



Agile for Legacy to SaaS Migration: 10 Key Considerations - Raja Bavani



- Introduction
- SaaS: The Basic Building Blocks
- Legacy to SaaS Migration: Benefits and Challenges
- Ten Key Considerations
- Q&A

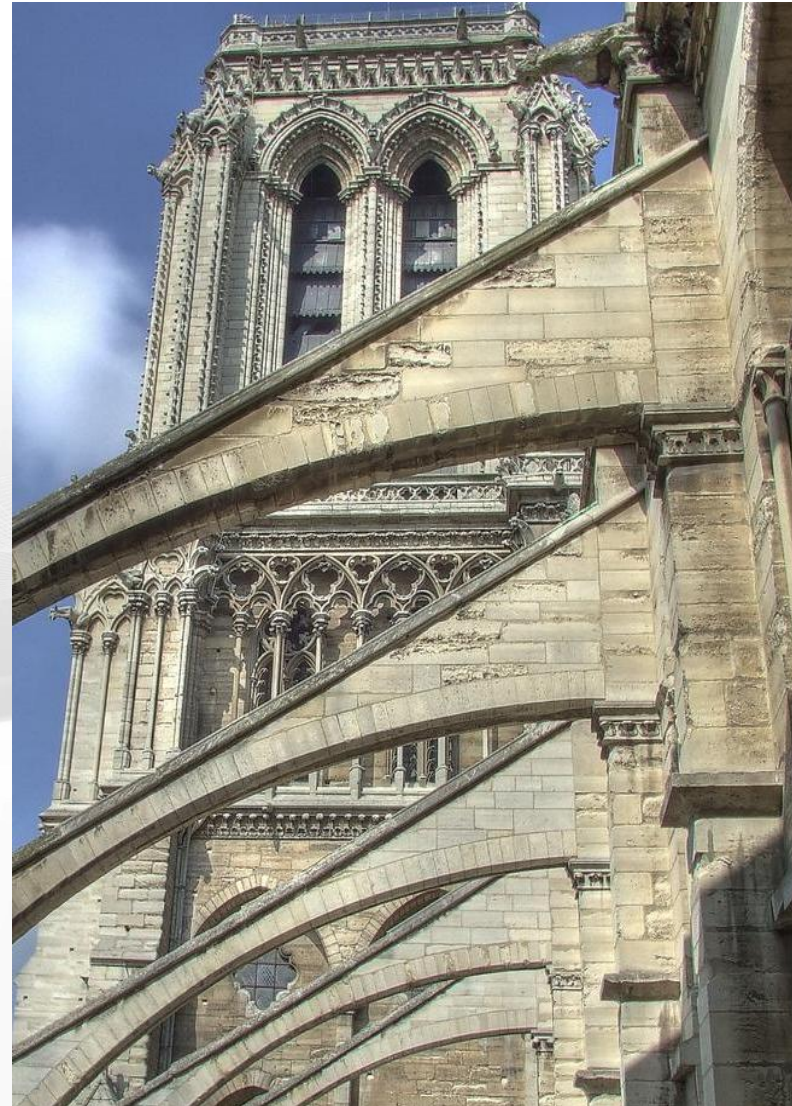
Introduction

The startups of the Internet era & the eventful decade!



SaaS: Basic Building Blocks

- Multi-tenancy
- Security & Privacy
- Configurability
- Scalability
- Compatibility
- Ease of Integration
- Standards
- Robustness



Legacy to SaaS Migration: Benefits & Challenges



- High Scalability
- Rapid Deployment
- Cost-effective Model
- Ease of Upgrade
- Reduced Support



- Legacy Code & Design
- Re-engineer or rewrite?
- Data Migration
- Integration



These will help you answer

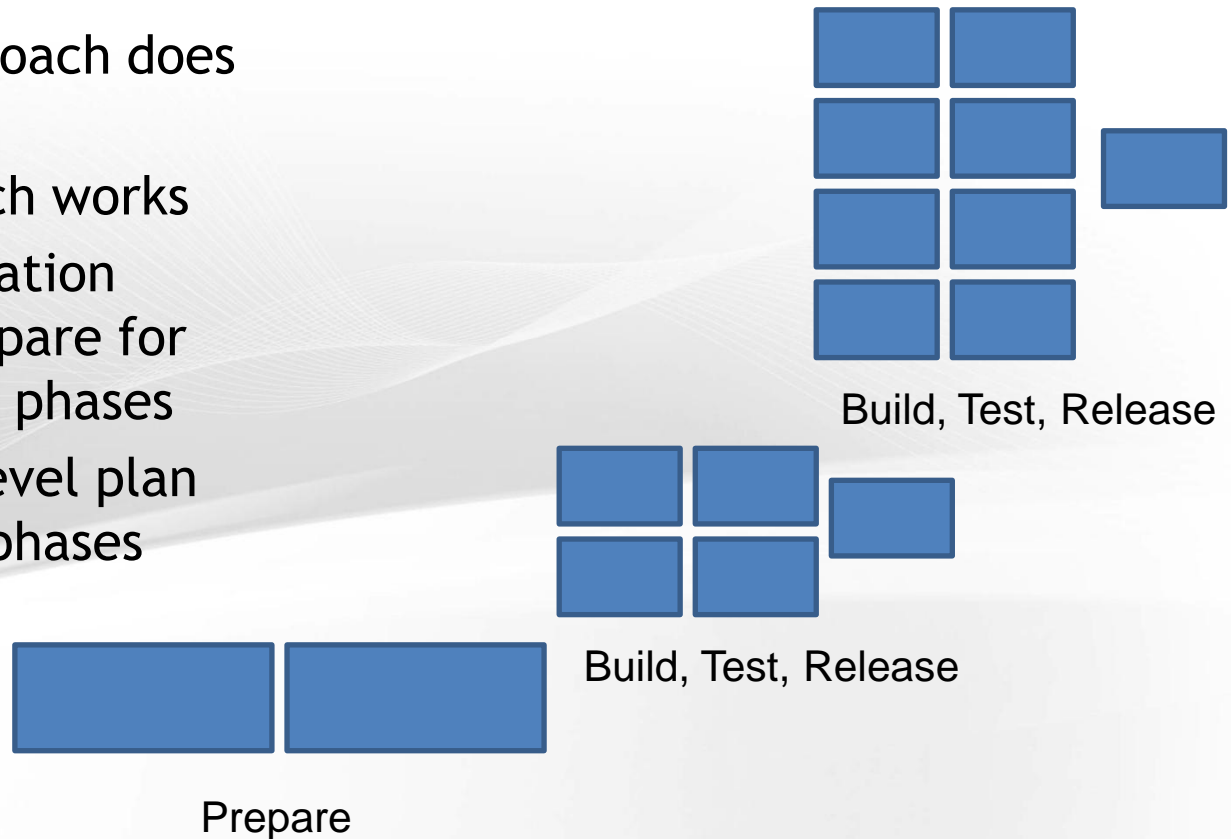
- How to start ?
- What strategy to follow ?
- How to validate ?
- How to manage risks ?
- How to avoid failures ?
- ..and many such questions !



1. Divide and Conquer



- 'Big Bang' approach does not work
- Phased approach works
- Consider foundation phase(s) to prepare for the subsequent phases
- Derive a high level plan of subsequent phases



2. Be Agile



- Follow Agile principles within each phase
- Agile improves visibility and predictability
- Use as many agile best practices that suit the context



3. Theme Based Iterations



- Legacy to SaaS migration projects involve many categories of related activities (Data Migration, Customization, Compatibility Testing, Compliance, Integration, etc.,). Consider theme based iterations.



4. Architecture Prototyping

- A technique to validate product architectures at early stages by means of implementing architecturally-significant user stories first
- Architecture prototyping reveals the strengths and improvement areas of architecture



5. Inspection Driven Focus on Quality

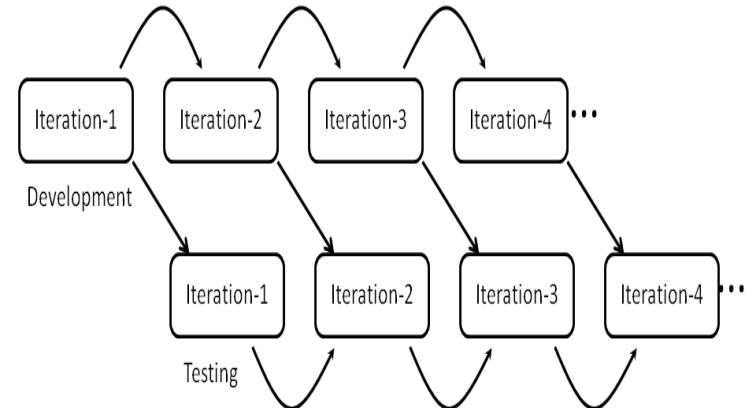
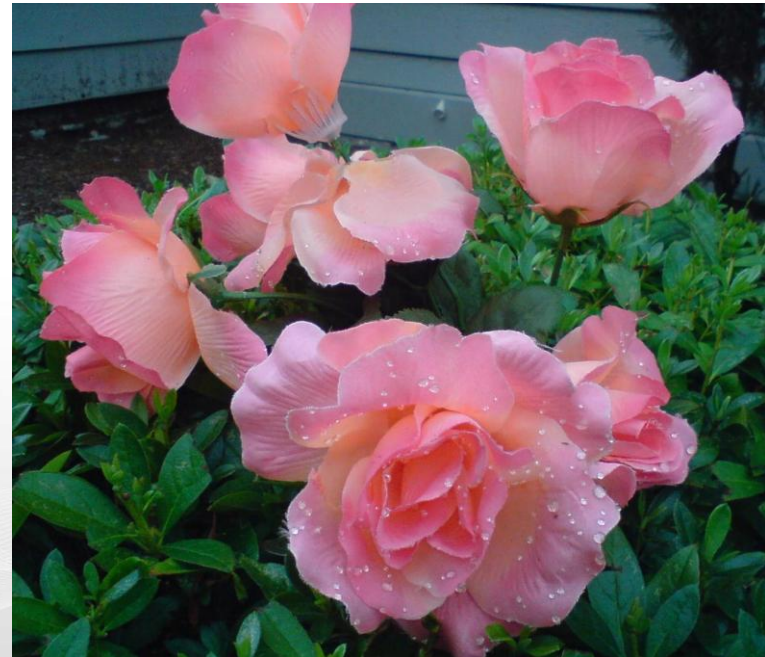


- Inspection and review of code, configuration file, look-up data, etc.
- Automated review or static analysis tools will improve productivity. Physical inspections are necessary as well.



6. Staggered QA and Independent QA

- Staggered QA: Functional Testing & Acceptance Testing
- Independent QA: Compatibility Testing, Security Testing, Performance Testing, Regression Testing, etc.



7. Create Tools



- Legacy to SaaS migration projects involve categories of tasks such as data migration, data imports, etc.
- Home-grown tools improve productivity as well as quality in such categories of tasks
- Examples: Schema validation, Verification of look-up data, verification of configuration files, import/export of data



8. Automated Web Services Testing



- Web Services are most commonly found in SaaS based products
- Investment in Web Services testing improves the quality of integration



9. Risk Based Testing

- Risk Based Testing addresses high risk areas first
- That will help you in finding solutions proactively



10. Knowledge Management



- Legacy to SaaS migration projects are highly complex
- Team members need to know the business domain as well as technology
- Implementing KM practices is essential



Any Questions ?





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