4 steps to build a successful e-commerce platform

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agenda

- randstad holding & randstad IT solutions
- our expertise
- the 4 steps to building a successful e-commerce platform
- sonepar e-commerce success story
- questions





our global presence



represents over 90% of the global HR services market.

Americas

Argentina

Brazil

Chile

Mexico

Uruguay

Australia

Hong Kong

China

India

Japan

Malaysia

Singapore

New Zealand

United States

Asia pacific

Canada

Europe and Middle East

> Andorra Austria Belgium Czech Republic Denmark France Germany Greece Hungary Ireland Italy Luxembourg Monaco Netherlands Norway Poland Portugal Romania Spain Sweden Switzerland Turkey United Arab Emirates United Kingdom

randstad largest HR services provider worldwide.

€ 23.8
billion in revenue
38,820
corporate employees
668,800
people we help to work every day
212,200
permanent placements
4,858 offices
in 39 countries



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Randstad Canada is the country's largest staffing firm and the leader in the HR services industry.

With over 900 employees located across the country, we are a trusted human partner in the technologically driven world of talent.

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our organizational structure



randstad IT solutions - our main focus



- leverage the largest recruiter in Canada (150 IT recruiters)
- 1000 employees in Canada
- 5000 customers in Canada
- fix scope, T&M or Hybrid

- 100% on time & on budget
- possibility to hire resources after the project is completed

- migration to Azure, AWS, GCP
- cloudnative & serverless
- lift & shift
- architecture optimisation
- microservices
- on-demand resources
- · massive scalability

- accelerate deployments
- accelerate release frequency
- work faster and smarter
- CI/CD (continuous integration and delivery)
- agile methodology
- application refactoring
- team training

- web, mobile, E-commerce
- full stack
- automated testing
- .NET, React, Angular, Vue.JS, WPF, Java
- SQL, No DB, Service bus, WF

randstad IT solutions - unique in the market

no one else brings together all of our differentiators

in-house expertise

- project management
- architecture skills
- 40 person dev. team

"Dedicated talent available for projects"

flexibility & agility

- start-up mindset, project delivery custom & focused every time
- team construction best fit for each client

"every client is unique so each solution should be as well"

ability to scale

- direct access to most talent in Canada
- 150+ technical recruiters

"immediately and directly scale any IT project'

organizational stability

- present in 39 countries
- largest access to talent in Canada
- financially stable

"if a project is under stress we have the financial ability to invest and solve the problem"

knowledge retention

- mixed teams—jointly developed projects
- retain talent post project

"develop our client's talent or leave ours behind"

financial flexibility

- pay only for what you need
- direct access to talent—no margin stack
- access to global delivery

"with a flexible approach and direct access to external talent blended costs are below market"

4 steps to building a successful e-commerce platform:

- architecture design
- cultural change (devops/agile)
- implementation
- CI/CD





to the cloud and beyond.

randstad IT solutions





blessed who knows to take his time to go faster! « Inuit Proverb »

- remove the downtime
- upgrade the technology stack
- smooth transformation (no service interruption)
- no big bang



roadmap

- 1. proof of concept
- 2. microservices architecture evolution and Azure transition
- 3. open catalog website
- 4. B2B website migration
- 5. add the B2C version... ... and many more features



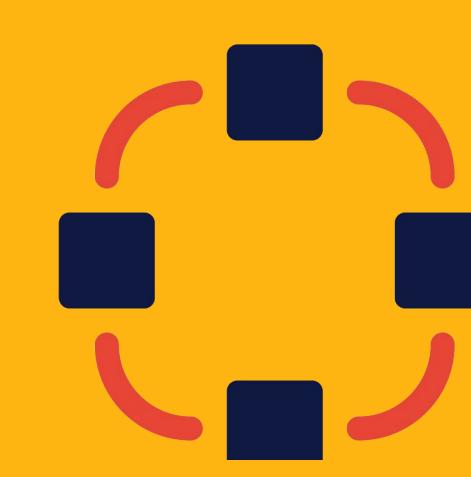
1. proof of concept

- feasibility
- cost assessment
- validate the benefits to the Line of Business :
 - cloud migration
 - microservices architecture

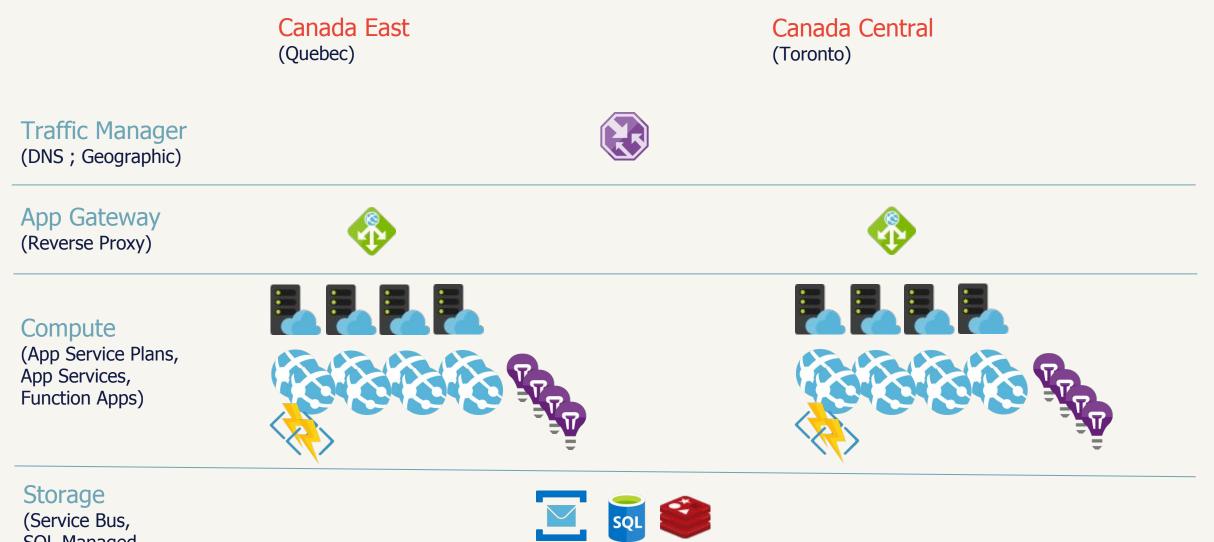


2. cloud architecture

- stabilize and then improve the current performance
- reduce the downtime by removing the dependencies to any internal system
- help the team to get familiarize with Azure technologies and a microservices architecture
- smooth migration
 - one microservice at a time leverage the « shadow » mode
- Infrastructure as code (IAAS)



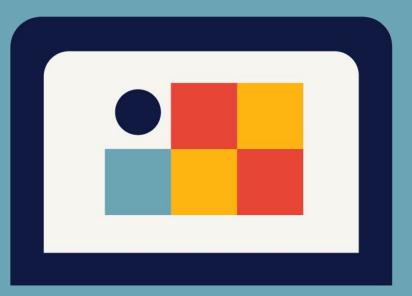
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(Service Bus, SQL Managed, Redis)

3. « open catalog » website

- build a new front-end website that consumes the microservices
- introduce a new features to the end-customers without altering the actual b2b website
- anticipate the rewrite of the b2b website:
 - The new website will be the foundation of the upcoming b2b website
 - Built for Azure
- introduce the mobile application



4. B2B website migration

• as-is in term of features

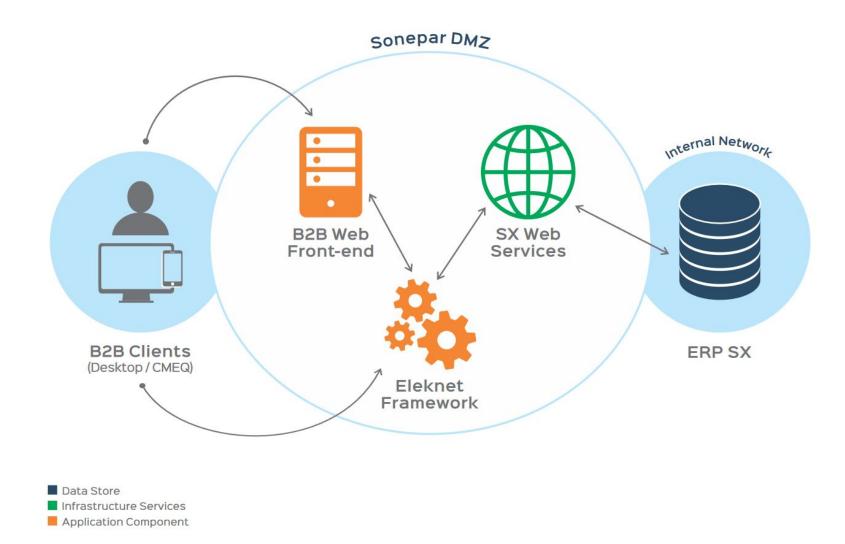
(some low-technical impact features have been added though)

- focus on the UX/UI experience
- improve the back-end
- SLA of 99.95%

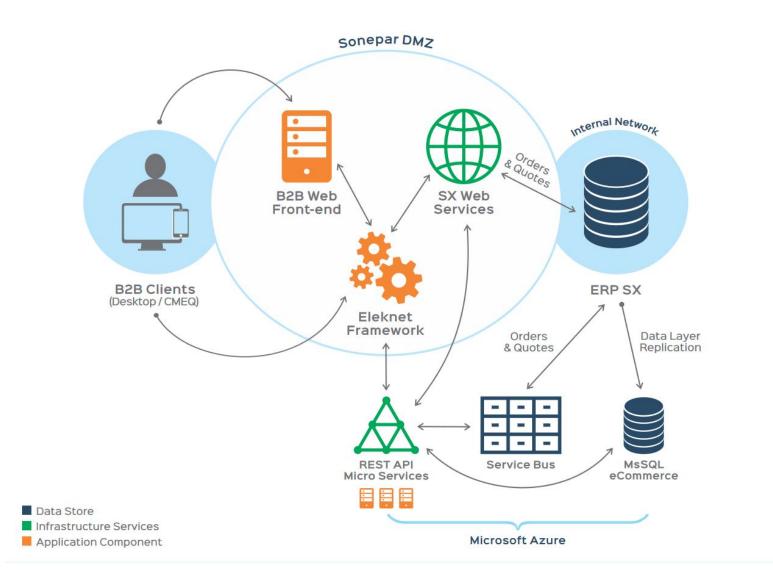
(<44 hours max of downtime per year)



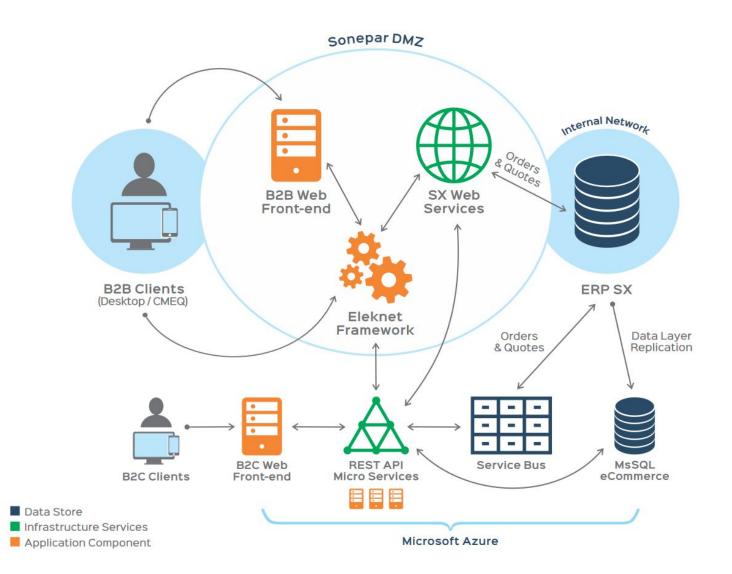


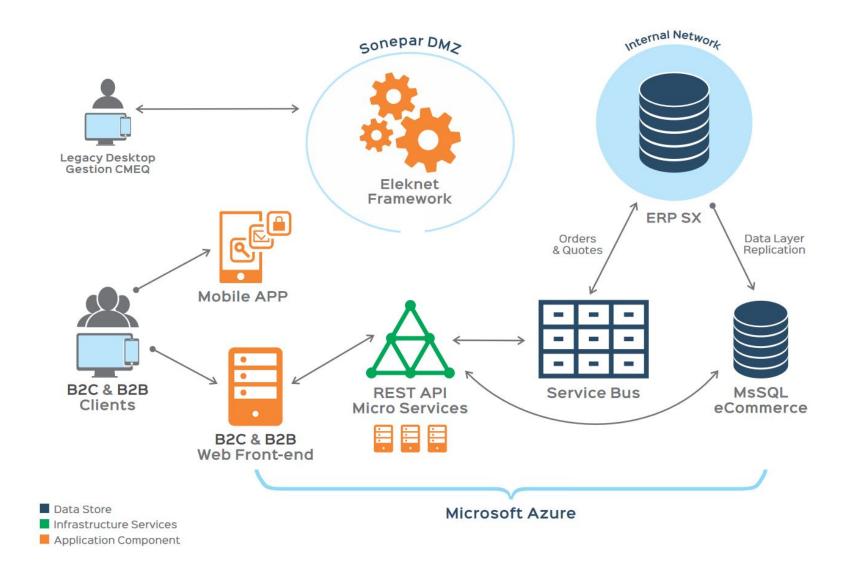


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agile transformation

move to an agile delivery method

(Scrum ; New processes ; New roles)

introduction of azure DevOps (Jira-like) as a tracking tool (requirement, velocity, bugs, etc.)





DevOps transformation

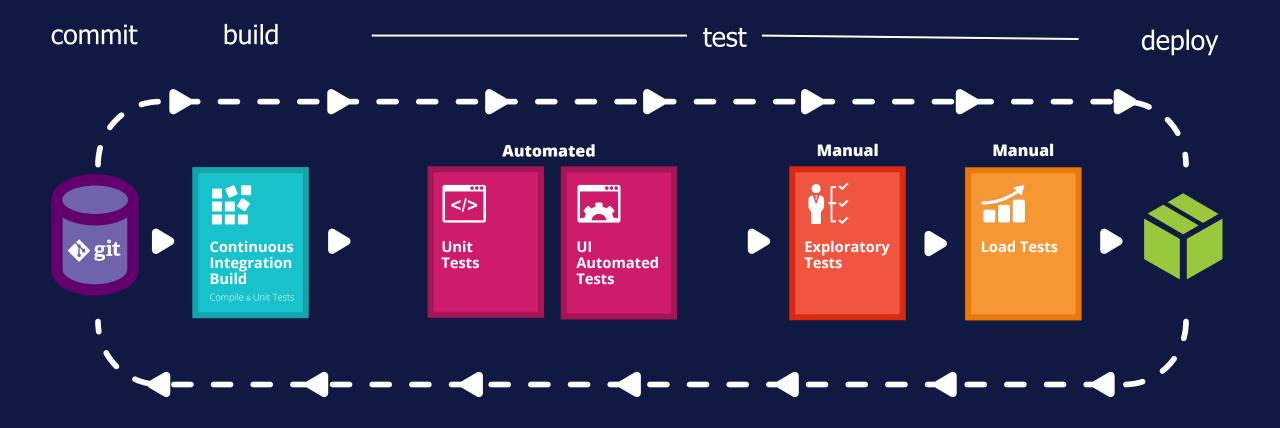
• introduce Git

(branch management; linear history -rebase)

- code review and pull request policies
- unit tests and code coverage
- UI automated tests
- automated build
- automated deployment



continuous integration / continuous delivery



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transformation in numbers

- 1,100 Pull Requests
- 3,000 Commits
- 1,500 Unit Tests
- 6,400 Work Items
- 20M requests per month (microservices)
- average response time of 20~200ms (microservices)
- average web page load time 500ms~2s (5~10s before)
- 10~20 deployment per day
- no downtime





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timeline / resources

- POC
- microservices
- open catalog
- B2B

1 month / 1 person / Sonepar
6 months / 3 people / Randstad
3 months / 3 people / Sonepar
8 months / 8 people / Sonepar

in conclusion

- the development team is now disciplined around up-to-date software engineering best practices (Agile, DevOps, CI/CD)
- updated technology stack
- smooth transformation (without any service interruption)
- no big bang
- improved performance and stability

"blessed who knows to take his time to go faster!" « Inuit Proverb »



questions?





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human forward.



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