

10 STEPS TO A SUCCESSFUL SAP BUSINESSOBJECTS CLOUD MIGRATION (AWS, AZURE, SAP HEC, ETC.)

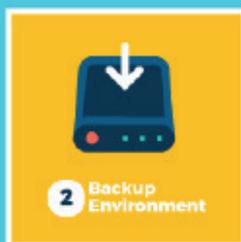


Increasingly, organizations are opting to migrate applications and data to the cloud. Done well, cloud migrations can yield numerous benefits, including lower costs, greater flexibility and enhanced disaster recovery. Done poorly, cloud migrations can reduce performance and put information at risk. 360Suite offers a set of solutions and recommends 10 steps to a successful SAP BusinessObjects cloud migration..

10 Steps to Successfully Migrate Business Objects to the Cloud



1 Perform BI on BI Assessment



2 Backup Environment



3 Cleanup Environment



4 Optimize Business Objects



5 Analyze License Pool and Session Peaks



6 Develop Plan to Migrate Content



7 Compare Source and Target



8 Automate Regression Testing



9 Monitor Performance



10 Ensure Security

Shifting from on-premise servers to the cloud saves money on infrastructure and staffing. The cloud offers greater scalability because consumers can easily add CPU and RAM, and increase the number of servers. Cloud providers offer disaster recovery services that help protect data from being lost.

But the cloud isn't a one-size-fits-all solution. Organizations may be subject to regulatory requirements that dictate where information can be stored. Or they may be reluctant to give up full control over platform security, network latency, and data visibility. Geography is also a consideration, as global organizations may find the cloud limiting in terms of bandwidth and access to content in certain locations.

Fortunately, a cloud migration isn't an all-or-nothing proposition. Architecture refers to design structure; just as buildings vary by architecture, so does the cloud.

Two common architectural styles are the full cloud and the hybrid cloud:

- In the full cloud model, SAP BusinessObjects and all associated dependencies (Central Management Server (CMS), File Repository Server (FRS), Auditor, reporting, etc.) are hosted in the cloud.
- In the hybrid cloud model, the location of SAP BusinessObjects and dependencies is split between on-premise servers and the cloud.

Organizations should consider the impact of design choices before drawing up blueprints to migrate SAP BusinessObjects to the cloud. Regardless of cloud architecture, 360Suite solutions reduce costs and shorten timelines by up to 80%, ensuring a cheaper, faster, easier and more successful cloud migration.

STEP 1: PERFORM A BI ON BI ASSESSMENT

Selecting the ideal cloud architecture and drawing up blueprints to move SAP BusinessObjects to the cloud requires information that can only be obtained by analyzing the source platform.

Key questions should include:

1. How many universes, objects and reports exist? How many are actively used? How many can be archived?
2. How large are the reports?
3. Are there unpurged reports? If so, how many?
4. Are there duplicate reports with different names and/or locations?
5. When do session peaks occur?
6. Is it necessary to migrate entire inboxes, including unread documents?
7. What content is regulated?
8. What is the security model?
9. Who is connecting and how often? Who is not connecting?
10. Who are the power users and how do they use SAP BusinessObjects?
11. How many instances can be archived or deleted?
12. Are there document scheduling jobs? Check the destination folder locations; are they still valid?
13. How big are the queries?
14. How many data sources exist and are they all in use?
15. Who uses what client tools? Are they on-premise or hosted?

SAP BusinessObjects has limited BI on BI capability via the admin cockpit, and the SAP BusinessObjects query builder does not query the FRS. In contrast, 360Suite generates detailed information needed for a thorough BI on BI assessment. It queries the CMS, the FRS and Auditor across all environments to obtain data on utilization, duplication, security, variables and functions regardless of source data (unv, unx, BEx query, Freehand SQL, etc.). This information provides a unique and complete picture of the source platform.

Last document used

Document path	Document CUID	Document Name	Action Count	Last Action Date	Number of Inactivity Days
/Root Folder/360eyes reports/03 Report/Comparison/	AW77ea8D0z2N1Y1CbnqCwm	360eyes REPORT - 31 Track duplicated reports	5	1/30/17	0
/Root Folder/360eyes reports/02 Report/User activity/	ASOCaC3mechJmIbdsHhlg	360eyes REPORT - 62 User actions list	5	1/30/17	0
/Root Folder/360eyes reports/02 Report/User activity/	AW77ea8D0z2N1A40m20vin7	360eyes REPORT - 60 Last documents use	5	1/30/17	0
/Root Folder/360eyes reports/05 Universe/	AY2UR8QM02KsOk1DBVqEPm	360eyes UNIVERSE - 72 unused universe objects	5	1/30/17	0

Last Login date for users

Document path	User Fullname	User Type	User Last Login
360Demo1	360 Demo Account	secEnterprise:	NEVER CONNECTED
360Demo2	360 Demo Account	secEnterprise:	NEVER CONNECTED
Alfatec	Alfatec	secEnterprise:	NEVER CONNECTED
Allen	Allen Test	secEnterprise:	NEVER CONNECTED
Antoine	Antoine Pourpoint CBS	secEnterprise:	NEVER CONNECTED
Bob	Bob Test	secEnterprise:	NEVER CONNECTED
360Demo2	Christian Cressman	secEnterprise:	NEVER CONNECTED
Training_CO	Christophe Ochin	secEnterprise:	NEVER CONNECTED
Juntalan	Joanne Untalan	secEnterprise:	8/14/17
Cmasquellier	Chloé Masqueler	secEnterprise:	6/30/17

Document and Instance Volume

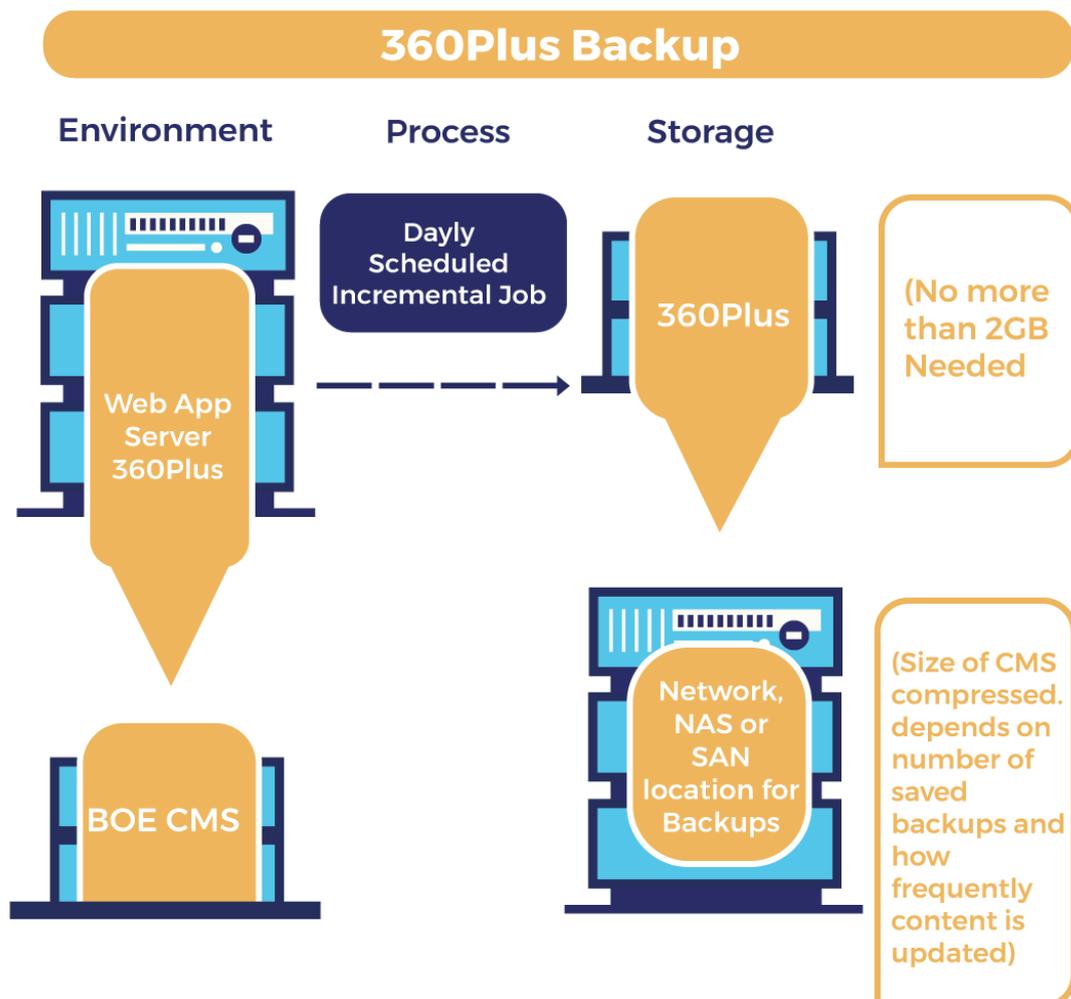
Folder Group	Document Count	Instance Count	Document Size (MB)	Instance Size (MB)
/Inboxes/	23,936	45	8,374.41	6.23
/Root Folder/	3,128	4,434	1,667.77	1,162.90
/User Folders/	51,764	10,274	26,604.94	11,261.40
SUM:	78,828	14,753	36,847.12	12,430.53

Sample 360Eyes Report for BI on BI Assessment

STEP 2: BACK UP THE CURRENT ENVIRONMENT

Backing up the current environment before migrating SAP BusinessObjects to the cloud safeguards the process.

SAP BusinessObjects deals in large, inflexible Business Intelligence Archive Resource (BIAR) files comprised of many objects. A typical SAP BusinessObjects recovery strategy includes backing up the entire SAP BusinessObjects server and CMS database. This allows the full system to be restored in the event of a server crash, but it is not suitable for selective rollbacks or for restoring individual deleted objects. It also fails to address corrupted environments—if an environment is corrupted, so too is the mirrored backup! Finally, full backups may impact platform availability and take down environments for several hours. 360Suite includes a powerful and flexible backup solution that creates one BIAR file per object. The first time 360Suite runs, it performs a full backup. Every night thereafter, 360Suite runs delta and dynamic backups, which have low impact on the platform. Incremental backups enable selective rollbacks to previous versions of any object (personal documents, security settings, user, universe connections, etc.) at any time. Recovering at the object level gets corrupted environments up and running in minutes. 360Suite also includes a recycle bin from which any deleted object can be recovered, unlike the SAP BusinessObjects recycle bin, which cannot recover some objects (e.g., users).



Simple and Flexible 360Suite Backup Process

STEP 3: CLEAN UP THE CURRENT ENVIRONMENT

Investing time and energy into cleaning up the environment yields high returns. That's because less content results in easier, faster and cheaper SAP BusinessObjects cloud migrations.

360Suite provides solutions to optimize the environment by streamlining content. Not only does 360Suite identify unused or duplicated content, it also empowers the SAP BusinessObjects Administrator to act quickly on the findings and reduce content, typically by 40-60%.

360Suite can promote, delete or archive content in bulk, whereas SAP BusinessObjects has limited capacity to do so. Reducing the number of recurring instances before a migration saves bandwidth, and therefore money, down the road.

The image displays two screenshots of the 360Suite configuration interface. The left screenshot, titled "3. Delete Unused Documents", shows a "Job Task" configuration for deleting documents. It includes fields for CMS (SAPBI4DEMO), User Name (plancaster), Password (masked), Authentication (Enterprise), and Task Title (Delete Used Documents). The Job type is set to "Delete Documents" with a sub-note "To delete documents based on their ID or CUID." The Local File is set to "c:/temp/reports_delete.xlsx" and the "Delete By" option is set to "ID". The right screenshot, titled "4. Archive Instances", shows a configuration for archiving instances. It includes fields for CMS (SAPBI4TRAINING-6400), User Name (plancaster), Password (masked), Authentication (Enterprise), and Task Title (Archive instances). The Job type is "Archiving Instances" and the Local File is "C:\archiving_instances_pl.xlsx". The Destination path is "c:\instances" and the Formats are checked for PDF, EXCEL, and CSV. The "Remove extracted instances" checkbox is checked, and the Instance name is set to "%T-%D-%O".

Automate the Clean-Up and Archiving of Unused Content

STEP 4: OPTIMIZE SAP BUSINESS OBJECTS

Optimizing SAP BusinessObjects is another way to reduce content.

360Suite tunes up SAP BusinessObjects Webi reports through query stripping, which detects useless variables and universe objects. Query stripping is particularly useful for Webi reports that contain hundreds of variables and numerous data sources. Improving the efficiency of reports reduces data space (often by 30%), which lowers data transfer costs. Eliminating bugs in reports reduces regressions and paves the way to a smooth cloud migration. Without 360Suite, efficient and effective query stripping is nearly impossible. Another way to optimize SAP BusinessObjects is to send schedules and publications within the SAP BusinessObjects environment in native format, rather than externally to email as PDF or Excel files, which take up more space. 360Suite makes this possible.

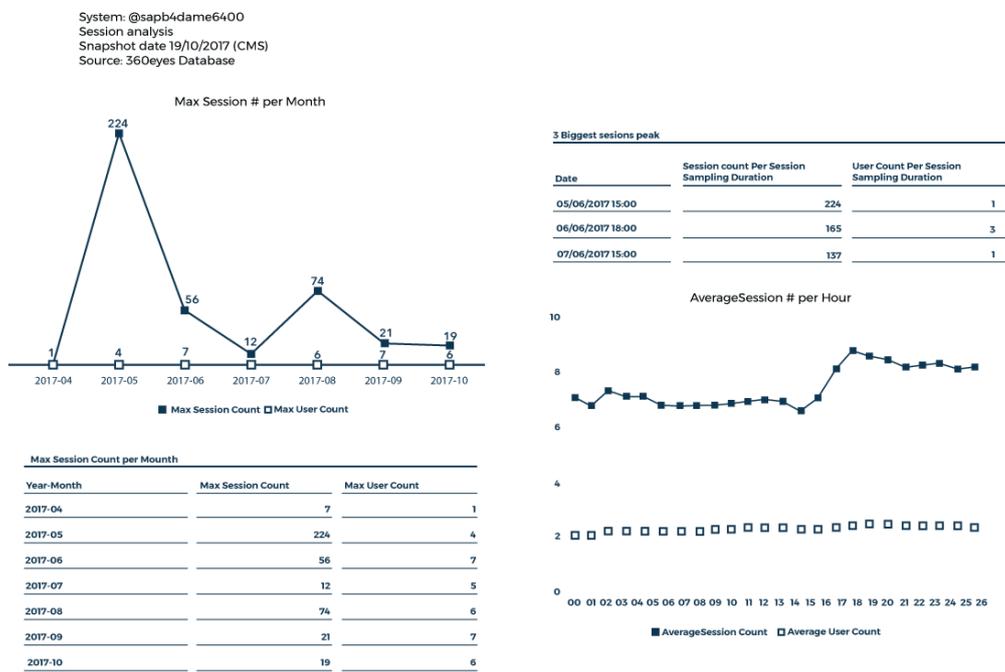
Finally, 360Suite provides a way to bulk update recurring instances, eliminating the need to manually change each schedule job. Export the list of recurring instances to Excel and update the local destination to the new destination. Then import the updated Excel file to bulk update your recurring schedules.

STEP 5: ANALYZE LICENSE POOL AND SESSION PEAKS

Analyzing the license pool and session peaks before migrating SAP BusinessObjects to the cloud highlights potential cost savings. That's because renewing unnecessary licenses or opting for the wrong license model wastes resources. So does maintaining peak server capacity when it's not needed.

360Suite provides valuable information about the historical use of Named User Licenses (NUL) and Concurrent Sessions (CSBL). Prebuilt Webi reports highlight needs and trends for the purpose of optimizing licensing pools—adding, renewing or ending licenses. 360Suite also provides valuable information about server use over time. Prebuilt Webi reports highlight peaks for the purpose of optimizing server utilization—switching servers off when not needed or reducing capacity during off-peak hours.

Analyzing the license pool and session peaks without 360Suite is like looking for a needle in a haystack.



Automate the Clean-Up Understand SAP BusinessObjects Utilization With 360Suite Archiving of Unused Content

STEP 6: DEVELOP A PLAN TO PROMOTE AND MIGRATE CONTENT

Migrating SAP BusinessObjects to the cloud is challenging without a good promotion strategy. Lifecycle management capabilities can be limited, especially for large promotions.

360Suite schedules promotions and migrates content in a logical order.

1. Access levels (security)
2. Groups and users
3. Connections
4. Universes
5. Documents
6. Everything else (calendars, events, etc.)

By creating one BIAR file per object, 360Suite enhances the flexibility of SAP BusinessObject sand promotes large content with ease. By flagging and scheduling promotions, 360Suite takes a challenging process and makes it transparent.

The screenshot displays the configuration interface for a promotion task in 360Suite, divided into three main sections: Source, Destination, and Options.

- Source:** Shows the task title "Promote to AWS" and "Promotion Task". The source type is "CMS" with source "SAPBI4DEMO", user "plancaster", and "Enterprise" authentication. A list of source elements includes Users, User Groups, Documents, Folders, Category Folders, Universes, Universe Folders, Connections, Connection Folders, QaaWS Folders, Custom Access Levels, Protects, and DataServices.
- Destination:** Shows the destination type as "CMS" with "Biar" as the destination. It includes fields for "User Name" (plancaster), "Password", and "Authentication" (Enterprise). A list of destination elements includes User Groups, Folders, Categories, Universe Folders, Connection Folders, QaaWS Folders, and Projects.
- Options:** A panel of checkboxes for migration settings: "Include subfolders" (checked), "Include contents" (checked), "Include security" (unchecked), "Instances" (unchecked), "Favorites & Inboxes" (unchecked), "Create New Objects" (unchecked), "Migrate with Flag" (unchecked), "Purge documents" (unchecked), and "Delta Mode" (unchecked).

Flexible and Easily-Managed Promotion Options to Migrate Content

STEP 7: COMPARE SOURCE AND TARGET ENVIRONMENTS

Migrating SAP BusinessObjects to the cloud raises the problem of how to handle content created or modified during the migration process. 360Suite gathers information from the entire SAP BusinessObjects landscape and takes deployment snapshots before, during and after a migration. This eliminates the need to freeze the source production environment during the migration process or to attempt to synchronize the source and target. By comparing snapshots and highlighting changes (deleted, modified or new content), 360Suite takes the guesswork out of the process and ensures that all content (security, metadata, universe content, etc.) migrates completely and correctly.

Compare your environments **Content that can be compared**

Compare CMS: Administrator@sapbi4.demo.gbs:64
 Compare with: Administrator@customer.internal:64
 Compare: Folders
 Choose a comparison hierarchy: Both Enterprise Folders Favorite F
 Different: ID CUID NAME

- Groups
- Users
- Folders
- Webis
- CrystalReports
- Deskis
- Categories
- Universe Folders
- Universes
- Connections

Only in Administrator@sapbi4.demo.gbs:6400	Only in Administrator@customer.internal:6400																				
76 items - 100 items per page - Search 1	46 items - 100 items per page - Search 1																				
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">TITLE</th> <th style="text-align: right;">cuid</th> </tr> </thead> <tbody> <tr> <td>0-World GBS sales</td> <td style="text-align: right;">AcLIYtB0ko5NvChf.4NRtJ0</td> </tr> <tr> <td>1-Continent GBS sales</td> <td style="text-align: right;">AV5JmHijJv5LsG5p1lpRX4s</td> </tr> <tr> <td>2-Country GBS sales</td> <td style="text-align: right;">AXwRsTp2GCZNvqCk3TPBaKw</td> </tr> <tr> <td>3-City GBS sales</td> <td style="text-align: right;">AebZZJ4TGytFnNWqUB7HmIo</td> </tr> </tbody> </table>	TITLE	cuid	0-World GBS sales	AcLIYtB0ko5NvChf.4NRtJ0	1-Continent GBS sales	AV5JmHijJv5LsG5p1lpRX4s	2-Country GBS sales	AXwRsTp2GCZNvqCk3TPBaKw	3-City GBS sales	AebZZJ4TGytFnNWqUB7HmIo	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">TITLE</th> <th style="text-align: right;">cuid</th> </tr> </thead> <tbody> <tr> <td>2.0</td> <td style="text-align: right;">AXFcouQrVORPjgUWNT05pql</td> </tr> <tr> <td>360gate portal</td> <td style="text-align: right;">AXIDPX4AsLhEISz_y3yTeQw</td> </tr> <tr> <td>360gate_clothes</td> <td style="text-align: right;">AVLuHe3EUopCknvt2etC4c4</td> </tr> <tr> <td>360gate_evol</td> <td style="text-align: right;">AWSwLhGZjdBAqg_qMTHAFGE</td> </tr> </tbody> </table>	TITLE	cuid	2.0	AXFcouQrVORPjgUWNT05pql	360gate portal	AXIDPX4AsLhEISz_y3yTeQw	360gate_clothes	AVLuHe3EUopCknvt2etC4c4	360gate_evol	AWSwLhGZjdBAqg_qMTHAFGE
TITLE	cuid																				
0-World GBS sales	AcLIYtB0ko5NvChf.4NRtJ0																				
1-Continent GBS sales	AV5JmHijJv5LsG5p1lpRX4s																				
2-Country GBS sales	AXwRsTp2GCZNvqCk3TPBaKw																				
3-City GBS sales	AebZZJ4TGytFnNWqUB7HmIo																				
TITLE	cuid																				
2.0	AXFcouQrVORPjgUWNT05pql																				
360gate portal	AXIDPX4AsLhEISz_y3yTeQw																				
360gate_clothes	AVLuHe3EUopCknvt2etC4c4																				
360gate_evol	AWSwLhGZjdBAqg_qMTHAFGE																				

Ensure Content Was Properly Migrated by Comparing Source to Target

STEP 8: AUTOMATE REGRESSION TESTING AND IMPACT ANALYSIS

Regression testing is the most time-consuming part of a migration project. It is also the most important part, because end-users must rely on the new outputs. Regression testing is particularly important when migrating SAP BusinessObjects to the cloud because a cloud migration project is normally initiated by IT, and must be accomplished without adversely impacting business units.

SAP BusinessObjects often manages sensitive data (financial, medical, personal), which is subject to regulatory requirements, including the need for regression testing that cannot be outsourced. Done manually, regression testing is tedious and risky.

360Suite automates wide-scale regression testing for faster and safer migration of SAP BusinessObjects to the cloud. When testing identifies regressions, 360Suite performs impact analyses to pinpoint affected objects, and bulk updates reports. Finally, 360Suite keeps track of the migration process to ensure due diligence.

Matching Documents: 10
 Nonmatching Documents: 3
 Broken Documents: 0

Analytical View Analytical View Differences
 Report View

Matching Documents

- 360eyes CMS - 05 Overloads summ
- 360eyes CMS - 06 Connections detz
- 360eyes CMS - 07 Users by Last Lo
- 360eyes CMS - 10 Folder Security M
- 360eyes CMS - 11 Universe Security
- 360eyes CMS - 12 Unjustified Explic
- 360eyes CMS - 16 Universe and Do
- 360eyes CMS - 17 User Group Mem
- 360eyes CMS - 18 Compare Folder :
- 360eyes CMS - 19 Compare Univers

Nonmatching Documents

- 360eyes CMS - 13 Document Sched
- 360eyes CMS - 14 Document and Ir



Automate Regression Testing to Guarantee Document Accuracy

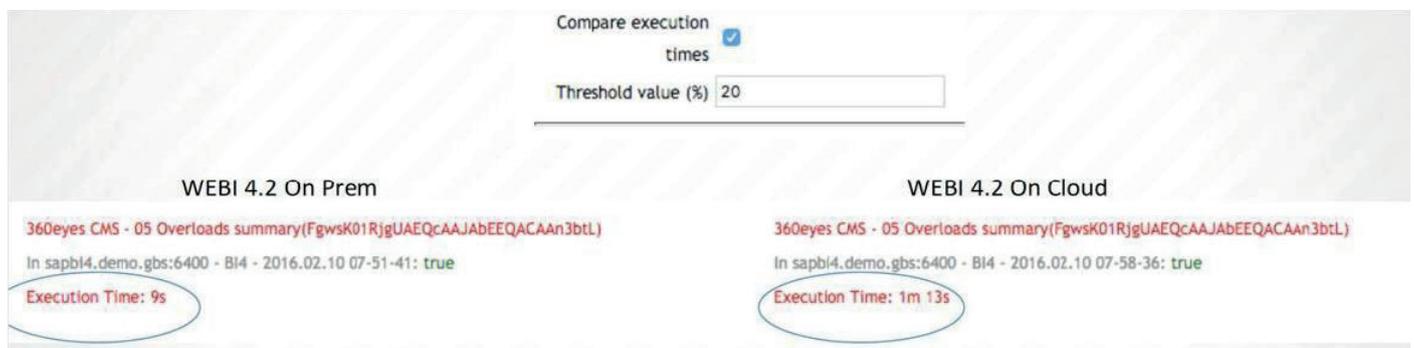
STEP 9: MONITOR PERFORMANCE

A major concern in cloud migrations is performance, and whether it matches or surpasses the same deployment on premise.

360Suite compares execution times of identical reports run on-premise and in the cloud to identify performance issues.

360Suite HTML 5 live monitoring also helps the BOBJ administrator troubleshoot the issues to identify the source(s) and develop a remediation plan. SAP BusinessObjects lacks tools to monitor execution times, making 360Suite the obvious solution.

[A recent white paper](#) explains how 360Suite extends the reach of performance testing software to all components of the SAP BusinessObjects platform and generates crystal-clear outputs needed to ensure an optimal end-user experience at the lowest possible cost.



*Highlight Differences in Document Processing Times
Between Cloud and On-Premise*

STEP 10: ENSURE SECURITY & REVIEW REGULATORY REQUIREMENTS

Cloud migrations are a good time for Chief Security Officers and managers to review security and regulatory requirements, which may include storing information in a particular location or maintaining specific security protocols.

360Suite maps the security structure before and after migrating SAP BusinessObjects to the cloud, down to the level of identifying broken and double inheritances. It answers the questions, “Who has access to what? When? Where? Why?”

360Suite also identifies data that is impacted by regulatory requirements so administrators can monitor and audit sensitive information during the cloud migration process.

The screenshot displays the 360Suite interface for security mapping. On the left, a tree view shows the organizational structure with folders like 'Sales Asia', 'Sales Europe', and 'Sales USA'. On the right, another tree view shows folders like 'Marketing Asia', 'Marketing Europe', and 'Marketing USA'. Below these is a table that maps permissions across different folders and user groups.

	Marketing	Marketing Asia	Marketing Europe	Marketing USA	Sales	Sales Asia	Sales Europe	Sales USA
Root Folder								
Marketing	View On Demand	View On Demand		View On Demand	Inherited			
Marketing Asia	View On Demand	View On Demand		View On Demand				
Marketing Europe	View On Demand	View On Demand	Full Control	View On Demand				
Marketing USA	View On Demand	View On Demand		View On Demand.View				

An arrow points from the 'Marketing' folder in the table to the 'Inherited' cell, and another arrow points from the 'Marketing Europe' folder to the 'Full Control' cell. A blue box labeled 'Explicit' is positioned below the 'Full Control' cell.

Easily Manage, Validate and Implement Security

CONCLUSION

360Suite by GB&SMITH is a set of solutions that facilitates the migration of SAP BusinessObjects to the cloud.

Alexandre Biegala and Sebastien Goiffon founded 360Suite as an alternative to the central management console. The 360Suite software evolved over time in response to client needs, and now includes solutions to streamline SAP BusinessObjects in the areas of governance, risk and compliance, backup and disaster recovery, promotion, migration, metadata, license compliance, bursting and regression testing. 360Suite saves customers up to 80% (time and money), and eliminates the need for post-migration assistance.

360Suite allows organizations to maintain control of platforms on a daily basis, which ensures a better experience for SAP BusinessObjects users and maintains readiness for future migrations.

360Suite helps organizations comply with regulatory requirements (FISMA, SOX, HIPAA, GDPR, etc.) by providing an accurate picture of who can access various resources. Finally, 360Suite empowers organizations to efficiently monitor, document, and secure SAP BusinessObjects deployments, on premise and in the cloud.

360Suite makes it easy to move SAP BusinessObjects to AWS or other cloud services provider, and to maintain a healthy cloud environment.

[Request a free trial](#)

Author: Bruno Masek



LAUNCH MY MIGRATION
WITH **360SUITE**
IN 3-2-1



Visit <https://360suite.io>