

IBM Systems and Technology Group University 2005





How to Run a Successful SCON Study

Course #:

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Learning Objectives

Student learning objectives for this education module





Learning Objectives: this education will enable you to:

- Distinguish between the Content and Value of the "SCON" (TCO) Study Offerings from IBM
 - with emphasis on the "Zodiac" offering
- Identify and qualify productive engagement opportunities
 - Match the value of an offering to the need of the situation
- Build teams that are fully skilled to deliver an effective offering
 - With excellence, expertise, and experience





Agenda

- Distinguish between the Content and Value of the "SCON" TCO Offerings from IBM
- Sample Bus.Case Issue: "staff cost reduction"
- Identify and qualify productive engagement opportunities
- Build teams that are fully skilled to deliver an effective offering





Terminology I:

SCON: Server Consolidation

- Reduction of Physical and Logical servers
- "SCON" is "merely rehosting and cost cutting"
- SO, use "TCO Study" or "Infrastructure Simplification", not "SCON"

IT Rationalization

 Rearrange servers, storage, the entire functional topography to improve efficiency. e.g. shared dev/test farm, shared failover, SAN & SVC, IXA,..

IT Optimization

 Re-evaluate IT Architecture and organisation and processes and governance to improve efficiency & effectiveness.





Terminology II:

TCO: Total Cost of Ownership

PCO: Partial Cost of Ownership

 Note that TCO can include cost of downtime (wasted employees hours & lost business opportunities). This does concern the CEO, but the CIO is concerned to make IT effective, and efficient as measured on IT Budgets. So, "PCO" is: costs that are on the IT Budget, and are affected by rationalization.





TCO Study Process:

Scope

- Does the scope include only specific platform, specific solutions?
- Check both current and subsequent requirements

Server Data Collection

- ..& storage & financial & BoC* & ...
- automated, estimated, or recorded
- at single server level or at solution level

Financial Data may be needed and/or available

predicting future costs: fixed method, or adaptable?

"Solutioning"

- Is this a cost problem, or a design problem, or a financial justification problem?
- What degree of novelty is admissible?

Output

- What is the expectation of the volume, and accuracy:
- Is the emphasis on discovery, assessment, design, cost justification, or implementation?





Automated Data Collection:

IBM: CDAT

New version discovers Unix as well as Windows servers

IBM: IDD

Windows / Linux based set of tools for discovery

ISI: Snapshot

Peregrine: Xanadu

Ecora: Ecora

Platform Computing: Platform

The above are 3rd party commercially available server discovery tools

Restrictions

- In general all use WMI or SNMP-based "MIB" for data collection
- WMI, Agents and network security can partly restrict access
- Agent-based data collection is most comprehensive Server-based is obviously more suited for discovery of unknown servers
- Some data cannot be collected automatically
 - financial, ownership, service level, future plans





Positioning:

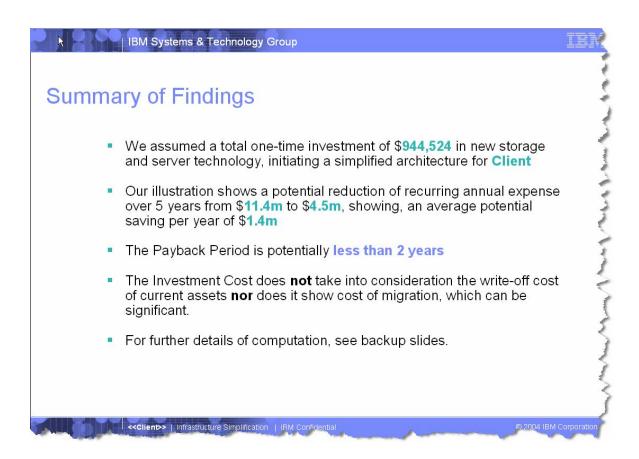
	Mini- ALIGN	TCOnow!	ISIG Z.subset	Zodiac	Scorpion Z.superset
Scope	Intel to xSeries	Specific Solution	Specific Solution	Tailored	Tailored
Input	Individual server data	Solution- level data	Solution- level data	Individual server data	Individual server data
Costs	RoT	RoT with client data	RoT	RoT plus client data	RoT plus client data
Savings	Simple	Yes	Yes	yes, plus client rules	yes, plus client rules
Solution	AMO*	AMO*	AMO*	AMO*	AEHVAMO**
Output	Cost & benefit	Full reporting	15pg PPT	50pg PPT	150pg PPT

^{*}A Miracle Occurs **An Extremely-High-Value-Added Miracle Occurs, alternative designs, design and business benefits, etc.





4 Typical Slides from a Brief TCO Study Report (I)







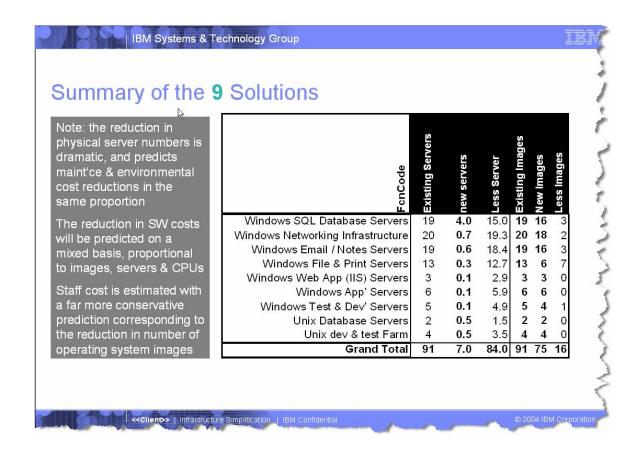
4 Typical Slides from a Brief TCO Study Report (II)

win-SQL: 5-Years Windows SQL Database Servers: 5-Years 4,500,000 5 yr Cost Total Alt.Case **Base** 4,000,000 .Server Cap-Ex Server Growth Cost 0 54,830 Server Refreshment Cost 0 3,500,000 ...Server Run-Costs Server Mgmt Cost 575,494 579,390 3,000,000 Server Maintenance Cost 198,309 59,278 Server Facilities Cost 172.083 33,274 2,500,000 [Server Dep'n excluded] Server SW Cost 1,896,222 592,924Storage Costs 2,000,000 Storage Growth Cost 366,337 240,276 24,028 Storage Maint Cost 36,634 1,500,000 Storage Mgmt Cost 1,038,133 77,184One Time Costs 1,000,000 HW & SW Purchase Cost 0 616,716 Server Disposal Cost 0 500,000 Server Migration Cost 0 Net Cash Investment 616.716 524,406 Avg Annual Saving over 5yrs Alt.Case Base Tot. Saving over 5yrs 2,005,313 %age Saving over 5yrs 47% ■ Server Migration Cost ■ Server Disposal Cost ■HW & SW Purchase Cost ■ Storage Mgmt Cost ■ Storage Maint Cost ■ Storage Growth Cost Replacement Current Alt.Case Server SW Cost ■[Server Dep'n excluded] ■ Server Facilities Cost Intel/4 x445/4 MP server type ■ Server Maintenance Cost ■ Server Mamt Cost ■ Server Refreshment Cost **#Lsrv servers** 19 16 ■ Server Growth Cost **#Psrv servers** 19 25% 39% average util'n





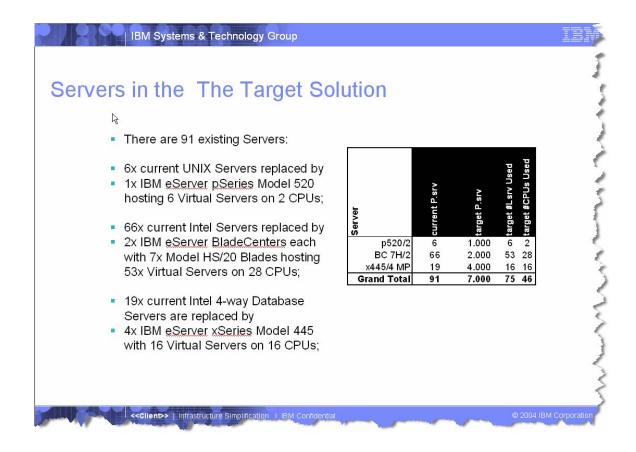
4 Typical Slides from a Brief TCO Study Report (III)







4 Typical Slides from a Brief TCO Study Report (IV)







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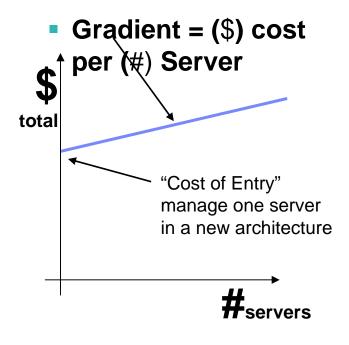
Pictures of Staff Cost I: Reduced What? - "FTE"



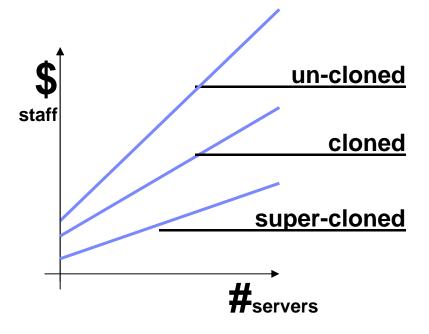




Pictures of Staff Cost II: # Servers per Person



Staff-to-Server Ratio Theory courtesy David G Heap







Pictures of Staff Cost III: RNIB

RNIB

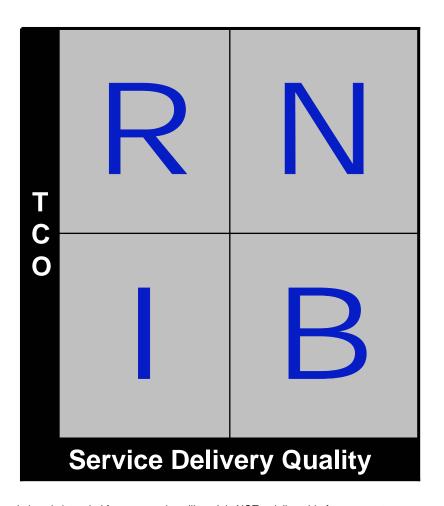
Retail / Nirvana / In-Trouble / Banking

4 Quadrants

RN Upper quadrants: Low TCO IB Lower quadrants: High TCO

RI Left quadrants: Low Quality NB Right quadrants: High Quality

- Lower = Inefficient or Effective?
- Upper = Efficient or Ineffective?
- Non-Strategic View
- No indication of Business Value

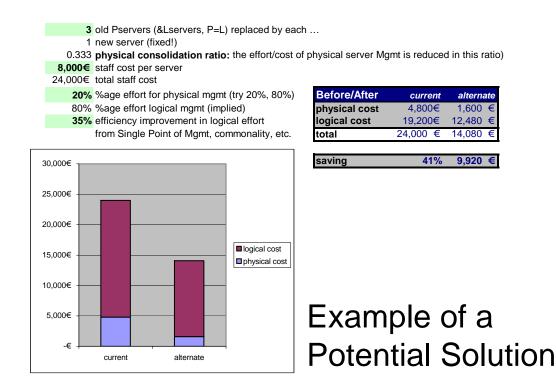






Pictures of Staff Cost IV: Value of Virtualisation

- Virtualisation is wonderful. Even "Mere" Physical Consolidation
- How could you quantify potential Staff Cost savings from Physical Consolidation?







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Identify and Qualify Opportunities

Propensity to Change

- Cost reduction targets have been set?
- New IT Director "righting past wrongs"
- Cross-business-unit ownership for infrastructure
- Data Centre consolidation (& NW Investment) invites "SCON"

Need to Change

- DR arrangements fall short of DR requirement
- (Imminently) Obsolete systems may soon become unsupported
- One of SAN-based technical architecture or Server Consolidation leads onto the other

Perceived Benefits of Change

- Estate is old, low NBV, high HWMA, easily virtualised
- Virtualisation leads to automation, provisioning, utility pricing,...





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TCO Study Team Building:

The Lead Consultant

- Trusted Advisor, creates & communicates the vision
- Directs emphasis between assessment, design, business case,...

The Technical Architect

- Earns trust of the client Technical Design Authority
- Understand current architecture, issues, and possibilities

The Financial Consultant

- Earns trust of client IT Finance
- Understands and implements variations working with...

The Data Analysis & TCO Toolset Wizard

 Understands client data sources, our complex tools (that he must have used before), produces information out of data, produces charts out of nowhere, watching his ThinkPad display induces nausea

The Project Manager

- The project must finish on time, and needs NOT wait for input (!)
- Essential when coordinating multiple sources more than 5 data sources, more than 10 interviews



23



Conclusion / Wrap-up

- IBM has a variety of strong offerings and excellent skills and tools, all derived from investment and experience in client engagements
- Consultative Selling brings the value of our business experience direct to the client
- Investigate and Validate the requirement first!
- Building a fully skilled team to deliver your TCO Study will facilitate your client to quantify the cost and value of the "pain and the vision", and accelerate their taking the next step forward to being an On Demand business



24



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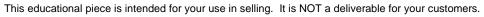
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