RAR CONFIGURATION

Upload UME Roles:

Go to Java Portal home page->user management->Import->browse the UME Roles at OS level

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after browsing upload the file.

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then click on return to batch import and upload the other files in the same way.

below is the final screen.

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Now go to Identity management-> select All data sources from drop down->click on go.

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Now select J2EE_ADMIN user and assign all the roles to it.

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Details of User J2EE ADMIN			
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click on go on available roles side select all and Click on ADD and then save it.

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Logoff and go to the Below URL

http://<servername>:5<instance>00/webdynpro/dispatcher/sap.com/grc~acappc omp/AC

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	i2ee admin	
Password *	••••••	
Log on		
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login with Master password.



In order to highlight the Superuser Privilege Management_link, Goto below link

http://<servername>:5<nr>00/index.html

JAVA Portal-> user management->login with J2EE_ADMIN User

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Select Role in the dropdown and click on Go.

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Click on Create Role, in general information Tab provide unique name in the provided filed(here it is FF_ROLE) and Goto Assigned Actions Tab. then Type *FF* in the Text Field. click on GO button.

select all and click on Add and save it.

Now select User from the drop down and click on Go button

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Select J2EE_ADMIN user-> modify->goto assigned roles tab->type *FF* in the space and click go-> select all-> ADD-> save it.

logout and go to this url

http://<servername>:5<instance>00/webdynpro/dispatcher/sap.com/grc~acappcomp/AC Now we can see the Superuser privilage management Tab Activated.



Check background job daemon by going to the below URL http://<server>:5<nr>00/sap/CCBgStatus.jsp

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Background Daemon

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It should come up with status "running".

Now go to URL http://<server>:5<nr>00/sap/CCADStatus.jsp. An empty screen is displayed as below.



Analysis Engine Daemon Manager



Now Run the below Queries at database level. (Open SQL Server Mgmt Studio)

INSERT INTO SAP<SID>DB .VIRSA_CC_CONFIG VALUES (105, 0, 'http', 'J2EE Engine Protocol')

INSERT INTO SAP<SID>DB .VIRSA_CC_CONFIG VALUES (106, 0, '50000', 'J2EE Engine Port')

INSERT INTO SAP<SID>DB .VIRSA_CC_CONFIG VALUES (107, 0, 'http://localhost:50000/webdynpro/dispatcher/sap.com/grc~ccappcomp/BgJobStart', 'BgJobStart URL')

After running the above queries the output is displayed as below.

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Analysis Engine Daemon Manager	

Analysis Engine Daemon Manager

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2	IDLE	4/6/13 3:45 PM	D:\usr\sap\RSD\DVEBMGS00 \j2ee\cluster\server0\.
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3	IDLE	4/6/13 3:45 PM	D:\usr\sap\RSD\DVEBMGS00 \j2ee\cluster\server0\.
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6	IDLE	4/6/13 3:45 PM	D:\usr\sap\RSD\DVEBMGS00 \j2ee\cluster\server0\.

Maintain JCO Connectors(Metadata and Model).

goto the URL http://<servername>:5<instance>00/webdynpro/dispatcher/sap.com/grc~acappcomp/AC



click on Risk Analysis and remediation

meanwhile logon to ABAP Stack and create a Logon group using transaction SMLG

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Logon Group Instance Status GRCSERVER_RSD_00	
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SAP	Response Time 8892 ms Interpretation Time 63 ms Round Trips/Flushes 2/1 RSD (1) 001 ▼ GRCSERVER
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click on create

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provide logon group name and copy it and save.

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go to http://grcserver:50000/sld-> technical systems

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System Landscape Directory (SLD) manages information about all installable and installed elements of your system landscape. Landscape Software Catalog Development		
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select ' Web As ABAP' in the drop down and click on go.

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select the SLD server(here it is RSD on grcserver)

click on "Message Server" tab

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Host Name: groserver Message Server Port: 3600 Description: Image: Comparison of the server port port of the server				Installed Produ	cts			
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click on add new logon group

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Provide logon group created in ABAP Stack and save it.

Goto http://grcserver:50000/index.html and click on Web Dynpro->content administrator->login with J2EE_ADMIN user

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Click on Maintain JCo destinations

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By clicking on create

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	Create new JCo Destination			
		_	_	
	General Data J2EE Cluster Conn	3 ection Type Appl.	4.1 Server Connectio	n
	Define the name and the maximal pool size of the JCO	connection.		
	Optionally you can create the new JCo destination as a	copy of a existing one.		
	Please make sure that the new JCo destination name Destination Name	is not an extension of an JCo Pool Configurat	existing one (lik)	e "Test" and "Test1
	Name: VIRSAR3 01 METADATA	Maximal Pool Size :		50
	Client: 001	Maximum Connection	ins:	100
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provide details as provided in the screen and click next

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	Create new JCo Destination	
	General Data J2EE Cluster Connection Type Appl. Server Connection	
	Define the J2EE cluster, to which the JCo destination should be assigned.	on for an
	Use local J2EE engine "RSD on groserver"	
	RSD on proserver	
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	Create new ICo Destination			
	General Data Connection Type	Appl Se	4.1	Msg Serv
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	Data Type	Destination	Гуре	
	Define the type of data you want to read using the JCo destination.	Define wheth Note: This is	only possible for	t a load-balance destinations us
	C Application Data	C Load-bala	noed Connection	(recommended
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	Create new JCo Destination	
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	General Data J2EE Cluster Connection Type	
	Define the message server, system name and the logon group used by the JCO connection. Message Server: RSD groserver	
	System Name: RSD	
	Use SAP Router	
	SAP Router String:	
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Provide DDIC user and password and click on next

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	Create new JCo Destination		
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	General Data J2EE Cluster Connection Typ	e Appl. Server Connection	
	You defined the following JCO connection: General Security Connection		
	General Data	JCo Pool Configuration	
	Name: VIRSAR3 01 METADATA	Maximum Pool Size:	
	Client: 001 J2EE Cluster Name: RSD on proserver	Maximum Connections:	
		Maximum Waiting Time (msec.):	
	Previous Next Finish Cancel		
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click on FINISH

Repeat the above steps for all other JCo destinations given above.

now go to http://<servername>:5<instance>00/webdynpro/dispatcher/sap.com/grc~acappcomp/AC and click on Risk analysis remediation-> Configuration tab->Connectors->Create

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▼ Risk Analysis	Create Connector		
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Additional Options Mitigating Controls	System Name: *		
Workflow Miscellaneous	System Type:	SAP	
 MIC User Mappings MIC Risk Mappings 	Connection Type:	Adaptive RFC	
✓ Connectors	SAP Gateway:		
Search	Report Name:		
 Logical Systems Cross Systems 	Outbound Connection:		
Data Extraction Master User Source	Unicode System:		
Custom User Groups	Save		
Done			
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Provide the details and save it

Now click on Connectors->search->search

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Upload Objects				
Rule Upload	Change Delete			
Backend Sync	Change Delete			
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Check, if the connector really works by going to below URL and test search for Backend users

http://<server>:<port>/webdynpro/dispatcher/sap.com/grc~ccappcomp/CCDebugger

Rashed's GRC RAR configuration

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provide * in Obj ID field and click on Search obj... users in backend must be shown here.

Create a logical system in GRC home page in java stack.

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Miscellaneous MIC User Mappings MIC Risk Mappings Connectors Logical Systems	System *			
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Miscellaneous MIC User Mappings			
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 Search 			
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Master User Source User Mapping	지 · · · · · · · · · · · · · · · · · · ·		
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Upload Objects Rule Upload	Change Delete		

UPLOAD ERROR MESSAGES.

utilities->Import->browse the location of error message file(CC5.3_MESSAGES.txt)

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Risk Analysis Default Values	Import Configuration	
Performance Tuning Additional Options	Local File: D:grc/khan_grc5.3/grcdocs Browse.	
Mitigating Controls Workflow	Import Configuration Correct file name and path must be provided	
Miscellaneous MiC User Mappings		
MIC Risk Mappings Connectors		
Logical Systems Cross Systems		
Data Extraction Master User Source		
User Mapping Custom User Groups		
Rule Upload		
Backend Sync Background Job		
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click on Import Configuration.

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Mitigating Controls Workflow	Import Configuration	
Miscellaneous Miscellaneous MiC User Mappings MiC Viser Mappings Connectors Logical Systems Cross Systems Data Extraction Master User Source User Mapping Custom User Groups Upload Objects Rule Upload Backend Sync Organizational User Mapping Custom Tabs SAP Adapter Data Conversion CC5.1 → CC5.3 Utilities Export Import Purge Action Usage	3	
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click Continue

Set/check default performance parameters

Set Default Values according to your requirements Set Performance values according to Note 1121978 - Recommended settings to improve performance risk analysis

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 Risk Analysis Default Values 	Risk Analysis - Default Values	<u> </u>
Performance Tuning Additional Options Mitigating Controls	Default report type for risk analysis This option sets the default report type when running a risk analysis; the default value is Permission Level	Permission Level
Workflow Miscellaneous MIC User Mappings MIC Rick Mappings	Default risk level for risk analysis This option sets the default risk level when running a risk analysis; the default value is All	
Connectors Logical Systems Cross Systems	a dire Access control A lisk Analysis A lisk Analysis and Kenterskin Analysis A lisk Analysis c Analysis Fault Values Permission Level reformance Tuning Default report type for risk analysis Permission Level ditional Options This option sets the default report type when running a risk analysis; the default value is Permission Level Default risk level for risk analysis All User Mappings Default user type for risk analysis; the default value is All Risk Analysis Default risk level for risk analysis Default user type for risk analysis All User Mappings Default user type for risk analysis; the default value is All Risk Analysis Default user type for risk analysis This option sets the default user type included when running a risk analysis; the default is Dialog a Extraction Default rule set for risk analysis ter User Source This option sets the default rule set included when running a risk analysis; default value is Yes ter User Source This option specifies whether locked users are excluded when running a risk analysis; default value is Yes ter User Source This option specifies whether locked users are excluded when running a risk analysis; the default value is Yes toblocts Upload This opti	Dialog
Data Extraction Master User Source User Mapping Custom User Groups		
 Upload Objects Rule Upload Backend Sync 		Yes
 Background Job Organizational User Mapping Custom Tabs SAP Adapter 	X X Risk Analysis and Remediation X X CCDebugger X Risk Analysis - Default Values Default report type for risk analysis Permission Level Permission Level Default report type for risk analysis Permission Level All All Default risk level for risk analysis All All Default user type for risk analysis All Default user type for risk analysis Dialog This option sets the default user type included when running a risk analysis; the default value is All Default user type for risk analysis Dialog Default rule set for risk analysis Default rule set for risk analysis Dialog Dialog This option sets the default rule set included when running a risk analysis; the default is Dialog Ves Yes This option sets the default rule set included when running a risk analysis; Yes Yes Yes This option specifies whether locked users are excluded when running a risk analysis; default value is Yes Yes Yes This option specifies whether expired users are excluded when running a risk analysis; the default value is Yes Yes Yes This option specifies whether risks with mitigating controls are excluded when running a risk analysis; default value is Yes Yes Yes	Yes
Data Conversion CC5.1 -> CC5.3 Utilities Export	Exclude Mitigated Risks This option specifies whether risks with mitigating controls are excluded when running a risk analysis; default value is	Yes Ves
Import		×
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Save it

Click on Performance Tuning provide all the values and click on save

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Risk Analysis Risk Analysis - Performance Tuning	
Default Values Performance Tuning Additional Options This option is for limiting the number of users per batch; the default value is 1000 users	
Mitigating Controls Workflow Miscellaneous Miscellaneous Mic User Mappings Mic User Mappings Mic User Mappings	
MIC Risk Mappings Connectors Number of Background Job Worker Threads Logical Systems This is to specify the number of server threads for background jobs; default value is 3; to turn off, set to 0	
> Data Extraction RFC Timeout for Web Services / Background Job Worker Threads (Minutes) 30 • Master User Source This sets the timeout period when a connection is left idle; default value is 30 minutes 30	
Custom User Groups Upload Objects Rule Upload Backend Sync Background Job Organizational User Mapping Custom Tabs SAP Adapter Data Conversion CC5.1 -> CC5.3 Utilities Save Cancel	
Done	
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Click on Miscellaneous and Provide all the input values as below

Rashed's GRC RAR configuration

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 Default Values 	The second state with the second state of the		
 Performance Tuning 	Frequency in seconds of Background Job Daemon	60	
 Additional Options 	This parameter specifies, in seconds, how often the background job daemon is invoked; the default value is 60		
Mitigating Controls			
Worktiow	Maximum Display Lines For Print Preview	500	
MIC User Mannings	This parameter specifies the maximum number of lines to be displayed in print preview mode; the default value is 50	3	
MIC Risk Mappings			
Connectors	Background Job Spool File Location		
Logical Systems	This parameter specifies the location where the background job spool files are stored		
Create	Alashi an File Name and Landing		
 Search 			
 Generate Rules 	This parameter specifies the location where the action usage purged data files are stored		
Cross Systems	Fashin Bink Channel an		
Data Extraction	Chable Risk Change Log	Yes	-
Master User Source	This parameter specifies if changes to risks are logged; default value is Yes		
User Mapping	Fachly Function Observation		
Custom User Groups	Enable Function Change Log	Yes	
Dule Unload	This parameter specifies whether changes to functions are logged; the default value is Yes		
Rule Opload Backend Sync	Defente Management Descent Marlation Count		
Background Job		Permission	
Organizational User Mapping			
Custom Tabs	Save Cancel		
SAP Adapter			
Data Conversion CC5.1 -> CC5.1			
Utilities			
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Rashed's GRC RAR configuration

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nformer Rule Architect	Mitigation Alert Monitor Configuration	
Risk Analysis	Miscellaneous	
 Default Values Performance Tuning 	This parameter specifies whether changes to functions are logged; the default value is Yes	
Additional Options Mitigating Controls	Default Management Report Violation Count Permission	•
Workflow	This parameter specifies whether violations are reported in the management report at risk or at permission level; default value is Permission	
MIC User Mappings MIC Risk Mappings	Default Logger Parameter SAP Logger This parameter sets the default value of the logger, the default value is SAP Logger SAP Logger	•
Logical Systems Create	SAP Application Server Location Enter SAP application server location here	
Searcn Generate Rules Cross Systems	FTP Site Location	
Data Extraction		
Master User Source User Mapping Custom User Groups	FTP Site User Name Enter FTP site User Name here	
Upload Objects Rule Upload Backend Sync	FTP Site Password Enter FTP site password here	
Background Job Organizational User Mapping		- •
Custom Tabs SAP Adapter	Save Cancel	
Data Conversion CC5.1 -> CC5 Utilities	3	
Export		
Purge Action Usage		

Check if a user master source is defined in RAR.

goto the path



select tc~wd~dispwda->Propertysheet default under SAP.COM

goto Edit mode. double click on propertysheet default.

Rashed's GRC RAR configuration

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click on Apply Custom->OK

Now go back to RAR page->Master user record->select the serever->Save

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 Miscellaneous 		
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Now go to ABAP Stack. Using the transaction SE38 run below two programs

/VIRSA/ZCC_DOWNLOAD_DESC

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Create a text file in any location and browse the path in the local file field and execute it.

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:\New Folder\1.txt	 1	

Open the TXT file and save it in UTF-8 format.

Rashed's GRC RAR configuration

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Save As	
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File name: 1	-
Save as type: Text Documents (*.bxt)	
Browse Folders Encoding: ANSI Save Cancel	
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ACT /BEV1/910 Unicode big endian lge Empties Groups ACT /BEV1/910 UTE-3 de les Formulas	
ACT /BEV1/91000105 EN Empties material	
ACT /BEV1/91000106 EN Empires opdate sequence	
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Now perfrom the above steps for other program /VIRSA/ZCC_DOWNLOAD_SAPOBJ.

goto GRC RAR config Portal

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Risk AnalysisDefault Values	Text Objects Upload	
 Performance Tuning Additional Options 	System: * grcserver	
Mitigating Controls	Local File: D:\New Folder\1.bt Browse	
 Workflow Miscellaneous MIC User Mappings MIC Risk Mappings 	Server File: D:\New Folder\1.CTL Foreground Background Cancel	
 Connectors Logical Systems Cross Systems Data Extraction Master User Source 		
 User Mapping Custom User Groups Upload Objects 		
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click on Foreground

Now go for Permissions and upload object

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Mitigating Controls Workflow Miscellaneous MIC User Mannings	Local File: D:\New Folder\2.txt Browse Server File: D:\New Folder\2.CTL	
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Cross Systems Data Extraction Master User Source		
User Mapping Custom User Groups Uklaad Objects		
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Now go to Rule Upload-> Select the Business Process->upload ALL_Business_Processes file

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Default Values Performance Tuning Additional Options	File Location: D:\grc\khan_grc5.3\grc	
Mitigating Controls Workflow Miscellaneous MIC User Mappings MIC Risk Mappings Connectors Logical Systems Cross Systems Data Extraction Master User Source User Mapping Custom User Groups Upload Objects Rule Upload	Upload	
Business Process Function Function Authorization Rule Set Risk Generate Rules Backend Svnc		
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Click on Upload.

click on Function->browse for ALL_Function_BP and ALL_Functions files and upload

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 Miscellaneous MIC User Map 	pings	Upload				
 MIC Risk Map Connectors 	pings					
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click function Authorization-> browse for R3_function_action and R3_function_permission files and Upload them.

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 Workflow Miscellaneous 	Function Permission:	D:\grc\khan_grc5.3\grc(Browse_	
MIC User Mappings	Upload		
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click on Rule set-> Browse for ALL_Ruleset file and Upload it.

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Miscellaneous MIC User Mappings MIC Risk Mappings Connectors Logical Systems Cross Systems Data Extraction Master User Source User Mapping		
Custom Objects Vuload Objects Rule Upload Business Process Function Function Rule Set Risk		
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click on Risk-> browse for R3_Risk_Ruleset, R3_risks, R3_risks_desc files and upload them.

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Default Values Performance Tuning Additional Options	Risk: D:\grc\khan_grc5.3\grc Browse.	
Mitigating Controls Workflow Miscellaneous MIC User Mappings MIC Risk Mappings	Risk Description: D:\grc\khan_grc5.3\grc Browse Rule Set Mapping: D:\grc\khan_grc5.3\grc Browse Upload D:\grc\khan_grc5.3\grc Browse	
Connectors Logical Systems Cross Systems Data Extraction Master User Source User Mapping Custom User Groups Upload Objects Rule Upload Business Process		
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Click on Generate Rules->foreground.

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Workflow Miscellaneous	B015: Archiving & Client Administration	BS01 - Archiving & BS05 - Client Administration	Medium Enable	
MIC User Mappings MIC Risk Mappings Connectors	B018: Archiving & Transport Administration	BS01 - Archiving & BS12 - Transport Administration	Medium Enable	
Logical Systems Cross Systems Data Extraction	B017: Create Transport & Perform Transport	BS07 - Create Transport & BS09 - Perform Transport	High Enable	
Master User Source User Mapping Custom User Groups	B018: Maintain Number Ranges & System Administration	BS08 - Maintain Number Ranges & BS11 - System Administration	High Enable	
Upload Objects Rule Upload Business Process	B019: Maintaining roles or profiles and assigning roles to users	BS13 - Maintain User Master & BS14 - Maintain Profiles / Roles	High Enable	
Function Eulerican Authorization	BSAC: Basis Archiving Actions	BS15 - Basis Archiving Actions	High Enable	
Rule Set	BSCF: Basis Configuration Actions	BS16 - Basis Configuration Actions	High Enable	
Risk Generate Rules	BSCT: Basis Critical Actions	BS17 - Basis Critical Actions	High Enable	
Backend Sync Backeround Job	BSPF: Basis Performance Actions	BS18 - Basis Performance Monitoring	High Enable	
Organizational User Mapping Custom Tabs	BSSC: Basis Security Actions	BS19 - Basis Security Actions	High Enable	
 SAP Adapter Data Conversion CC5.1 -> CC5.3 Utilities 	Foreground Background		-	
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One final step of configuring Compliance Calibrator is making "Global" rule set as Default rule set for risk analysis.

Click the Configuration Tab on top. From left navigation menu, Click Risk Analysis.

Click Default Values.

The following screen will be displayed.

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SAP Risk A	GRC Access Control nalysis and Remediation Welcome J2EE_ADMIN Help A	vbout Logoff	
Risk Analysis	Risk Analysis - Default Values		
 Default Values 	Rick Analysis - Dolaak Valabo		
Performance Tuning	Default report type for risk analysis	Permission Level	
Additional Options	This option sets the default report type when running a risk analysis; the default value is Permission Level		
Workflow	Default risk level for risk analysis	All	-
Miscellaneous MIC User Mappings	This option sets the default risk level when running a risk analysis; the default value is All		
MIC Risk Mappings	Default user type for risk analysis	Dialog	
Connectors Logical Systems	This option sets the default user type included when running a risk analysis; the default is Dialog	Junity -	
Cross Systems	Default rule set for risk analysis	Global	
Data Extraction Master User Source	This option sets the default rule set included when running a risk analysis	L	
User Mapping Custom User Groups	Exclude Locked Users	Yes	-
Upload Objects Rule Upload	This option specifies whether locked users are excluded when running a risk analysis; default value is Yes		
Business Process	Exclude Expired Users	Yes	-
FunctionFunction Authorization	This option specifies whether expired users are excluded when running a risk analysis; the default value is Yes		
Rule Set	Exclude Mitigated Risks	Yes	
- Risk	This option specifies whether risks with mitigating controls are excluded when running a risk analysis: default value is Yes	10000	
Generate Rules			
Backend Sync			
Background Job			
Organizational User Mapping			
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Change the Default Rule Set to GLOBAL Click Save.

Run Background jobs for USER/PROFILE/ROLE Synchronization, batch risk analysis and Management report.

==>USER/PROFILE/ROLE Synchronization

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Data Extraction Master User Source User Manning	Batch Mode:	Incremental		
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Upload Objects Rule Upload	Report Type:	Action Level Analysis	Permission Level Analysis	
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click on SCHEDULE

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Additional Options Mitigating Controls Workflow Miscellaneous MIC User Mappings	Job Name: * Immediate Start Delayed Start	Z:RSD_USER_SYNCHRONIZ Date: [4/8/2013]	ATION	Time: 5:46:34 PM
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Click on SCHEDULE

Perform same steps for Role and Profile Synchronization one after the other.

After that perform Batch risk analysis and Management reports

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After Completion of all the Background jobs below screen gets displayed.

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Now login to RAR Config URL. below screens should be shown if the configuration is successful.

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