

When Linux On System z Upgrades Get Complicated

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Agenda

- ISO / Verisk Analytics overview
- Sles11 SP1 Upgrade Challenges
- Build the right TEAM
- Brainstorm session / Outcome
- Managing Roadblocks
- Implementation strategy
- Checkpoint Results measure progress
- Strategic Direction (Hosting for Enterprise)
- Summary





ISO / Verisk Analytics

- Risk Mitigation Analytics
- Data Analytics and Decision Support
 - Insurance
 - Healthcare
 - Mortgage
 - Catastrophe Modeling





IST Overview and Strategic Direction

- Mainframe
 - Z/196 and Z9 processors
 - Operating systems
 - 8 z/OS lpars
 - 6 z/VM lpars Hosting 300 SUSE linux guest
- 80 Solaris Unix servers
- Windows server 800+
- Member companies / infrastructure





IST Overview and Strategic Direction

- Why Linux ??
 - Cost savings
 - Organizational Virtualization Strategy
 - WebSphere application Hosting
 - Application isolation
 - Load balancing
 - High Availability
- New development efforts to leverage environment
- Re-platform other workloads





SLES 11 SP1 Upgrade Challenges

- Software currency issue
- Project workload dependencies
 - SLES11 SP 1 upgrade
 - Z/196 implementation
 - z/OS 1.12 Upgrade
 - WAS and WAS/XD upgrade
 - ESCON / FICON conversion
 - First Quarter Deliverables
 - Aggressive schedule
 - z/196 implementation
 - SLES 11 SP1 phase 1





Build the right TEAM

- Cross Training
- "All Hands on Deck"
- Involve other technical areas early in planning process
- Development group / QA cooperation
- Plan for success !!
 - Build a strong TEAM
 - Improve the PROCESS
 - Deliver a quality work PRODUCT





Brainstorm Session / OUTCOME

- Identify project timeline (z/196 and SLES11)
- Identify an implementation strategy
- What process do we need to improve to succeed?
- Identify project task !!
 - z/196 implementation task
 - SLES 11 SP1 Phase 1 task
 - Team roles and responsibilities





Manage the Roadblocks

- Escalation to Vendors
- Team discussion to address issues quickly.
- What issues did occur ??
 - http Linux guest
 - Edge server Linux guest
 - Distributed Scheduling product
 - OSA
 - Crypto
 - z/196 implementation requirements
 - Need for alternate SLES upgrade server





Implementation Strategy

- Toleration
- z/196 Task list
- Build Parallel environment for Linux guest
- Golden Image (How many ?)
- Process improvement (scripts)
- Coordinate Cutover of Guest (all teams!!)
- Timeline
- Process management (day to day activity)
- Daily stand up meetings





Checkpoint / Measure Progress

- Each week "build a story"
- Communicate completion of milestones
- Communicate outstanding issues
- Are we getting better ?? lessons learned





Strategic Direction

- Continue to leverage Linux on z
- Move more workload over to z/linux
- Enterprise wide application hosting
- New devlopment effort to exploit Linux





Summary

- Email ggarcia@iso.com
- Due Diligence
- Team / Process / Product
- Make the next upgrade project simpler

