) between the time the policy was modified and when servers first became compliant.
- **Weighted Average**: Represents the average number of days to compliance for all servers that were affected patch policy changes for all selected policies in the report.

Figure 2 Time To Patch Policy Compliance (Windows)

Time to Patch Policy Compliance (Windows)

Generated on: 02-08-10 UTC

This report shows you how long it takes (average number of days) for your Windows servers to become compliant after a Windows patch policy change.

Parameters

Date BETWEEN 08-08-09 and 02-08-10 Policy Name CONTAINS 'davidt'

	Servers	Servers	Average Time to
Date Policy Modified	Non-Compliant	Compliant	Compliance (Days)
davidt - w2k3 test 1			
Jan 13, 2010	1	0	0.00
Jan 12, 2010	0	1	0.01
davidt - w2k3 test 2			
Feb 3, 2010	0	1	0.00
Feb 2, 2010	0	1	0.91
davidt - w2k3 test 3			
Feb 3, 2010	0	0	0.00
davidt - w2k3 test 4			
Feb 3, 2010	0	2	3.27
davidt - w2k3 test 5			
Feb 8, 2010	0	1	0.00
Weighted Average:			1.24 days

Version 1.0

Virtual Server Reports

This section describes the reports about your virtual server environment.

Virtualization Infrastructure Overview

This report compares managed virtual and physical servers, managed and unmanaged virtual servers and physical servers that are hypervisors and non-hypervisors.

Graphs

These three charts show the type and degree of virtualization across your entire environment.

- Number of Managed Virtual vs. Managed Physical Servers compares all the managed virtual servers with all the managed physical servers and shows the degree of virtualization across your entire virtualized environment (VMware, Hyper-V, Solaris and so forth).
- Number of Managed vs. Unmanaged Virtual Servers compares all managed virtual servers with all unmanaged virtual servers.
- Number of Hypervisor vs. Non-Hypervisor Physical Servers compares all managed physical servers that are hypervisors with all managed physical servers that are not hypervisors.

Tables

• The tables show the corresponding data from the pie charts.

Getting More Details

• Click on a section of any pie chart or on a link in any table to show a list of all the servers in that group.

Number of Managed Virtual vs. Managed Physical Servers



Number of Hypervisor vs. Non Hypervisor Physical Servers Data			
Туре	Number		
Hypervisor	12		
Non-Hypervisor	94		

Managed Virtual vs. Physical Servers Trend Data

This report shows the percent of managed virtual servers versus managed physical servers over a time period. It shows how the percent of each type of server is changing over time.

Graph

- The y axis is the percentage of each server type, virtual servers and physical servers.
- The x axis is the date.
- In Figure 4 below, approximately 10% of the managed servers are virtual servers and the remaining 90% are physical servers.

Table

• The table gives the number of virtual and physical servers for each date in the specified date range and time interval.

Getting More Details

• Click on a date in the table to display a list of all the servers on that date.

Figure 4 Managed Virtual vs. Physical Servers Trend Data



Managed Virtual vs. Physical Servers Trend Data

Date	Virtual Servers	Physical Servers
<u>3/10/10</u>	8	118
<u>3/3/10</u>	13	73
<u>2/24/10</u>	4	51
<u>2/17/10</u>	3	42

Virtual Servers Running and Not Running

This graph shows the number of virtual servers running and the number of virtual servers not running, over time. It is useful to determine which virtual servers are not being used and may be candidates for removal.

Graph

- The y axis is the number of servers.
- The x axis is the date when the measurement was taken.

Table

- The table lists the total number of servers in each category on each date in the specified interval.
- The total number of servers not running represents all the managed and unmanaged virtual servers that were powered off or not running on the specified date.
- The total number of running servers represents all the managed and unmanaged virtual servers that were powered on and running on the specified date.

Getting More Details

• Click on a data point of the graph or on a date in the table to display a list of all the virtual servers in that category on that date.





Date	Running	Not Running
<u>4/7/10</u>	31	32
<u>3/31/10</u>	31	30
<u>3/24/10</u>	79	78
<u>3/17/10</u>	75	51
<u>3/10/10</u>	40	61
<u>3/3/10</u>	69	56
2/24/10	37	39
<u>2/17/10</u>	19	16

All Virtual and Physical Servers

This report displays details about all your virtual and physical servers on the specified date. It can also display the server type, hypervisor or non-hypervisor, whether the server is managed or unmanaged and whether the server is running or not. Figure 6 below shows a partial example of this table.

Figure 6 Table Showing All Virtual and Physical Servers

All	Virtual and Physical Servers	
_		

Parameters		
Date:	03-11-10	Generated on: 03-10-10 UTC
All Virtual/Physical Servers:	'Physical Servers','Virtual Servers'	
Servers Type:	'Hypervisor'	
Servers Status:	'Managed'	
Virtual Servers State:	Any Value	

Physical Servers

Server Name	Status	Туре	IP Address	OS	Customer	Facility
k002.qa.opsware.com	Managed	Hypervisor	192.168.158.2	VMware ESX 4.0.0 build-164009	Not Assigned	RuSt
k003.hypervQA.local	Managed	Hypervisor	192.168.158.3	Windows NT 6.1 Buildnumber 7600	Not Assigned	EcRu
k038.qa.opsware.com	Managed	Hypervisor	192.168.158.38	VMware ESX 3.5.0 build-153875	Not Assigned	RuSt
k039.qa.opsware.com	Managed	Hypervisor	192.168.158.39	VMware ESXi 3.5.0 build-153875	Not Assigned	RuSt
k096.qa.opsware.com	Managed	Hypervisor	192.168.158.96	VMware ESXi 4.0.0 build-164009	Not Assigned	RuSt

Virtual Servers				
Server Name	Status	State	Technology	Hypervisor Name
Mihai-RHel5.3x86-64	Managed	Running	VMWare VM	m246.qa.opsware.com
Mihai-RHel5.3x86-64	Managed	Running	VMWare VM	192.168.160.246
jlMar9d	Managed	Others	Microsoft Hyper-V VM	n173.qa.opsware.com
kirkland	Managed	Running	VMWare VM	k096.qa.opsware.com
mNIC2	Managed	Running	VMWare VM	k178.qa.opsware.com
mircea-win2k-sp4	Managed	Running	VMWare VM	k096.qa.opsware.com
n132.qa.opsware.com	Managed	Others	Solaris Zone	m141.qa.opsware.com
n209_m044.qa.opsware.com	Managed	Others	Solaris Zone	m044.qa.opsware.com
Total:				8

Deployment Life Cycle Reports

This section describes the reports about your server deployments.

Server Deployments by Operating System

Table

- Server deployment counts are grouped by operating system and time period.
- The Total number represents the total number of servers deployed during the specified time period.

Graph

- The unit on the y-axis is the number of servers deployed during the specified time period.
- The counts are grouped by operating system.
- The x-axis is grouped by time period.

Figure 7 Server Deployments by Operating System

	Carrier Deployments by Oremtin	an Curatana		
arcn	Server Deployments by Operatin	ng System		
ease select item type 🛛 👻	This report provides a deployment trend history for the	servers in a specified Cust	tomer, Facility or Group, orga	nized by operating system and version.
	Date Range Between	Mon 10/05/2009	Tue 01/19/2010	Use Relative Dates
P Reports		Monthly		
Compliance	Customer Equals	[Any Value]		
🖨 💋 Deployment Life Cycle	Facility Equals	[Any Value]		-
😭 Devices By Type	Device Group Equals	[Any Value]		
Network Devices By Device Type	Run Drint Expect Schedule	1		
Servers By Operating System	Kun Phile Export Sciedule	1		
Servers By Architecture	Server Deployments by Oper	ating System		Tue Jan 19, 2010 11:51 PST
Server Deployments by Operating System	Server Deployments by Oper	ating system		
Server Deployment Return on Investment	Inventory of Server Deployments by Operatir	ng System (filtered by	Customer, Facility and/	/or Device Group)
Storage Reports	·····	5-,,		
(1) Dashboard				
Scheduled Reports				
Scheduled Reports	36 -			
	34			
	32			
	V 28 -			
	0 26			
	≥ 24 +			Operating System
	ο 22 -			i.1
			Red	Hat Enterprise Linux AS 3
	▶ 16		Red	Hat Enterprise Linux AS 4 X86
	<u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>		Sund	5 5 10
			Suff	Linux Enterprise Convex 10
			SUSE	Linux Enterprise Server 10
	6-		Unkn	iown
	4		Wind	ows Server 2003
	2+			
	0			
		.9/09	10	
	1013 1115	12/2 1/2		
	Date	2		
		12 C		
	Operating System		Deployme	ent Count
	Oct 19, 2009 11:59 PM		4	
	SuSE Linux Enterprise Server 10		16	
	AIX 6.1		10	
	Windows Server 2003		9	
				Total: 35
Reports	Nov 19, 2009 11:59 PM			
Daturned Search	Red Hat Enterprise Linux AS 3		3	
Advanced Search	SUSE Linux Enterprise Server 10		4	
	Keo Hat Enterprise Linux AS 4 X86_64		2	
Oneware Administration			1	
Opsware Administration	Windows Server 2003			
Opsware Administration	Unknown		1	Total: 11

Application Deployment Reports

This section describes the reports about Application Deployment activities performed in HP Server Automation. The following reports are available:



For more information about Application Deployment, refer to the *HP Server Automation* Application Deployment User Guide.

Application Deployment Activity Reports

This report provides a list of all Application Deployment actions that are performed within a specified time range along with the details related to these actions.

Parameters

You can filter an Application Deployment Activity using any combination of the following:

- **Date Range**: Range of dates during which the Application Deployment activities were performed.
- Job Type: Deployment, undeployment, or rollback.
- Application: Specific application (or applications) deployed.
- **Environment**: Application Deployment environment, such as QA or Production. The Application Deployment environments are mirrored as SA device groups.

Table

- The report is grouped by Application and subgrouped by releases of that Application.
- Each row in the report describes an action, which can be a deployment, an undeployment, or a rollback.
- The Status column indicates whether the action succeeded or failed.
- The Version column shows the version of the application/release that was deployed, undeployed, or rolled back.
- The Environment column indicates which environment the application was deployed to, undeployed from, or rolled back from.
- The Target column shows the target of the action. A target is a group of one or more servers to which the application is deployed to, undeployed from, or rolled back from.
- The Job Type column indicates whether the action was a deployment, an undeployment, or a rollback.

- The User column shows the HP SA login ID of the user who initiated the operation.
- The Start Date and End Date columns show when the job started and when it completed.
- The Duration column gives the total elapsed time for the job.

Figure 8 Application Deployment Activity Report

A A	plication	n Deployme	nt Activity					
'his repo	rt provides a	list of all application	n deployments th	at have been per	rformed with	in a specified time ran	nge with details about each d	eployment.
	Date R	ange Between	× S	at 11/28/2009	F	ri 05/28/2010	Use Relative Dates	
	Job	Type Equals	V D	eployment				
	Applic	ation Contains	~					
	Environ	ment Equals	× Q	A				
Run	Print	Export	Schedule					
				_				
Appli	ication	Deployme	ent Activi	ty				
						Generated	on: Fri May 28 15:08:23	2010 PDT
bic ro	nort provid	dec a list of all	application	lanloumente	that have	been performe	d within a specified tir	ne range
with de	tails abou	t each deploy	ment.	reproyments	that have	e been penonne	o within a specified un	ne range
aran	ators							
Da	te Rance			11.27.09 94	od 05.29	10		
La	h Tuno:			Doploumon	4			
30	o Type:			Deploymen	n.			
Ap	plication:			10.11				
En	vironmer	nt:		'QA'				
Applie	cation:	1130NewA	pp					
Relea	se:	Initial Release	•					
Status	Version	Environment	Target	Job Type	User	Start Date	End Date	Duration
¢	1	QA	Sample Target	Deployment	kmakarla	Nov 30, 2009 5:26	8 PM Nov 30, 2009 5:53 PM	1 26m:58s
Applic	cation:	AppScena	rio1					
Relea	se:	First Release						
Status	Version	Environment	Target	Job Type	User	Start Date	End Date	Duration
	1	QA	KQATarget	Deployment	kmakarla	Jan 19, 2010 11:3	3 AM Jan 19, 2010 11:37 A	M 4m;18s
Applic	cation:	Jie's App 2	2					
Relea	se:	Initial Release)					
Statue	Vereion	Environment	Tarnet	Job Type	Hear	Start Date	End Date	Duration
status	VI.03	QA	leiTestTarget	Deployment	ihe	Apr 23, 2010 3:15	PM Apr 23 2010 3:19 PM	3m:29s
	V1.04	QA	leTestTarget	Deployment	jhe	Apr 23, 2010 2:55	PM Apr 23, 2010 2:58 PM	2m:30s
Applic	cation:	KTest1130						
Relea	se:	Test Release						
1,0100		Endersmant	Tarnet	Job Type	User	Start Date	End Date	Duration
Status	Version	P IIVII OFFICIATION			the second se			
Status	Version 2	CA	Test	Deployment	kmakarla	Nov 30, 2009 3:47	7 PM Nov 30, 2009 3:48 PL	1 1m7s

Getting More Details

Further drill-down is not available in this report.

ROI Reports

The ROI reports enable you to see the Return On Investment (ROI) that you are realizing by using Application Deployment. You can generate a report grouped by Application or by Environment.

You can assign an ROI value (per target machine) to a release in the Application Deployment Manager. The ROI for an application is the sum of this ROI value for all targets to which any release of this application has been successfully deployed.

Parameters for ROI by Application

You can filter an ROI by Application report using any combination of the following:

- **Date**: End-date for the 12-month period for which ROI is reported.
- **Application**: Specific application (or applications) deployed.

Parameters for ROI by Environment

You can filter an ROI by Environment report using any combination of the following:

- Date: End-date for the 12-month period for which ROI is reported.
- **Environment**: Application Deployment environment, such as QA or Production. The Application Deployment environments are mirrored as SA device groups.

Tables

Each row in the table describes the ROI realized during each month of the specified time period, and a total ROI for the entire period.

	Date E	quals		Y	Fri 05/2	8/2010							
Applic	ation C	ontains		~									
Run Print	E	xport	S	chedule									
ROI By Appl	icati	on											
2							Gener	ated or	n: Fri M	Aay 28	14:47:	28 201	0 PDT
his report provid	les RO	OI data	, grou	ped by	appli	cation,	base	d on d	eploy	ments	perfor	med v	vithin
2 months prior	o a se	lected	date.										
arameters													
Date:			05	-28-10	1								
Application													
Application.			1000 00000			and the second							
PPLICATION	JUN 09	JUL 09	AUG 09	SEP 09	OCT 09	NOV 09	DEC 09	JAN 10	FEB 10	MAR 10	APR 10	MAY 10	Total
ppScenario1	0	0	0	0	0	0	0	0	0	0	0	0	0
e's App 2	0	0	0	0	0	0	0	0	0	0	0	0	0
oe App	0	0	0	0	0	0	36	0	0	0	0	0	36
oe Windows oplication	0	0	0	0	0	0	20	0	0	0	0	0	20
ohn's App	0	0	0	0	0	0	0	0	0	0	0	0	0
AppTest	0	0	0	0	0	0	0	0	0	0	0	0	0
Test1130	0	0	0	0	0	0	0	0	0	0	0	0	0
iranApp	0	0	0	0	0	0	0	0	0	0	0	0	0
iranApp0104	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	100	0	0	0	0	0	100
GranDemoApp						0		0	0	0	0	0	0
(iranDemoApp (iranTestApp	0	0	0	0	0	0	0						
GranDemoApp GranTestApp GranTestApp1202	0	0	0	0	0	0	0	0	0	0	0	0	0
KiranDemoApp KiranTestApp KiranTestApp1202 KiranTestApplication	0 0 0	0	0 0 0 0	0	0	0	0	0	0	0	0	0	0
KiranDemoApp KiranTestApp KiranTestApp1202 KiranTestApplication IvNewApp1202	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0	0	0	0 0 0 0 0	0 0 0 0	0	0 0 0	0	0	0
CiranDemoApp CiranTestApp CiranTestApp1202 CiranTestApplication IvNewApp1202 IvUnixApp	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0
iranDemoApp iranTestApp iranTestApp1202 iranTestApplication IvNewApp1202 IvUnixApp atya App CUP026	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 276	0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 276
iranDemoApp iranTestApp iranTestApp1202 iranTestApplication IvNewApp1202 IvUnixApp atva App CUP026 atva CUP027 App	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 276 10	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 276 10
iranDemoApp iranTestApp iranTestApp1202 iranTestApplication ivNewApp1202 ivUnixApp atva App CUP026 atva CUP027 App atva RH4 App	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 276 10	0 0 0 0 0 0 0	0 0 0 0 0 0 23	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 276 10 23
iranDemoApp iranTestApp iranTestApp1202 iranTestApplication ivNewApp1202 ivUnixApp atva App CUP026 atva CUP027 App atva RH4 App atva TTP1	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 23 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 276 10 23 0
iranDemoApp iranTestApp iranTestApp1202 iranTestApplication IvNewApp1202 IvUnixApp atva App CUP026 atva CUP027 App atva RH4 App atva TTP1 atva TTP2	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 23 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 23 0
CranDemoApp CranTestApp CranTestApp1202 GranTestApplication INNEWApp1202 IVUNIXApp atva App CUP026 atva CUP027 App atva RH4 App atva TTP1 atva TTP2 atva TTP2	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 23 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 23 0 0
CiranDemoApp CiranTestApp CiranTestApp1202 CiranTestApplication IvNewApp1202 IvUnixApp Satva App CUP026 Satva CUP027 App Satva CUP027 App Satva RH4 App Satva TTP1 Satva TTP1 Satva TTP2 Satva TTP2 Satva TTP3	0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 23 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 276 10 23 0 0 0 0

Figure 9 Application Deployment ROI by Application Report

This report provides R													
	Date Eq	uals		Fri	05/28/20	10	V						
Environ	ment Co	Intaine					<u> </u>				-		
	ment co	A LIGHTS			_						-		
Run Print	Ex	port	Sche	edule	J								
ROI By Env	ironm	ent											
							Ger	nerated	on: Fri	May 28	15:01:2	8 2010 F	PDT
12 months prior Parameters	to a sel	ected o	date.	8-10			23						
12 months prior Parameters Date: Environmen ENVIRONMENT	to a sel	JUL	05-20 " AUG	8-10 SEP	OCT	NOV	DEC	JAN 10	FEB	MAR	APR	MAY	Tota
12 months prior Parameters Date: Environmen ENVIRONMENT	nt: JUN 09	JUL 09	05-28 " AUG 09	8-10 SEP 09	OCT 09	NOV 09	DEC 09	JAN 10	FEB 10	MAR 10	APR 10	MAY 10	Tota
12 months prior Parameters Date: Environmen ENVIRONMENT Development	nt: JUN 09	JUL 09	05-28 " AUG 09 0	8-10 SEP 09 0	OCT 09 0	NOV 09	DEC 09 0	JAN 10 46	FEB 10	MAR 10	APR 10 0	MAY 10	Tota 46
12 months prior Parameters Date: Environmer ENVIRONMENT Development Lobels Resolution	nt: JUN 09 0	UL 09 0 0	05-28 " AUG 09 0	8-10 SEP 09 0	OCT 09 0	NOV 09 0	DEC 09 0 56	JAN 10 46 0	FEB 10 0	MAR 10 0	APR 10 0	MAY 10 0	Tota 46 56
12 months prior Parameters Date: Environmen ENVIRONMENT Development John's Blosphere Preduction	nt: JUN 09 0 0	UL 09 0 0 0	05-28 " AUG 09 0 0	8-10 SEP 09 0 0 0	OCT 09 0 0	NOV 09 0 0 0	DEC 09 0 56 0	JAN 10 46 0 0	FEB 10 0 0	MAR 10 0 0 0	APR 10 0 0	MAY 10 0 0 0	Tota 46 56 0
12 months prior Parameters Date: Environme ENVIRONMENT Development loe Env lohn's Blosphere Production Development	nt: JUN 09 0 0 0	UL 09 0 0 0 0 0	05-28 " AUG 09 0 0 0 0	8-10 SEP 09 0 0 0 0	OCT 09 0 0 0	NOV 09 0 0 0 0 0 0	DEC 09 0 56 0 0	JAN 10 46 0 0 126	FEB 10 0 0 24	MAR 10 0 0 23 0	APR 10 0 0 0 0	MAY 10 0 0 0 0	Tota 46 56 0 173 522
12 months prior Parameters Date: Environme ENVIRONMENT Development loc Env lohn's Blosphere Production 2A Satus Env	to a sel nt: 0 0 0 0 0 0	UL 09 0 0 0 0 0 0 0 0 0	05-28 " AUG 09 0 0 0 0 0 0	8-10 SEP 09 0 0 0 0 0 0	OCT 09 0 0 0 0 0	NOV 09 0 0 0 0 28 0	DEC 09 0 56 0 0 448 40	JAN 10 46 0 0 126 46	FEB 10 0 0 24 0 0	MAR 10 0 0 23 0 0	APR 10 0 0 0 0 0	MAY 10 0 0 0 0 0	Tota 46 56 0 173 522
12 months prior Parameters Date: Environme ENVIRONMENT Development loe Env Iohn's Biosphere Production 2A Satva Env Test Env Test Env	to a sel nt: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UL 09 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05-28 " AUG 09 0 0 0 0 0 0 0 0	8-10 SEP 09 0 0 0 0 0 0 0 0 0 0 0 0 0	OCT 09 0 0 0 0 0 0 0 0	NOV 09 0 0 0 0 0 28 0 0	DEC 09 0 56 0 0 448 40 0	JAN 10 46 0 0 126 46 100 0	FEB 10 0 0 24 0 0 0	MAR 10 0 0 23 0 0 0	APR 10 0 0 0 0 0 0 0	MAY 10 0 0 0 0 0 0 0 0	Tota 46 56 0 173 522 140 0
12 months prior Parameters Date: Environmen ENVIRONMENT Development Loe Env John's Blosphere Production QA Sativa Env Test Env Woone Env	to a sel nt: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	UL 09 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05-28 " AUG 09 0 0 0 0 0 0 0 0 0 0 0 0	8-10 SEP 09 0 0 0 0 0 0 0 0 0 0 0 0 0	OCT 09 0 0 0 0 0 0 0 0 0 0 0 0	NOV 09 0 0 0 0 0 28 0 0 0 0 0	DEC 09 0 56 0 0 448 40 0 76	JAN 10 46 0 0 126 46 100 0 0	FEB 10 0 0 24 0 0 0 0 0	MAR 10 0 0 23 0 0 0 0 0 0	APR 10 0 0 0 0 0 0 0 0 0 0 0 0	MAY 10 0 0 0 0 0 0 0 0 0 0 0	Tota 46 56 0 173 522 140 0 76

Figure 10 Application Deployment ROI by Environment Report

Getting More Details

- Click an Application name in the ROI by Application report to drill-down to the Application Deployment Activity report for that Application.
- Click an Environment name in the ROI by Environment report to drill-down to the Application Deployment Activity report for that Environment.

Deployment Success Reports

These reports enable you to view data that describes how often Application Deployments succeed. For each month in the selected date range, the report shows you the number of deployment jobs that were attempted and the number that were successful. The report also represents this information as a percentage for each month in the selected date range. Undeployment and rollback jobs are not included in the calculations.

Parameters for Deployment Success by Application

You can filter a Deployment Success by Application report using any combination of the following:

- **Date**: End-date for the 12-month period for which the data is reported.
- Application: Specific application (or applications) deployed.
- Threshold (%): Success rate is shown in red if lower than this threshold.

Parameters for Deployment Success by Environment

You can filter a Deployment Success by Environment report using any combination of the following:

- **Date**: End-date for the 12-month period for which the data is reported.
- **Environment**: Application Deployment environment, such as QA or Production. The Application Deployment environments are mirrored as SA device groups.
- Threshold (%): Success rate is shown in red if lower than this threshold.

Table

Each row in the table describes the success data for an Environment or an Application. The success data is reported for each month in the 12-month window prior to the Date specified and for the entire period

his report provides s	uccess d	ata, gr	ouped b	y applica	tions, for	deployme	nts perform	ned within	12 month	s prior to	a selecte	ed date.	
	Date	Focuale			Eri 05	/28/2010							
	-	C			11100	20/20 20						1	
Appl	cation	Contair	15	~	Kiran							1	
Thresho	ld (%)	Less th	an	M	10								
Run Print	E	Export.		Schedu	le								
Deploymen	t Su	cces	ss B	у Ар	plica	tion							
2.6 0.2%				201 8479				54	Generat	ed on: F	n Mav	28 15 32	32 2010 PC
					and human	and the second	ting to	- dealers				hin 40 m	and the second
his report provi	des su	ucces	s data	a, grou	ped by	applica	tions, to	r deploy	ments	perform	ned wit	thin 12 m	nonths pric
o a selected da	ite.												
arameters			82		100								
Date:			0	5-28-1	10								
Application	:		1	Kiran'									
Threshold	(9/1+			0									
Threshold	1/0].		0	U									
PPLICATION	JUN	JUL	AUG	SEP	OCT	NOV 09	DEC 09	JAN 10	FEB	MAR	APR	MAY 10	Total
	1000	00	09	09	09				40		40		
	09	05			~~				10	10	10		
GranApp	09	03				100.00%		-	10	10	10		100.00%
GranApp GranApp0104	09	03				100.00%		100.00%	10	10	10	100.00%	100.00%
GranApp GranApp0104 GranDemoApp	09	03				100.00%	66.67%	100.00%	10	10	10	100.00%	100.00% 100.00% 66.67%
GranApp GranApp0104 GranDemoApp GranMvApp1204	09	05				100.00%	66.67% 0.00%	100.00%	10	10	10	100.00%	100.00% 100.00% 66.67% 0.00%
GranApp GranApp0104 GranDemoApp GranN/vApp1204 GranTestApp	09	03				100.00%	66.67% 0.00% 100.00%	100.00%	10	10		100.00%	100.00% 100.00% 66.67% 0.00% 100.00%
CranApp CranApp0104 CranDemoApp CranDemoApp CranTestApp CranTestApp1202	09	0.5				100.00%	66.67% 0.00% 100.00% 100.00%	100.00%	10	10		100.00%	100.00% 100.00% 66.67% 0.00% 100.00% 100.00%
SranApp SranApp0104 SranDemoApp GranIvApp1204 SranTestApp SranTestApp1202 SranTestAppIcation	09	03				100.00%	66.67% 0.00% 100.00% 100.00%	100.00%	66.67%	66.67%		100.00%	100.00% 100.00% 66.67% 0.00% 100.00% 100.00% 75.00%
SranApp SranApp0104 SranDemoApp SranMvApp1204 SranTestApp SranTestApp1202 SranTestAppIcation otal	09	03				100.00%	66.67% 0.00% 100.00% 100.00% 100.00% 75.00%	100.00%	66.67% 66.67%	10 66.67% 68.67%		100.00%	100.00% 100.00% 66.67% 0.00% 100.00% 100.00% 75.00% 77.78%
CranApp CranApp0104 CranDemoApp CranTestApp CranTestApp1202 CranTestApp1202 CranTestApp1cation Total	09					100.00%	66.67% 0.00% 100.00% 100.00% 100.00% 75.00%	100.00%	66.67% 66.67%	10 66.67% 68.67%		100.00%	100.00% 100.00% 66.67% 100.00% 100.00% 75.00% 77.78%
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GranApp GranApp0104 GranDemoApp GranMyApp1204 GranTestApp GranTestApp1202 GranTestApp1202 GranTestApp1202 GranTestApp1202 GranTestApp1202 GranTestApp1202	09 npts JUN	JUL	AUG	SEP	OCT	100.00% 100.00% NOV	66.67% 0.00% 100.00% 100.00% 100.00% 75.00%	100.00%	10 66.67% 66.67% FEB	10 66.67% 66.67% 86.67%	APR	100.00% 100.00% MAY	100.00% 100.00% 66.67% 0.00% 100.00% 100.00% 75.00% 77.78% Total
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iranApp iranApp0104 iranDemoApp iranMyApp1204 iranTestApp iranTestApp1202 iranTestApp1202 iranTestApploation otal Success / Atter IPPLICATION iranApp iranApp	npts JUN 09	JUL 09	AUG 09	SEP 09	OCT 09	100.00% 100.00% 100.00% NOV 09 1/1	66.67% 0.00% 100.00% 100.00% 100.00% 75.00%	100.00% 100.00% JAN 10	66.67% 66.67% FEB 10	10 66.67% 66.67% MAR 10	APR 10	100.00% 100.00% MAY 10	100.00% 100.00% 66.67% 0.00% 100.00% 100.00% 75.00% 77.78% Total 1/1 2/3
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SranApp SranApp0104 SranDemoApp SranItyApp1204 SranTestApp1202 SranTestApp1202 Success / Atter Success / Atter Success / Atter Success / StranApp0104 StranApp0104 StranApp1204 StranItyApp1204 StranItyApp1204	npts JUN 09	JUL 09	AUG 09	SEP 09	OCT 09	100.00%	66.67% 0.00% 100.00% 100.00% 100.00% 75.00% DEC 09 2/3 0/1 1/1	100.00% 100.00% JAN 10 2/2	66.67% 66.67% FEB 10	10 66.67% 88.87% MAR 10	APR 10	100.00% 100.00% 100.00%	100.00% 100.00% 66.67% 0.00% 100.00% 75.00% 77.78% Total 1/1 3/3 2/3 0/1
SranApp SranApp0104 SranDemoApp SranDemoApp SranTestApp1204 GranTestApp1202 GranTestApp1202 GranTestApp1202 Success / Atter APPLICATION SranApp0104 GranApp0104 GranDemoApp GranTestApp1204 GranTestApp1202	npts JUN 09	JUL 09	AUG 09	SEP 09	OCT 09	100.00%	66.67% 0.00% 100.00% 100.00% 100.00% 75.00% DEC 09 2/3 0/1 1/1 1/1	100.00% 100.00% JAN 10 2/2	66.67% 66.67% FEB 10	10 66.67% 88.67% MAR 10	APR 10	100.00% 100.00% 100.00%	100.00% 100.00% 66.67% 0.00% 100.00% 100.00% 75.00% 77.78% Total 1/1 3/3 2/3 0/1 1/1
SranApp SranApp0104 SranDemoApp SranItyApp1204 SranTestApp1202 GranTestApp1202 SranTestApp1202 Success / Atter APPLICATION StranApp0104 StranApp0104 StranDemoApp StranTestApp1202 StranTestApp1202 StranTestApp1202	npts JUN 09	JUL 09	AUG 09	SEP 09	OCT 09	100.00%	66.67% 0.00% 100.00% 100.00% 100.00% 75.00% DEC 09 2/3 0/1 1/1 1/1 2/2	100.00% 100.00% JAN 10 2/2	66.67% 66.67% FEB 10	10 66.67% 68.67% MAR 10	APR 10	100.00% 100.00% 100.00%	100.00% 100.00% 66.67% 0.00% 100.00% 100.00% 75.00% 77.78% Total 1/1 3/3 2/3 0/1 1/1 6/8

Figure 11 Deployment Success by Application Report

Deployme	nt Su	ccess E	sy En	viron	ment								
This report provides s	uccess da	ata, groupe	d by en	vironmen	ts, for dep	ployments	performe	d within 12	months pr	ior to a s	elected di	ate.	
	Date	Equals		Y Fr	i 05/28/20	010							
Enviro	nment	Contains		~									
Thresho	Id (%)	ess than		v 10)						1		
Dun Drint		umort	C Ced	ad da									
Kun Princ		хрог	30	eouem									
Deploymen	t Suc	cess	By E	Invir	onme	ent							
								Generat	ed on Fr	i May 2	8 15-39	55 2010	POT
								General	eu un. Ti	i may z	0 10.00		
This report prov	idee ei	iccocc d	ata a	nounad	by one	ironma	nte for	denlour	ante no	forme	dwithin	12 mai	athe
prior to a select	ed date	iccess u	ala, g	louped	by env	ronne	nts, ior	depioyn	ients pe	nome	u within	1 12 110	IUIS
	ou ouro												
arameters													
Date:			05-2	8-10									
Easterne .				0-10									
Environme	nt:												
Threshold	(%):		10										
ENVIRONMENT	JUN 09	JUL /	AUG 09	SEP 09	OCT 09	NOV 09	DEC 09	JAN 10	FEB 10	MAR 10	APR 10	MAY 10	Total
Development							0.00%	88.89%					80.00%
oe Env							83.33%		-		-		83.33%
ohn's Biosphere											86.67%	100.00%	88.57%
Production								64.00%	100.00%	66.67%			70.27%
<u>2A</u>						57.89%	74.07%	90.91%	33.33%	50.00%	85.71%	100.00%	74.16%
Satva Env							66.67%	42.86%					53.85%
(est Env								100.00%				100.00%	100.00
Nong Env			_				100.00%						100.00
otal						57.89%	75.00%	72.22%	66.67%	60.00%	86.49%	100.00%	76.14%
Success / Atter	mpts												
ENVIRONMENT	JUN 09	JUL 09	AUG 09	SEP 09	OCT 09	NOV 09	DEC 09	JAN 10	FEB 10	MAR 10	APR 10	MAY 10	Total
Development	1						0/1	8/9					8/10
oe Env							5/6						5/6
ohn's Biosohere											26/30	5/5	31/35
A CONTRACTOR OF A CONTRACTOR OFONTO OFONTO OFONTA CONTRACTOR O						1		16/25	6/6	4/8			26/37
Production	-					11/19	20/27	10/11	2/6	2/4	6/7	15/15	66/86
Production													00108
Production QA Satva Env							4/6	3/7					7/13
Production 2A Satva Env Test Env							4/6	3/7 2/2				1/1	7/13

Figure 12 Deployment Success by Environment Report

Getting More Details

- Click an Application name in the Deployment Success by Application report to drill-down to the Application Deployment Activity report for that Application.
- Click an Environment name in the Deployment Success by Environment report to drill-down to the Application Deployment Activity report for that Environment.

Time to Production Reports

The Time To Production reports enable you to see how long it takes for your applications to work their way through the application lifecycle. For each release of an application, the report shows how long it took for the application to reach the last stage in the application lifecycle (typically the Production environment).

The time to production for a given release is calculated as the time from the creation of the first version of a release to the time when the application is first deployed successfully into the final stage of the lifecycle. If the application is rolled back from the last lifecycle stage, then the application is not considered to have been successfully deployed.

Parameters

You can filter a Time to Production report by any combination of the following parameters:

- **Date Range**: Range of dates during which all applications that were successfully deployed to the Production environment will be counted.
- Application: Specific application (or applications) deployed.
- **Stability Window (Days)**: Number of days that the application must remain deployed in the final environment in the lifecycle (typically Production) in order to be considered a successful release. If the application is rolled back within this window, the release is not considered to be "in production."
- **Threshold** (**Days**): Time to production is shown in red if greater than this threshold. In other words, applications that took longer than this number of days to reach Production are shown in red.

Table

The report is grouped by Application and subgrouped by release.

Figure 13 Time To Production Report

📁 Time To Prod	luction				
his report shows the elap typically production). Final veriod a release must mee	sed time for releases to I stage deployments wh t in production for deplo	progress from creatio ich are rolled back are yment to be considere	n (first version created) not included in the resul d successful.	to the final stage in the stability windo	neir lifecyde w is a waiting
Date Range	Between	Sat 11/28/2009	Fri 05/28/2010) 🔻 🗸 Use	Relative Dates
Application	Contains 🗸				7
tability Window (Days)	Less than	7			1
Threshold (Days)	Greater than	40			1
Run Print	Export Sch	edule			
Time To Brod	uction				1
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Getting More Details

There is no drill-down available in this report.

2 Server Automation Compliance Reports

This section described the current set of Server Automation (SA) compliance reports.

Summary of Compliance by Policy

Graph

- The unit on the y-axis is the sum of server compliance status counts with respect to policy/ policy instances attached for each policy type.
- The counts are not a count of unique servers attached across all policies. For example, a server could be attached to more than one policy and that server could be non-compliant for each of the policy and thus will be counted multiple times.
- The x-axis is categorized by policy type.

Table

- Policies are grouped by policy type, with the name of each policy listed.
- A policy name can be a duplicate across policy types. For example, an audit policy can have the name 'P1' and similarly, a software policy can have the name 'P1'.
- A policy cannot have duplicate name within a policy type.
- The value in the 'Total' column represents total numbers of unique servers that are attached to individual policies with exception of 'Application Configuration' instance, where a single server can have multiple instances of same 'Application Configuration'.
- Counts reflect current managed/active servers only.

Drill-Down

- Click the policy name in the report to drill-down to its full details report. This allows you to see a breakdown of selected policy and items with in by their compliance status, for each of the servers to which the policy is attached.
- Report parameter selection criteria's are maintained and would be propagated & applied to the drill-down report for the selected policy name.
- Drill-down report is displayed with-in the context and frame of the 'Summary Report', allowing user to navigate back.



Figure 1 Summary of Compliance By Policy

Summary of Compliance by Server

Graph

- The unit on the y-axis is number of servers that a given policy is attached to. Count is the sum of policy compliance status for each of the policies that are attached to a server by their policy type.
- The counts are not a count of unique policy instances that are attached to the servers. For example, a policy could be attached to more than one server and that policy could be non-compliant for more than that one and thus will be counted multiple times.
- The x-axis is categorized by policy type.

Table

- The value in the 'Total' column represents total numbers of unique policies instances that are attached to a given server.
- Servers are grouped by the types of policies that are being attached i.e. policy type, with the name of each server listed.
- Server Name cannot be duplicate within a policy type.
- Server name can be repeated across policy types. For example, a server S1 can be attached to an audit Policy 'A1' and software policy 'SP1', S1 would be listed both under audit policy type as well as software policy type.
- Counts reflect current managed/active servers only.

Drill-Down

- Click the server name in the report to drill-down to its full details report. This allows you to see a breakdown of selected server by its compliance status for each of the policies and items with in the policies that attached.
- Report parameter selection criteria's are maintained and would be propagated & applied to the drill-down report for the selected server name.
- Drill-down report is displayed with-in the context and frame of the 'Summary Report', allowing user to navigate back.



Figure 2 Summary of Compliance By Server

Software Compliance by Policy

Summary

- Compliant Policies: Count of compliant selected policies / Total number of selected policies that are attached to the servers.
- Compliant Items: Count of unique compliant items across all selected policies / Total number of unique items across all selected policies that are attached to the servers.
- Compliant Severs: Count of unique compliant servers / Total number of unique servers.
- Counts reflect current managed/active servers only.

Table

- A software policy can be attached to either a device group or directly to a server. When a policy is attached to device group, only servers with matching platform are reported
- Table is primarily grouped by policies. Each policy has compliance counts for each of its items and servers that are attached to it.
- Each Item is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Software Policy P1, has item, Item1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Item1 is non-compliant. Since Item1 is part of software policy P1, P1 is also non-compliant with respect to server.
- Software policies that have SMO (Server Module Objects) as items are not reported.
- Item Name will be displayed as a combination of concrete Item Type for unit, such as ZIP, MSI, RPM etc, and AppConfig_Instance for Application Configuration instances, along with their names.
- When a required / mandated software item exists on a server is considered to be compliant; however, a required item version may not exist on a server but is considered compliant, when a newer RPM version is installed on the server, and older version is listed in the model. This aberration is marked with '*' next to the server and a footnote for the same is provided in the report.
- A server is considered 'compliant' even if the policy that is attached to it is empty. However, no item information is displayed as there are no details to report on. Similarly, 'On Server' field is marked 'Unknown' for lack of details.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.



Figure 3 Software Compliance By Policy

Software Compliance by Server

Summary

- Compliant: Total number of compliant servers.
- Non-Compliant: Total number of non-complaint servers. A server is considered to be non compliant when one or more of the policies or items with in those policies that are attached to are non-compliant.
- Scan Needed: Total number of servers that are in need of scan. A server is in scan needed state when one of more of the policies that are attached to has been modified and in order to determine the server compliance, the server needs to be scanned.
- Counts reflect current managed/active servers only.

Table

- A software policy can be attached to either a device group or directly to a server. When a policy is attached to device group, only servers with matching platform are reported.
- Table is primarily grouped by servers. Each server has compliance counts on each of the software policies that are attached.
- Each Item is further grouped with in a policy to give granular compliance details at this level. Server compliance status is rolled-up or bubbled up from this level. For example, Software Policy P1, has item, Item1 and is compliant for server S1, similarly another software policy P2, has item, Item2 and is non-compliant on server S1. Net server compliance status is non-compliant because Policy 1 is compliant, where as Policy 2 is non-compliant.
- Software policies that have SMO (Server Module Objects) as items are not reported.
- Item Name will be displayed as a combination of concrete Item Type for unit, such as ZIP, MSI, RPM etc, and AppConfig_Instance for Application Configuration instances, along with their names.
- When a required / mandated software item exists on a server is considered to be compliant; however, a required item version may not exist on a server but is considered compliant, when a newer RPM version is installed on the server, and older version is listed in the model. This aberration is marked with '*' next to the server and a footnote for the same is provided in the report.
- A server is considered 'compliant' even if the policy that is attached to it is empty. However, no item information is displayed as there are no details to report on. Similarly, 'On Server' field is marked 'Unknown' for lack of details.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.



Figure 4 Software Compliance By Server

App Config Compliance by Policy

Summary

- Compliant Policies: Count of compliant selected policies / Total number of selected policies that are attached to the servers.
- Compliant Config Items: Count of unique compliant configuration items across all selected policies / Total number of unique configuration items across all selected policies that are attached to the servers.
- Compliant Severs: Count of unique compliant servers / Total number of unique servers.
- Counts reflect current managed/active servers only.

Table

- An application configuration policy can be attached to either a device group or directly to a server. When a policy is attached to device group, a scan is needed in order for the system to recognize the server / policy attachment. Also, only servers with matching platform are reported
- Table is primarily grouped by policies. Each policy has compliance counts for each of its items and servers that are attached to it.
- Each Item is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, App Config Policy P1 is attached to Server S1 & Server 2. Policy P1 has item, Item1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Item1 is non-compliant. Since Item1 is part of policy P1, P1 is also non-compliant with respect to Server S1 & Server S2.
- Policy & Items with in a policy compliance details with respect to server will be reported only when a server scanned. In the event of scan failure or scan needed, only policy server attachment details are reported.
- An application configuration can have multiple instances on a server i.e. for example, WebSphere 4.0 configuration files can be installed in /opt and /home directories of server. In this case, net server compliance is determined by the aggregate compliance status of each application instance.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

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Figure 5 AppConfig Compliance By Policy

App Config Compliance by Server

Server Summary

- Compliant: Total number of compliant servers
- Non-Compliant: Total number of non-complaint servers. A server is considered to be non compliant when one or more of the policies or items with in those policies that are attached to are non-compliant.
- Scan Needed: Total number of servers that are in need of scan. A server is in scan needed state when one of more of the policies that are attached to has been modified and in order to determine the server compliance, the server needs to be scanned.
- Scan Failed: Total number of servers that failed to complete the job of scanning the server for its compliance.
- Counts reflect current managed/active servers only.

Table

- An application configuration policy can be attached to either a device group or directly to a server. When a policy is attached to device group, a scan is needed in order for the system to recognize the server / policy attachment. Also, only servers with matching platform are reported.
- Table is primarily grouped by servers. Each server has compliance counts on each instance of the application configuration that are installed.
- Each configuration file is further grouped with in an application configuration instance to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Application Config P1, Application Config P2 is attached to Server S1 & Server 2. P1 has Config File F1, Config File F2 and it is compliant for S1 & non-compliant with S2. P2 is non-compliant for S1 & non-compliant with S2. Net compliance status for S1 & S2 is non-compliant.
- Config Files with in an App Config will be reported only when a server it is installed to is scanned. In the event of scan failure or scan needed, only policy server attachment details are reported.
- An application configuration can have multiple instances on a server i.e. for example, Websphere 4.0 configuration files can be installed in /opt & /home directories of server. In this case, net compliance of server is determined by the combined compliance status of the each application instance.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 6 AppConfig Compliance By Server

App Config Compliance By Server

Config File Name

Amp/rick2

Amp/rick3

Amp/rick3

Amplick_hosts

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Generated on: Wed Feb 04 13:01:46 2009 PST

Last Scan Fri Aug 15 11:28 16 2008

Fri Aug 15 11:26:09 2008

Fri Aug 15 11:25:20 2008

Fri Aug 15 11:28:28 2008

This report provides a full detailed breakdown of selected policies by their App Config compliance status for selected managed servers. Parameters Date: 12-05-08 App Config Policy: 'amold_hosts.tpl' Device Group: Any Value Server: 'm429.dev.opsware.com' App Config Status: Any Value Server Summary Compliant: 0 . 0 Non-Compliant: × Scan Needed: 1 Scan Failed: 0 • Total: 1 Server Name m429.dev.opsware.com Status: Scan Needed **Compliant Policies:** 0/1 Compliant Items: 3/4 Policy Name: amold_hosts.tpl Scan Needed Status: **Compliant Files:** 3/4

On Server

No

Yes

Yes

Yes

Audit Compliance by Policy

Summary

- Compliant Policies: Count of compliant selected policies / Total number of selected policies that are attached to the servers.
- Compliant Rules: Count of unique compliant Rules across all selected policies / Total number of unique Rules across all selected policies that are attached to the servers.
- Compliant Severs: Count of unique compliant servers / Total number of unique servers.
- Counts reflect current managed/active servers for recurring audits only.

Table

- Audit policy contains rules that are either defined within or extended from another policy. Multi level policy hierarchy is supported to create a composite policy.
- Table is primarily grouped by policies. Each policy has compliance counts for each of the rules and servers that are audit checked.
- Each rule is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Audit Policy P1 has Rule, Rule1 and is audit checked on Server S1 & Server 2. Rule1 is compliant for S1 & non-compliant for S2. Net compliance status for Rule1 is non-compliant. Since Rule1 is part of policy P1, P1 is also non-compliant with respect to S1 & S2.
- Rules with in a policy will be reported only when a server it is attached to is scanned. In the event of scan failure or scan needed, only policy server attachment details are reported.
- Audit details that are captured for each of the target server vary depending on individual rule types and type of checks, that can be performed such as 'Value based' /'Comparison'.
- A 'Value Based' check verifies for a specific value on the target server, Example Min Password length = 8. "Actual Value" from the audit is reported, along with the "Expected Value" specified by the user.
- A 'Comparison Based' checks compares objects/files/directories etc on the source and target servers. Audit results could vary depending on existence of these objects on both source and target and their differences if exists.
- Audit reports for 'Comparison Based' checks, show only the differences between the source and target servers.
- An audit report consists of following columns:
 - Server Name
 - Check Item (depending on the rule type)
 - Actual Value or Differences (depending on the rule type)
 - Exception Details
 - Last Scan

Value Based Checks

The following is a list of rule types on which 'Value Based' checks can be performed:

- Check Policy / Pluggable Check
- Application Configuration Policy
- Custom Script
- Network Duplex
- Server Module Object
- Storage Initiator

Figure 7 Audit Compliance By Policy - Value-Based Checks

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Comparison Based Checks

The following is a list of rule types on which *Comparison Based* checks can be performed and reported:

- Storage InitiatorCheck Policy / Pluggable Check
- Windows Services
- Registry
- COM+
- Custom Script
- Storage
- File System

- IIS Metabase
- Server Module Object
- Hardware
- An exception to an audit can be created with or without 'Exception Details' / Exception Expiration Date. If exception criteria is met, for the specified target server, the server is considered 'Compliant'.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 8 Audit Compliance By Policy - Comparison-Based Checks

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Audit Compliance by Server and Policy

Server Summary

- Compliant: Total number of compliant servers.
- Non-Compliant: Total number of non-complaint servers. A server is considered to be non compliant when one or more of the policies or rules with in those policies that are attached to are non-compliant.
- Scan Needed: Total number of servers that are in need of scan. A server is in scan needed state when one of more of the policies that are attached to has been modified and in order to determine the server compliance, the server needs to be scanned.
- Scan Failed: Total number of servers that failed to complete the job of scanning the server for its compliance.
- Counts reflect current managed/active servers for recurring audits only.

Table

- Audit policy contains set of rules that are either defined within or extended from another policy. Multi level policy hierarchy is supported to create a composite policy.
- Table is primarily grouped by servers. Each server has compliance counts for each of the policy and rules within the policy that is audit checked.
- Each Rule is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Audit Policy P1 is audit checked on Server S1 & Server 2. Policy P1 has Rule, Rule1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Rule1 is non-compliant. Since Rule1 is part of policy P1, P1 is also non-compliant. Since P1 is attached to Server S1, S1 is non-compliant
- Rules with in a policy will be reported only when a server it is attached to is scanned. In the event of scan failure or scan needed, only policy server attachment details are reported.
- Audit details that are captured for each of the target server vary depending on individual rule types and type of checks, which are be performed such as 'Value based' /'Comparison'.
- A 'Value Based' check is performed to verify for a specific value on the target server, Example Min Password length = 8. "Actual Value" from the audit is reported, along with the "Expected Value" specified by the user.
- A 'Comparison Based' checks are performed to compare objects/files/directories on the source and target servers. Audit results could vary depending on existence of these objects on both source and target and their differences if exists.
- Audit reports for 'Comparison Based' checks, show only the differences between the source and target servers.
- An audit report consists of the following columns:
 - Server Name
 - Check Item (depending on the rule type)
 - Actual Value or Differences (depending on the rule type)

- Exception Details
- Last Scan

Value Based Checks

The following is a list of rule types on which 'Value Based' checks can be performed:

- Check Policy / Pluggable Check
- Application Configuration Policy
- Custom Script
- Network Duplex
- Server Module Object
- Storage Initiator

Figure 9 Audit Compliance By Server and Policy - Value-Based Checks

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Comparison Based Checks

The following is a list of rule types on which 'Comparison Based' checks can be performed and reported:

- Storage InitiatorCheck Policy / Pluggable Check
- Windows Services
- Registry
- COM+

- Custom Script
- Storage
- File System
- IIS Metabase
- Server Module Object
- Hardware

An exception to an audit can be created with or without 'Exception Details' / Exception Expiration Date. If exception criteria is met, for the specified target server, the server is considered 'Compliant'.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 10 Audit Compliance By Server and Policy - Comparison-Based Checks

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Audit Compliance by Audit

Summary

- Compliant Audits: Count of compliant selected audits / Total number of selected audits that are performed on the servers.
- Compliant Rules: Count of unique compliant Rules across all selected audits / Total number of unique Rules across all selected audits that are performed on the servers.
- Compliant Severs: Count of unique compliant servers / Total number of unique servers.
- Counts reflect current managed/active servers for recurring/ recurring and non-recurring audits depending on the selection criteria.

Table

- An audit consists of set of rules that are either derived from single or multiple audit policies. In addition audit can also have an implicit rules defined within to create a comprehensive audit.
- An audit snapshot specification can be created for set of servers using a policy that was pre configured with rules. The results for the specification can be used as a baseline for future audits.
- An audit can be created on set of target servers using either an audit snapshot specification result that was captured previously or on a recent snapshot specification result or as trivial as a single server as the source
- Table is primarily grouped by audits. Each audit has compliance counts for each of its Rules and servers that are audit checked.
- Each Rule is further grouped with in an audit to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Audit A1 is audit checked on Server S1 & Server 2. Audit A1 has Rule, Rule1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Rule1 is non-compliant. Since Rule1 is part of Audit A1, A1 is also non-compliant.
- Rules with in an Audit will be reported only when a server it is attached to is scanned In the event of scan failure or scan needed, only Audit server attachment details are reported.
- Audit details that are captured for each of the target server vary depending on individual rule types and type of checks, which are be performed such as 'Value based' /'Comparison'.
- A 'Value Based' check is performed to verify for a specific value on the target server, Example Min Password length = 8. "Actual Value" from the audit is reported, along with the "Expected Value" specified by the user.
- A 'Comparison Based' checks are performed to compare objects/files/directories on the source and target servers. Audit results could vary depending on existence of these objects on both source and target and their differences if exists.
- Audit reports for 'Comparison Based' checks, show only the differences between the source and target servers.
- Audit report consists of following columns.
 - Server Name

- Check Item (depending on the rule type)
- Actual Value or Differences (depending on the rule type)
- Exception Details
- Last Scan

Value Based Checks

Following is a list of rule types on which 'Value Based' checks can be performed

- Check Policy / Pluggable Check
- Application Configuration Policy
- Custom Script
- Network Duplex
- Server Module Object
- Storage Initiator

Figure 11 Audit Compliance By Audit - Value-Based Checks

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Comparison Based Checks

The following is a list of rule types on which 'Comparison Based' checks can be performed and reported:

- Storage InitiatorCheck Policy / Pluggable Check
- Windows Services
- Registry

- COM+
- Custom Script
- Storage
- File System
- IIS Metabase
- Server Module Object
- Hardware
- An exception to an audit can be created with or without 'Exception Details' / Exception Expiration Date. If exception criteria is met, for the specified target server, the server is considered 'Compliant'.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 12 Audit Compliance By Audit - Comparison-Based Checks

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Audit Compliance by Server and Audit

Server Summary

- Compliant: Total number of compliant servers
- Non-Compliant: Total number of non-complaint servers. A server is considered to be non compliant when one or more of the policies or rules with in those policies that are attached to are non-compliant
- Scan Needed: Total number of servers that are in need of scan. A server is in scan needed state when one of more of the policies that are attached to has been modified and in order to determine the server compliance, the server needs to be scanned.
- Scan Failed: Total number of servers that failed to complete the job of scanning the server for its compliance.
- Counts reflect current managed/active servers for recurring audits only

Table

- An audit policy consists of set of rules that are either defined within or extended from another policy. Multi level policy inheritance is supported to create a composite policy.
- An audit snapshot specification can be created for set of target servers using a policy that was pre- configured with rules. The results for the specification can be used as a baseline for future audits.
- An audit can be created on set of target servers using either an audit snapshot specification result that was captured previously or on a recent snapshot specification result or as trivial as a single server as the source.
- Table is primarily grouped by servers. Each server has compliance counts for each of the policies and rules within the policy that are audit checked.
- Each Rule is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Audit Policy P1 is audit checked on Server S1 & Server 2. Policy P1 has Rule, Rule1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Rule1 is non-compliant. Since Rule1 is part of policy P1, P1 is also non-compliant. Since P1 is attached to Server S1, S1 is non-compliant.
- Rules with in a policy will be reported only when a server it is attached to is scanned. In the event of scan failure or scan needed, only policy server attachment details are reported.
- Audit details that are captured for each of the target server vary depending on individual rule types and type of checks, which are be performed such as 'Value based' /'Comparison'.
- A 'Value Based' check is performed to verify for a specific value on the target server, Example Min Password length = 8. "Actual Value" from the audit is reported, along with the "Expected Value" specified by the user.
- A 'Comparison Based' checks are performed to compare objects/files/directories on the source and target servers. Audit results could vary depending on existence of these objects on both source and target and their differences if exists.
- Audit reports for 'Comparison Based' checks, show only the differences between the source and target servers

- Audit report consists of following columns
 - Server Name
 - Check Item (depending on the rule type)
 - Actual Value or Differences (depending on the rule type)
 - Exception Details
 - Last Scan

Value Based Checks

The following is a list of rule types on which 'Value Based' checks can be performed:

- Check Policy / Pluggable Check
- Application Configuration Policy
- Custom Script
- Network Duplex
- Server Module Object
- Storage Initiator

Figure 13 Audit Compliance By Server and Audit - Value-Based Checks

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Comparison Based Checks

The Following are list of rule types on which 'Comparison Based' checks can be performed and reported:

• Storage InitiatorCheck Policy / Pluggable Check

- Windows Services
- Registry
- COM+
- Custom Script
- Storage
- File System
- IIS Metabase
- Server Module Object
- Hardware
- An exception to an audit can be created with or without 'Exception Details' / Exception Expiration Date. If exception criteria is met, for the specified target server, the server is considered 'Compliant'.

Actionable

- Double Click / Right Click on an audit and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 14 Audit Compliance By Server and Audit - Comparison-Based Checks

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Patch Compliance By Policy

Summary

- Compliant Policies: Count of compliant selected policies / Total number of selected policies that are attached to the servers.
- Compliant Patches: Count of unique compliant patches across all selected policies / Total number of unique patches across all selected policies that are attached to the servers.
- Compliant Severs: Count of unique compliant servers / Total number of unique servers.
- Counts reflect current managed/active servers only.

Table

- A patch policy can be attached to either a device group or directly to a server. Only servers with matching platform are reported.
- A device group can have another device group i.e. nested device group. A patch policy can be attached to nested device group. By default only servers directly attached to parent device group are reported when parent device group is selected as part of user report criteria.
- To determine compliance details of nested device group, user has to select nested device group in the report criteria.
- Table is primarily grouped by policies. Each policy has compliance counts for each of its patches and servers that are attached to it.
- Each patch item is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Patch Policy P1 is attached to Server S1 & Server 2. Policy P1 has patch item, Item1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Item1 is non-compliant. Since Item1 is part of policy P1, P1 is also non-compliant.
- Compliance details of a patch item with in a policy will be reported only when a server it is attached to is scanned In the event of scan failure or scan needed, only policy server attachment details are reported.
- A patch item that is 'Partially Complaint' would make the policy that is part of 'non-compliant'. However, the server would be in Partially-Compliant' status.
- An exception to a patch item can be created with or without 'Exception Details' / Exception Expiration Date. If exception criteria is met, patch is compliant / partially-compliant depending on the patch compliance user setting in SA

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 15 Patch Compliance By Policy

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Patch Compliance By Server

Summary

- Total number of compliant servers.
- Non-Compliant: Total number of non-complaint servers. A server is considered to be non compliant when one or more of the policies or patches with in those policies that are attached to are non-compliant.
- Scan Needed: Total number of servers that are in need of scan. A server is in scan needed state when one of more of the policies that are attached to has been modified and in order to determine the server compliance, the server needs to be scanned.
- Scan Failed: Total number of servers that failed to complete the job of scanning the server for its compliance.
- Partially-Compliant: Total number of servers that failed to fully meet the patch compliance standards set by the administrators.
- Counts reflect current managed/active servers only.

Table

- A patch policy can be attached to either a device group or directly to a server. Only servers with matching platform are reported.
- A device group can have another device group i.e. nested device group. A patch policy can be attached to nested device group. By default only servers directly attached to parent device group are reported when parent device group is selected as part of user report criteria.
- To determine compliance details of nested device group, user has to select nested device group in the report criteria.
- Table is primarily grouped by servers. Each server has compliance counts for each of the policies that are attached and patches that are part of the policy.
- Each patch item is further grouped with in a policy to give granular compliance details at this level. Compliance status is rolled-up or bubbled up from this level. For example, Patch Policy P1 is attached to Server S1 & Server 2. Policy P1 has patch item, Item1 and it is compliant for server S1 & non-compliant with server S2. Net compliance status for Item1 is non-compliant. Since Item1 is part of policy P1, P1 is also non-compliant and so is the server S1.
- Compliance details of a patch item with in a policy will be reported only when a server it is attached to is scanned In the event of scan failure or scan needed, only policy server attachment details are reported.
- A patch item that is 'Partially Complaint' would make the policy that is part of 'non-compliant'. However, the server would be in Partially-Compliant' status.
- An exception to a patch item can be created with or without 'Exception Details' / Exception Expiration Date. If exception criteria is met, patch is compliant / partially-compliant depending on the patch compliance user setting in SA.

Actionable

- Double Click / Right Click on a policy and select 'Open' to launch SA Policy Browser. Various possible operations on the policy are subject to user permission.
- Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission.

Figure 16 Patch Compliance By Server

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aren		1950	Compliance By Server						
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Servers Without Policies by Policy Type

Table

- Report lists servers that are do not have any policies attached to them.
- Servers are grouped by policy type, with the name of each server listed.
- A server can be listed under multiple policy type sections. For example server S1 can be listed in 'Audit Policy' type section and 'Software Policy' type section, if it is has only patch & App Config polices.
- Counts reflect current managed/active servers only.

Actionable

Double Click / Right Click on a server and select 'Open' to launch SA Server browser window. Various possible operations on the server are subject to user permission

Figure 17 Servers Without Policies By Compliance Type

earch	Servers Without Pe	licies By Compliance Type		
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Servers Without Policies By Compliance Type	Parameters			
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Statute Compliance by Server	Policy Type:	WPPCONFIG/_PATCH/		
ia 🗭 Sultivare	Device Group:	'All Reachable Servers'		
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3 Glossary

Generated On

Date the report is generated on with the data-time format as specified in the SA User Profile in SAS Web Client.

Status

- Compliance Status of Server /Item: Status roll up is computed with worst case as cumulative status. Status bubbles up or rolls up from good to worst i.e. Compliance -> Partially Complaint (patch only) -> Non-Compliant -> Scan Needed -> Scan Failed.
- Compliance Status of Policy: Status roll up is computed with worst case being 'Scan Failure'. Status precedence from good to worst is Compliance -> Non-Compliant -> Scan Needed -> Scan Failed

Last Scan

Date of last scan on which the compliance status is computed. Date format is same as that of user specified in the SA User Profile.

Compliant Rules/Items/Files

Numerator specifies the number of compliant Rules/Items/Files with in a given policy, where as the denominator specifies total number of Rules/Items/Files with in a policy

Compliant Servers

Numerator specifies the number of compliant servers for a given policy, where as the denominator specifies total number of server that are attached to a policy

On Server

Determines if a particular version of patch item / software unit / App Config file exists on the server

Exceptions

An exception can be created within a policy and can have details such as exception expiration date and details on exception itself.