



HOW DOES CSC APPLY AGILE PRINCIPLES TO DELIVER NEXT GENERATION IT SERVICES

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2015.04.13







AGILE DEVELOPMENT AS AN OVERALL TERM

Per Foldager CSC Nordic Architecture Service Lead 2015.04.13





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Agile Manifesto

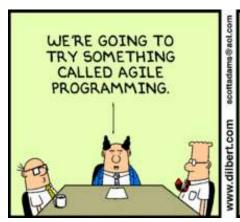
Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

Individuals and interactions over processes and tools
 Working software over comprehensive documentation
 Customer collaboration over contract negotiation
 Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.

AGILE DEVELOPMENT IS A METHODOLOGY









Why do we need agile?

Managing Uncertainty – Origin of Agile

Uncertainty cannot completely be covered at the start, but has to be managed along the way.

Predictive Planning (Plan your Work - Work your Plan). Requires stable requirements up-front.

Following a Plan

Traditional

- Long wait time before going to market
- 35% of requirements change during the project
- 60 % of the functionalities are never used

Agile

Responding to Change

- · Less wait for the delivery
- Team embraces Change.
- Only high value generating features are developed

Adaptive Planning.

Evolutionary Software Design.

Can cope with unstable requirements.

Software Designed for Change.

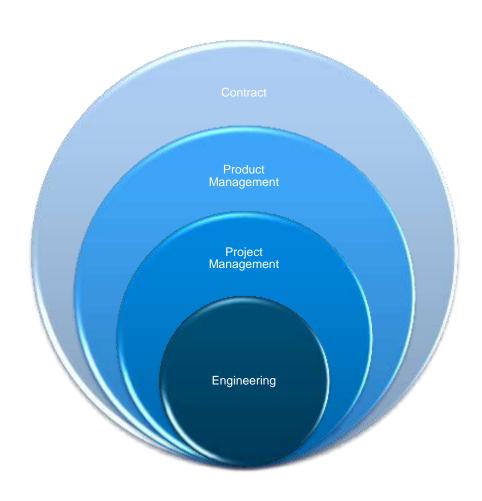
Can be more competitive.

To avoid the blame game



What's it means to be agile?

A Layered Agile Approach



Agile Engineering

- Continual Delivery
- Test Driven Development
 - Acceptance TDD
 - Internal TDD
- Design / Refactoring

Project Management

- Scrum
- Kanban
- Scrumban
- Estimating & Planning

Product Management

- Client-Oriented Product Ownership
- Cadence & Synchronization
- Just-in-Time Requirements
- User Stories, Visualization, Use Cases
- Traditional Product Management

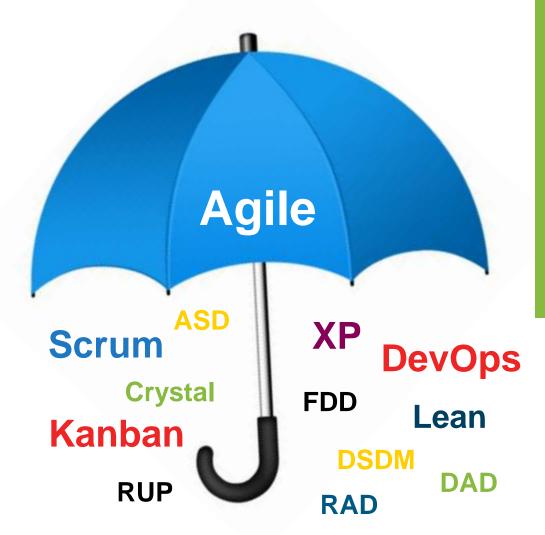
Contract

- Shared Risk
- Foster Collaboration
- Optional Scope

Agile Development Highlights **FREQUENT RELEASES** 2 **AUTOMATION** 3 **COMMUNICATION**



The Agile Umbrella



Many different agile methods, each with a slightly different focus.

Most promote teamwork, collaboration, and process adaptability throughout the project life-cycle.

and few more...
... plus all the hybrids...

CSC has embedded Agile in Catalyst*



Agile Scrum UX

incorporates user experience elements into the Scrum process.

Applications Agile Scrum

• supports CSC's Global Business Services' Applications organization's Agile Scrum process.

Agile Scrum++

 is a hybrid agile process framework built on top of Scrum, with a focus on architecture and visualization.

OpenUP Lifecycle

 process is published as part of the open-source Eclipse Process Framework as an accompaniment to the EPF Practices Library.



Agile Learning as part of CSC Technology Transformation

Our Focus Areas

We offer capabilities, products, and services that we combine to create industry relevant client solutions













Social

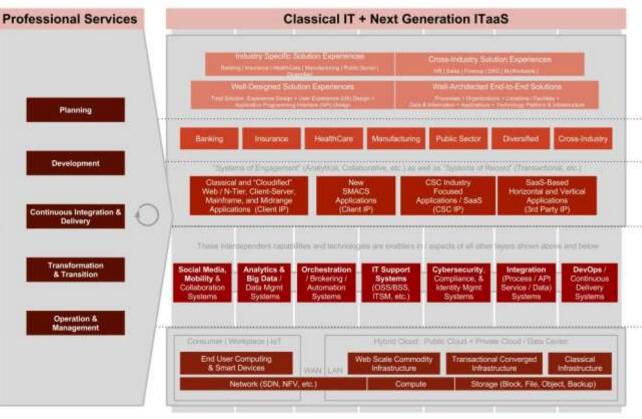
For more insight take a look at January 27 2015 **Technology Transformation Town Hall and** CrowdChat:

https://www.voutube.com/watch?v=wps74rvvG-Q

Next talk will take place April 14'th 2015

https://www.youtube.com/watch?v=0 f6fjD5neA





KEY SKILLS

- Total Solution Experience Design (Industry Specific & Cross-Industry)
- UX/API-Driven Design
- Account Management
- Program & Project Management Architecture & Engineering
- · Consulting, Planning, & Development
- Continuous Integration & Delivery
- T&T and D&M
- Commercials
- Business / Mission Process Design
- Business / Mission Process Consulting
- Business / Mission Process T&T
- Business / Mission Process Operations
- Industry Applications Design & Delivery
- "Cloudification" of Applications
- Social+Mobile+Analytics+Cloud+Security
- SaaS-Based Applications Integration
- Application Consulting, Planning & Dev
- Application Continuous Integration & Delivery
- Application T&T and O&M
- Social, Mobility & Collaboration
- Analytics & Big Data / Data Management
- Orchestration / Brokering / Automation
- IT Support Systems (OSS/BSS, ITSM)
- Security, Compliance, & Identity Mgmt
- BC / DR / HA / Backup
- Integration (Process / API / Service / Data)
- DevOps / Continuous Delivery Systems
- Platform Consulting, Planning, & Dev
- Platform Continuous Integration & Delivery
- Platform T&T and O&M
- End User Computing & Mobile Devices
- Smart Devices (Internet of Things / IoT)
- Network (SDN, NFV, Classical, WAN, LAN)
- Compute (WebScale, TCI, Classical)
- Storage (Block, File, Object, Backup)
- Hybrid Cloud (Public+Private/Data Center)
- Data Center (Network+Compute+Storage
- +WebScale+TCI+Classical+Facilities) Infrastructure Consulting, Planning & Dev
- Infrastructure Continuous Integration & Delivery
- Infrastructure T&T and O&M

App Strategy to enable Agile Learning





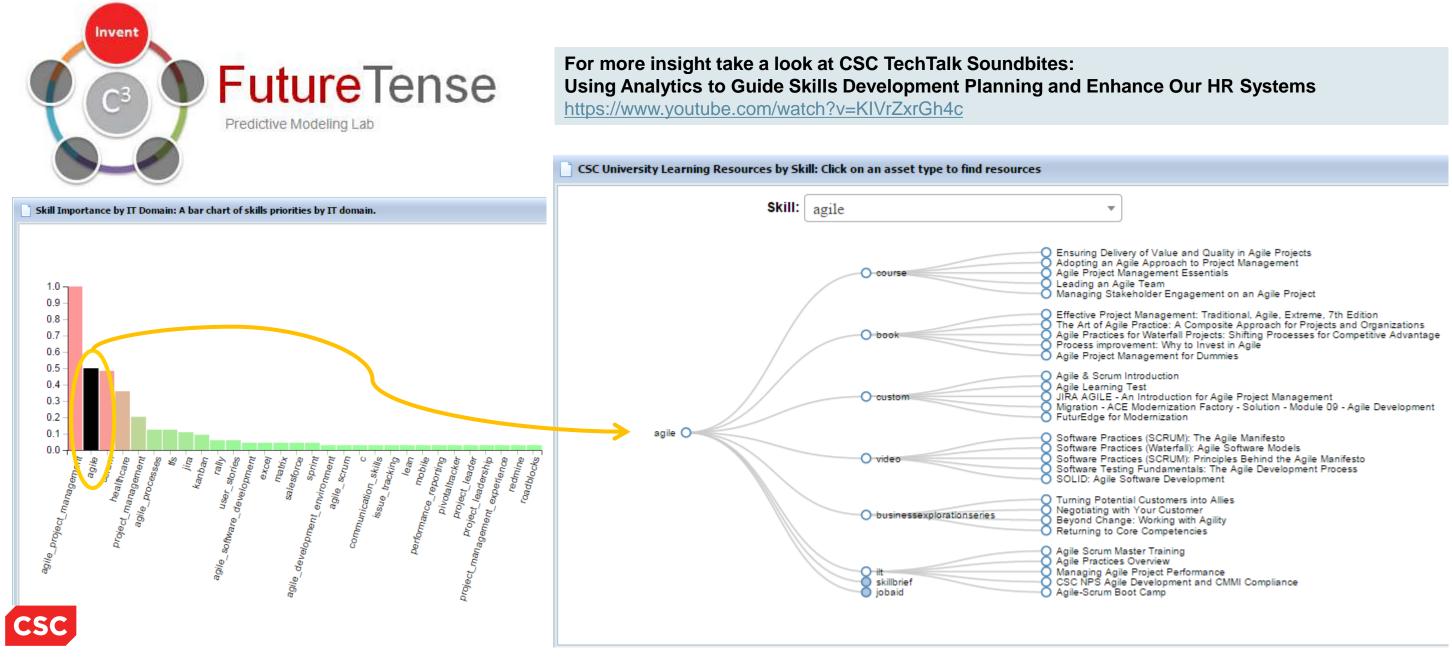




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CSC Utilizes Big Data Analytics to provide Agile Learning

CSC has built its own Big Data Analytics Solution



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Our Messages

• CSC

- Faster Feedback on Ideas
- More effective communication
- Development never stops

Client

- Integrated into the process (elaborate on what the client put forward)
- Decisions are not dangerous
- Demands more

Generel

- Better products
- More happy people

Learning

- People can more easy fit learning into busy schedule
- Just in time learning creates better results due to close links to practicing new skills
- Focused learning through CSC Future Tense (Big Data Analytics) and Individual Development Plans



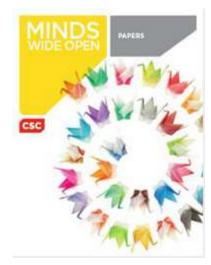






To learn more you can read the CSC Paper The Performance of Agile Methods: Comparison to Traditional Development Methods.

http://www.csc.com/innovation/insights/109353-the_performance_of_agile_methods_comparison_to_traditional_development_methods



Other CSC Papers from 2014 are available here

http://www.csc.com/innovation/flx/108753-2014_csc_papers_winners

Thank You





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DEVOPS, AGILE DEVELOPMENT AND OPERATIONS

Claus Ljunggren CSC Solution Architect 2015.04.13





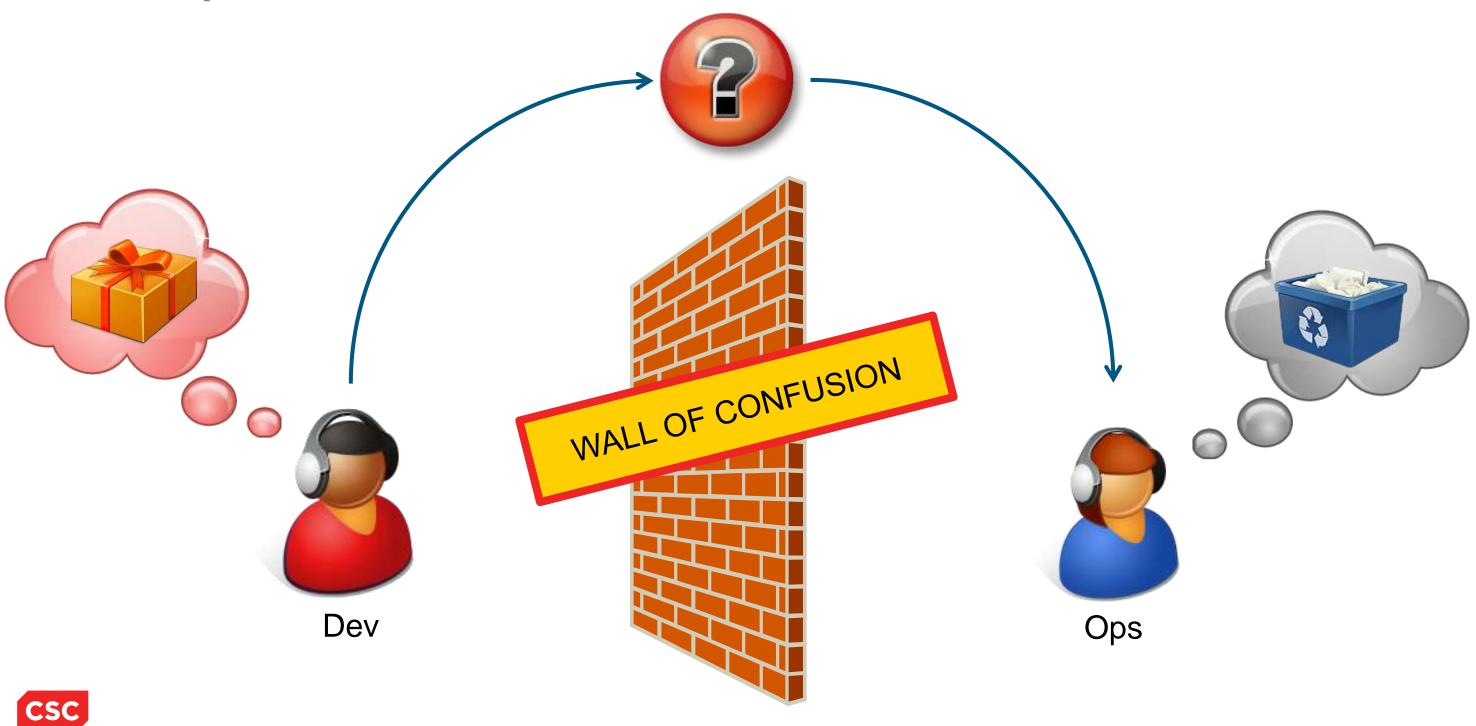
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What is Operations?



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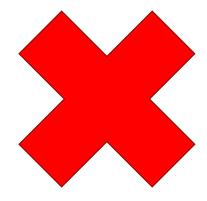


@DEVOPS_BORAT

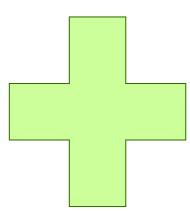
Confuse of Dev or Ops? Simple rule: if you are praise for Web site success, you are Dev; if you are blame when Web site down, you are Ops.

What is DevOps?

BuzzWord



DevOps is NOT a tool!
DevOps is NOT a role!
DevOps is not Dev and Ops!



Portmanteau of "Development" + "Operations" Culturel And Professional Movement *Dev*Ops*

What is DevOps?



Culture

No traditional development/operations silos, promotes communication between everyone involved in delivering applications, and emphasizes constant process and product improvement.



Automation

Automation is key. Treating infrastructure as code (using tools like Chef, Windows PowerShell® DSC, StatsD/Graphite, logstash, and Github) helps make operations a seamless fabric.



Measurement

Continuously monitoring applications and environments iteratively improves code and processes. Constant improvement is central to DevOps, and you can't improve what you can't measure.

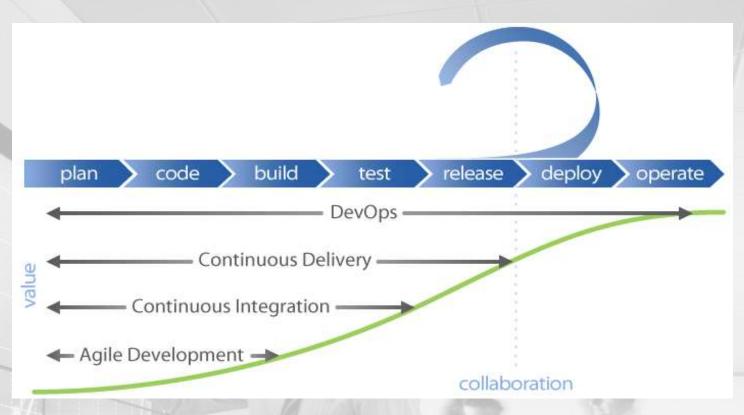


Sharing

Combining siloed teams helps eliminate the pursuit of different, —and often conflicting—goals and metrics. Sharing ideas and improvements, creates a vital feedback loop for the entire app delivery process.

Application of DevOps Principles

Increased collaboration across competence areas, e.g. Business, Development, Integration, Test and Operations. Increased automation, less errors, more time for valueadding activities. Increased frequence in deployment of software services. Increased quality of the deployed solutions and faster releases of new versions.





Automation

Reasons for Automation

- Speed
- Reliability
- Security

What to automate

- Everything ☺
- Infrastructure
- Build + Deploy
- Test
- Documentation



Automation - Infrastructure

The servers in today's data center are like puppies – they've got names and when they get sick, everything grinds to a halt while you nurse them back to health. Servers must be managed like cattle – you number them, and when they get sick and you have to shoot them in the head, the herd can keep moving.

It takes a family of three to care for a single puppy, but a few cowboys can drive tens of thousands of cows over great distances, all while drinking whiskey.

- Joshua McKenty (Adapted from a quote from Bill Baker, Distinguished Engineer @ Microsoft)



bowzer.csc.com





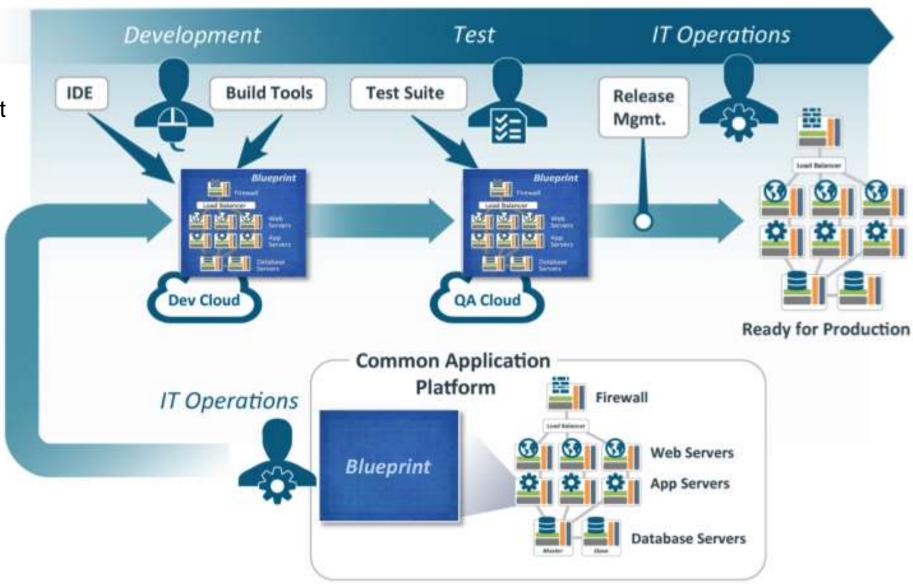
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Automation - Infrastructure



A SINGLE, INTEGRATED PLATFORM FOR HYBRID CLOUD LIFECYCLE MANAGEMENT

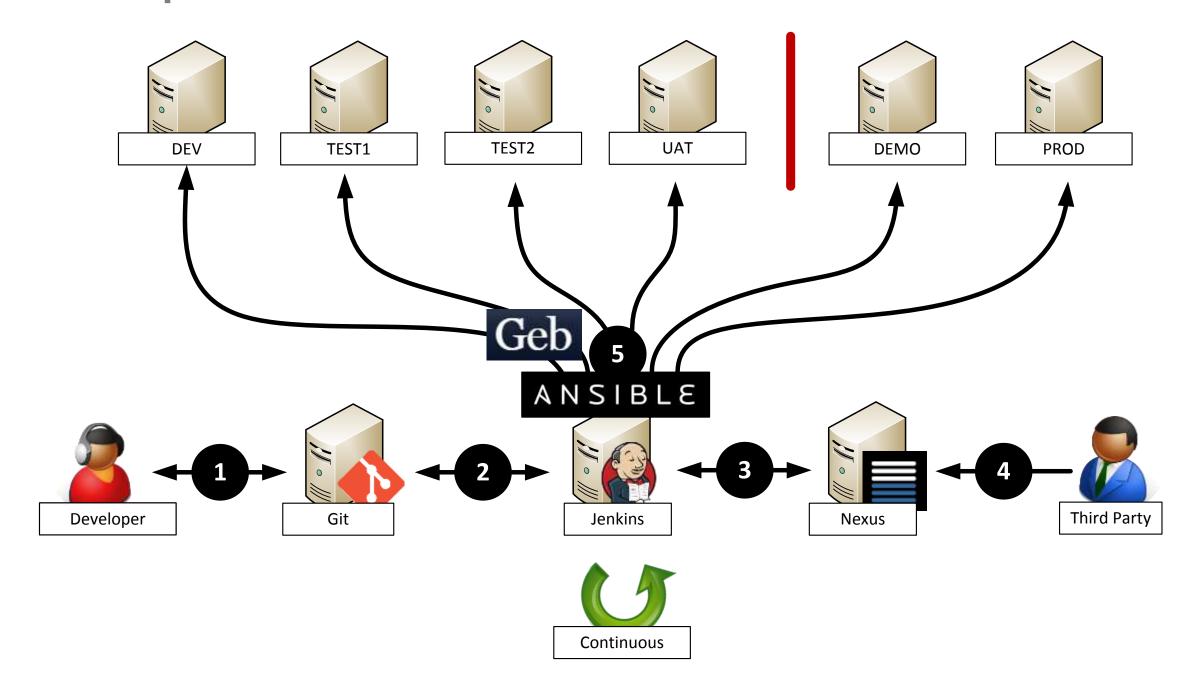
- Application-centric cloud management
- Extensible policy-driven governance
- Application release automation
- End-to-end security model
- Self-service store
- Enterprise scalability





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Practical Examples

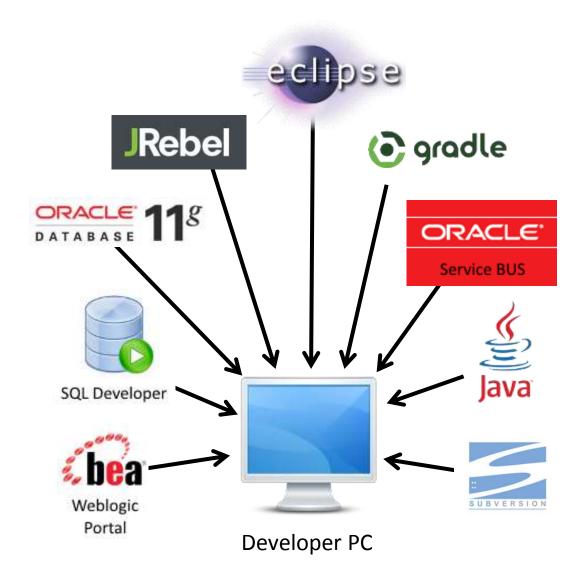


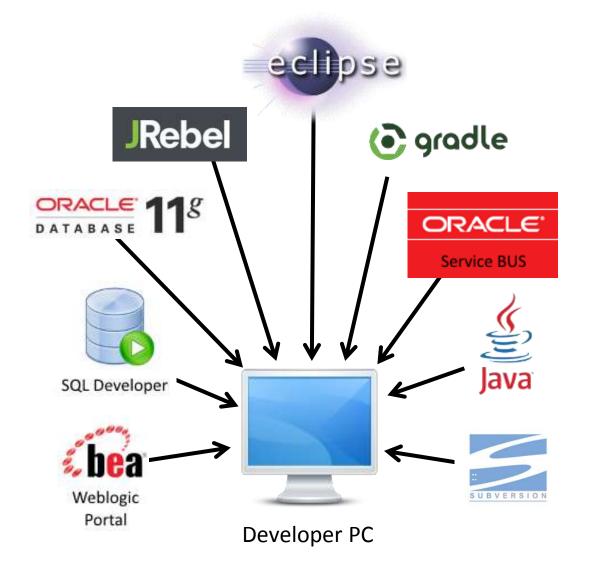


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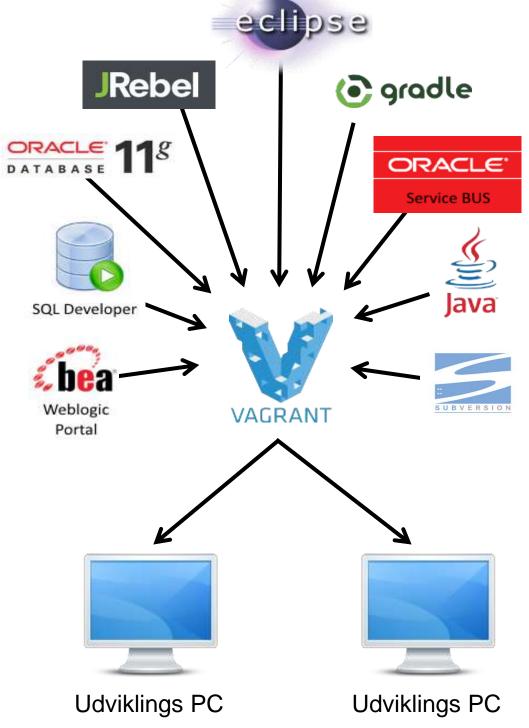
Practical Examples – Public Sector







Practical Examples – Public Sector

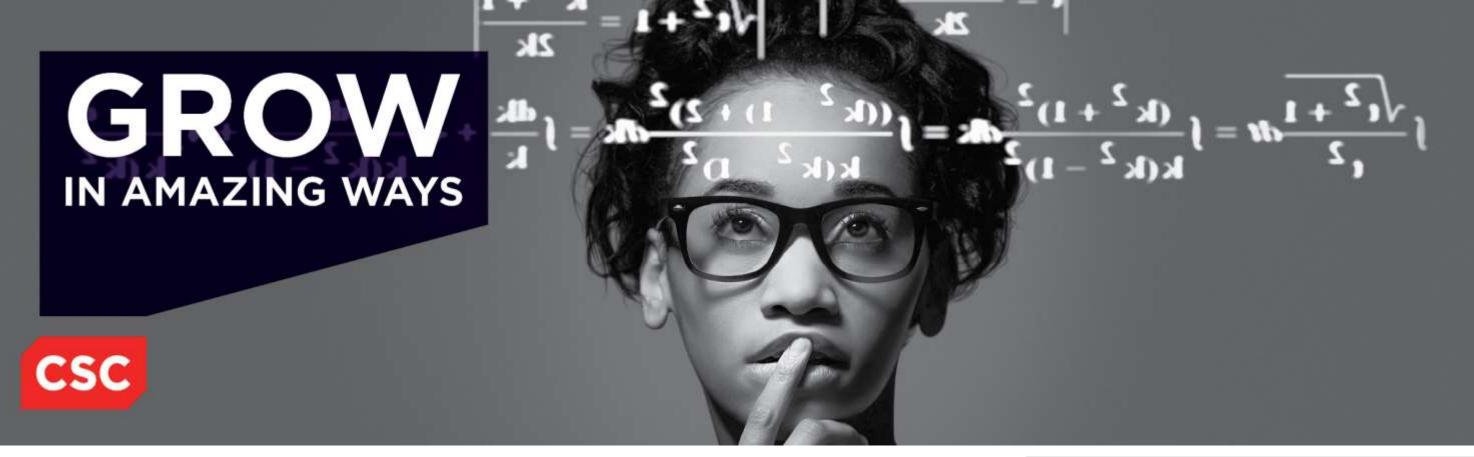




CSC NORDIC GRADUATE PROGRAM

Svitlana Tsiukh Junior Manager 2015.04.03





- 2-year program
- · Mentoring and individual training & development
- A flexible structure with an individual approach
 Allows for adaptations during the program to support training and desire for future career
- · Rotations depending on qualifications and goals you might get the chance to rotate to further strengthen your profile
- Positions offered in 7 different tracks business and technical profiles needed;
 Account Delivery Management | Finance | Sales | Project Management |
 Application Delivery | Application Design & Analysis | Infrastructure Delivery

Who are we looking for?

- You have *recently* have completed college/university or postgraduate studies in business, management, computer science or similar with outstanding grades.
- · You have work experience from your studies.
- · You are fluent in English and preferable one/or more of the Scandinavian languages.





Positions in

- Denmark
- Norway
- Sweden
- Lithuania



CSC's Graduate Program starts 1 September 2015. Read more about the program and find out how to apply on www.csc.com/talent

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