

Stairways to the Cloud A Customer Experience



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Agenda

- BNP Paribas Presentation by Abdelhakim LOUMASSINE
- Project Presentation: Rethink our development cycle by Eric BARTOLONE





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Project GOAL: Rethink our development & test cycle

- Decrease the resources currently allocated and machine consumption average
- Optimize the workload of non-production environments.
 - reduce / rationalize / remove mainframe operations tasks
 - For example, test batch running in integration environment with complete databases resources
 - -OK for new business
- Deliver environments of quality, offering autonomy and flexibility for carrying out the tests.



Main tasks to meet the goals

- Task #1 : redefine the lines of business and business activities.
- Task #2 : Create and duplicate environments for the integration test phase within in a short timeframe.
- Task #3 : Restore the qualification environment to its original role : the validation of the project delivery.





Focus on Qualification

- Non-production and production partitions sharing the same machine (GCL). Done at first for:
 - Cost reduction
 - Cpu usage optimisation.

Secure the production when all partitions request CPU:

- reviewing the Workload Policy \rightarrow priority to business
- applying the following action plan on non production partition when CPU is required:
 - Lower the Define Capacity
 - Transaction stop
 - Critical path batch stop

Actual Mainframe Environments & Applications life cycle



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Data/Files & Masking





Challenge #1 : System fundation

Provide an automated and reproducible procedure:

- To build an environment with a set of applications
- For the integration phase.
- Within a short timeframe.
- GOAL in 2 days !

Part done by IT provider :

- –Partition provisioning (CPU, Memory, Disk Space) & System Installation (z/Os)
- -Software Installation
 - Subsystems: IMS, DB2, CICS, MQ
 - Products (PDSMAN)
 - Security (Racf or Top Secret)
 - Databases ("create table",...)
- System connectivity
 - Network (IP, Firewall, CFT, MQ, IMS Connect,...)



Challenge #2 : Application fundation « IS Core »

Part done by LOB Integration team Create a base application called "IS Core": reduced in details (but compliant) planned and managed. Line of Business should provide: Applications (code) Application dependencies (Child and Parents Path) Data reduction rules Starting consideration (empty table/files) Schedule rules (ie Cut-off) Integration teams will do the installation &

- startup
 - Not necessary skilled to manage this task alone.



Partition is ready to use for business projects !!



Core

Data

Files

Challenge #3 : Application « on demand »

- Part done by LOB Project team Application Provide automated procedures for activation/de-activation of Files application scopes outside "IS Data Core" -Create/Modify/Update/delete the application set: • Applications (code with new functional level) • Application dependencies (Child and Parents Path) Data reduction rules Starting consideration (empty) table/files) Schedule rules (ie Cut-off) Project team does everything: -Provide code, install and start.
 - –Push button: skills required !!!

LOB Project team wants to be self-sufficient.

Core

Ap1

Core

Ap2

Core

Арх



Solution : New Integration platforms.





Result

• How the reality came to us !!

-The creation of the « master » BHP1 lasted 3 months

-2nd test phase took 20 days



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Main Lesson Learned

Cross-division teaming is mandatory !

System teams:

- Didn't understand our needs. Need to adopt same language.
- Automation requirements were not clearly exposed
- Missing Software licence on partition (ie CICS; PkZip)

BHP Project team:

- Distributed side was forgotten at the beginning of the project (distributed part : external client, branch offices)
- More funding and time was required for the new needs

Line of Business:

- Application portofolio managers have difficulties getting the rights informations
- Not reliable concerning/Difficulties to get the correct documention :
 - Applications dependencies.
 - Data reduction processes.
 - Starting conditions.
- Engagement date for partition availability.
- Difficult to work on a combined timeline for partition availability



Where is my z/OS Based Cloud?



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Next Steps : Where is my z/OS based Cloud?

 We have now all standalone procedures to start building a cloud reference and duplicate it.

-Solution: disk copy & masking & DB reduction (Optim TDM)

- To make a cloud, we need to tie all the processes together and to organize them around a unified interface – Push Button.
 - Everything must be automated to allow different skilled teams to do it
 - -Solution studied: IBM Cloning tool, internal IBM PSSC solution (based on TWS)
- The global environment must be integrated, including the distributed part.
- This must be evolutive & scalable (integration of a new subsystem version, ...)



Next Steps : Where is my z/OS based Cloud?

•Use this « master » to create development environment for RD&T and expend the use of RDz.

-Lead us to « devOps » in the futur