

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

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# Introduction

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Increasingly, organizations are opting to move applications and data to the cloud. Our [survey on BI trends](#) show that 57% of participants were concerned by the cloud for their BI (if we take into account those have already invested and those that plan to in the future). 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 Business Objects cloud migration.

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, Business Objects 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 Business Objects 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 Business Objects 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.

# 10 STEPS

## to Successfully Migrate SAP BusinessObjects to the Cloud



**1**  
Perform a BI on BI  
Assessment



**2**  
Back up the Current  
Environment



**3**  
Clean up the Current  
Environment



**4**  
Optimize  
Business Objects



**5**  
Analyze License Pool  
and Session Peaks



**6**  
Develop Plan to  
Promote and  
Migrate Content



**7**  
Compare Source  
and Target  
Environments



**8**  
Automate  
Regression Testing  
and Impact Analysis



**9**  
Monitor  
Performance



**10**  
Ensure Security  
& Review regulatory  
Requirements



## Step 1: Perform a BI on BI Assessment

Selecting the ideal cloud architecture and drawing up blueprints to move Business Objects 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 Business Objects?
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?

Business Objects has limited BI on BI capability via the admin cockpit, and the Business Objects 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.

Document Path	Document Cuid	Document Name	Action Count	Last Action Date	Days Since Last Action Date
/Root Folder/Seb/	Aal.euTrBhOrnEPp7tzWoc	Test	0	NO ACTION	NO ACTION
/User Folders/Admin/	Aff3_vjMRONMrGPEXlpuu8s	Universe Usage	0	NO ACTION	NO ACTION
/User Folders/Tony/	AfDWFkz_uxFNtubVuWC0ezs	Contact Status	12	05/27/2019	0
/Root Folder/360Bind/	ASOmKYUk.nZKvj8kAXeXlc	Sales Report	5	05/25/2019	2
/Demo Yasmina/	AfLS7IDzpmJKS4819ThaC2Y	Demo 360Eyes	8	05/25/2019	2
/Demo Remi/	Ac5yUMKEmdRLodwKutk13DI	Demo 360Plus	7	05/22/2019	5

User Name	User Type	User Last Login
Allen	secEnterprise	NEVER CONNECTED
Guest	secEnterprise	NEVER CONNECTED
Administrator	secEnterprise	04/11/2018
Alan	secEnterprise	04/11/2018
Bob	secEnterprise	26/10/2018
Danny	secEnterprise	19/09/2018
Leonard	secEnterprise	11/09/2018
John	secEnterprise	29/08/2018
Julien	secEnterprise	10/04/2018

Sample 360Eyes Report for BI on BI Assessment



## Step 2:

### Back Up the Current Environment

Backing up the current environment before migrating Business Objects to the cloud safeguards the process.

Business Objects deals in large, inflexible Business Intelligence Archive Resource (BIAR) files comprised of many objects. A typical Business Objects recovery strategy includes backing up the entire Business Objects 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 Business Objects recycle bin, which cannot recover some objects (e.g., users).



### 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 Business Objects 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 Business Objects Administrator to act quickly on the findings and reduce content, typically by 40-60%. 360Suite can promote, delete or archive content in bulk, whereas Business Objects has limited capacity to do so. Reducing the number of recurring instances before a migration saves bandwidth, and therefore money, down the road.

#### Archive Instances

**Source**

Source Kind: File System

Import Template

Upload File

Uploaded File  Shared File

+ Choose

Uploaded file: archive.instance\_InstancesToArchive.xlsx

Instance Destination: c:/ArchedInstances

System Credentials:

Archive Instances older than (days): 0.00

Remove extracted instances:

Instance names:

Formats: Formats

**Process**

#### Source Object Removal

**Source**

Source Kind: File System

Import Template

Upload File

Uploaded File  Shared File

+ Choose

Uploaded file: source.business\_object.remover\_DocumentsToDelete.xlsx

Data to process:  CUIDs  IDs

*Automate the Clean-Up and Archiving of Unused Content*



## **Step 4:** Optimize Business Objects

Optimizing Business Objects 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 Business Objects is to send schedules and publications within the Business Objects 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 scheduled 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

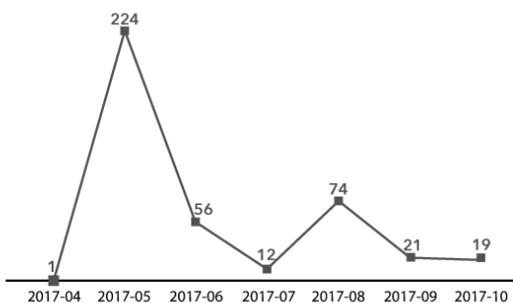
Analyzing the license pool and session peaks before migrating Business Objects to the cloud highlights potential cost savings. That's because renewing unnecessary licenses or opting for the wrong license model wastes resources. So does maintaining peak server capacity when it's not needed.

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.

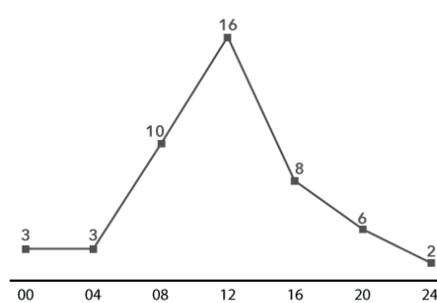
360Suite also provides valuable information about server use over time. Prebuilt Webi reports highlight peaks for the purpose of optimizing server utilization—switching servers off when not needed or reducing capacity during off-peak hours.

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

**Max Sessions Per Month**



**Average Sessions Per Hour**



*Understand Business Objects Utilization With 360Suite*



## Step 6:

# Develop a Plan to Promote and Migrate Content

Migrating Business Objects 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 Business Objects and promotes large content with ease. By **flagging** and scheduling promotions, 360Suite takes a challenging process and makes it transparent.

**Add task**

Parameters Frequency Modes **BOBJ Promotions** Notifications Trigger Events Confirmation

Category  
 Public Folder  
 QaaWS Folder  
 Universe Folder  
 User  
 User Group

**Promotion Options**

Filter on object description

**Public Folder Options**

Include sub-containers  
 Overwrite by name  
 Include security  
 Include public documents

**Public Document Options**

Overwrite by name  
 Include security  
 Include public instances

**Public Instance Options**

All instances  Recurring instances only  
 Overwrite by name

**Add task**

Parameters Frequency Modes BOBJ Promotions Notifications Trigger Events Confirmation

**Credentials**

Title: \* Promotion task  
Description:

**Source**

Source Kind: \* CMS  
CMS: Inowicki @ sapbi42demo (sapbi42 demo)

**Destination**

Destination Kind: \* File System  
Folder Path: \*  
System Credentials

*Flexible and Easily-Managed Promotion Options to Migrate Content*



## Step 7:

# Compare Source and Target Environments

Migrating Business Objects to the cloud raises the problem of how to handle content created or modified during the migration process.

360Suite gathers information from the entire Business Objects 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**

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

**Content that can be compared**

- 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	
TITLE	cuid	TITLE	cuid
0-World GBS sales	AcLIYtB0ko5NvChf.4NRLJO	2.0	AXFcouQrVORPjgUWNT05pqj
1-Continent GBS sales	AV5JmHljJv5LsG5p1lpRX4s	360gate portal	AXIDPX4AsLhEISz_y3yTeQw
2-Country GBS sales	AXwRsTp2GCZNvqCk3TPBaKw	360gate_clothes	AVLuHe3EUopCknt2etC4c4
3-City GBS sales	Aeb2ZJ4TGYtFnNWqUB7Hmlo	360gate_evol	AWSwLhGZjdBAqg_qMTHAFGE

*Ensure Content Was Properly Migrated by Comparing Source to Target*



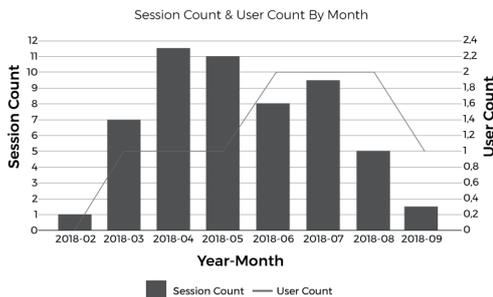
## Step 8:

# Automate Regression Testing and Impact Analysis

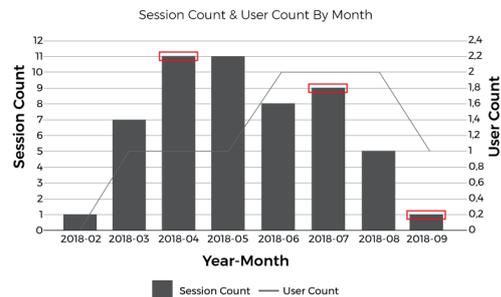
Regression testing is the most time-consuming part of a migration project. It is also the most important part, because end-users must rely on the new outputs. Regression testing is particularly important when migrating Business Objects to the cloud because a cloud migration project is normally initiated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

Business Objects 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 Business Objects 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.



Year-Month	Session Count	User Count
2018-02	1	0
2018-03	7	1
2018-04	11.5	1
2018-05	11	1
2018-06	8	2
2018-07	9.5	2
2018-08	5	2
2018-09	1.5	1



Year-Month	Session Count	User Count
2018-02	1	0
2018-03	7	1
2018-04	11	1
2018-05	11	1
2018-06	8	2
2018-07	9	2
2018-08	5	2
2018-09	1	1

*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. Business Objects 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 Business Objects platform and generates crystal-clear outputs needed to ensure an optimal end-user experience at the lowest possible cost.

360Suite

Test 360Bind v2 (AcasUGXgfEIGpTp6IXCQWnk) Execution Time: 11

Test 360Bind v2 (AZdit6eyTHplo9SjTghu2CI) Execution Time: 12

Update task

Parameters Frequency Selection **Comparison** Notifications Trigger Events Confirmation

**Binding**

Document Binding Method : \* Name

**Comparison Options**

Report Binding Method : Name

Compare Data :

Compare Numeric Values :

Ignore White Space :

Image Comparison Level : \* Low Precision

Compare Style :

Compare Structure :

Compare Execution Time :

Time Difference Tolerance : 10 %

*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 Business Objects 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.

BOBJ Security Matrix								Save Security Zone	<input type="checkbox"/>	Bulk update	Exports
	Explicit security	Administrators	Marketing	Marketing Asia	Marketing Europe	Marketing USA					
Root Folder		Advanced, Full Control									
Marketing		Full Control	Full Control	Full Control	Full Control	Full Control					
Marketing Asia		Full Control	Full Control	Full Control, View	Full Control	Full Control					
Marketing Europe		Full Control	Full Control	Full Control, Copy	Full Control, View On Demand	Full Control					
Marketing USA		Full Control	Full Control	Full Control	Full Control	Full Control, View On Demand					
Universes		Full Control									

*Easily Manage, Validate and Implement Security*

# Conclusion

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360Suite is a suite of **agile governance solutions** for SAP BusinessObjects developed by Wiiisdom.

At Wiiisdom, we transform your **Analytics landscape** into a **reliable** place to make **better, trusted decisions** every day and maximize your data assets.

360Suite is a set of solutions to ensure **quality, reliability, performance, and efficiency** of SAP BusinessObjects through testing, auditing, monitoring, cataloging, and scheduling methodologies. 360Suite is designed for large organizations looking to **mitigate data risks**, automate operations, and is the solution of choice for any migration project.

[Prepare your Business Objects Cloud Migration with 360Suite](#)



Ebook

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TO MAINTAIN A **HEALTHY**  
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**SAP BUSINESS OBJECTS TO THE CLOUD**

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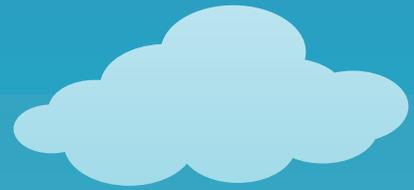
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