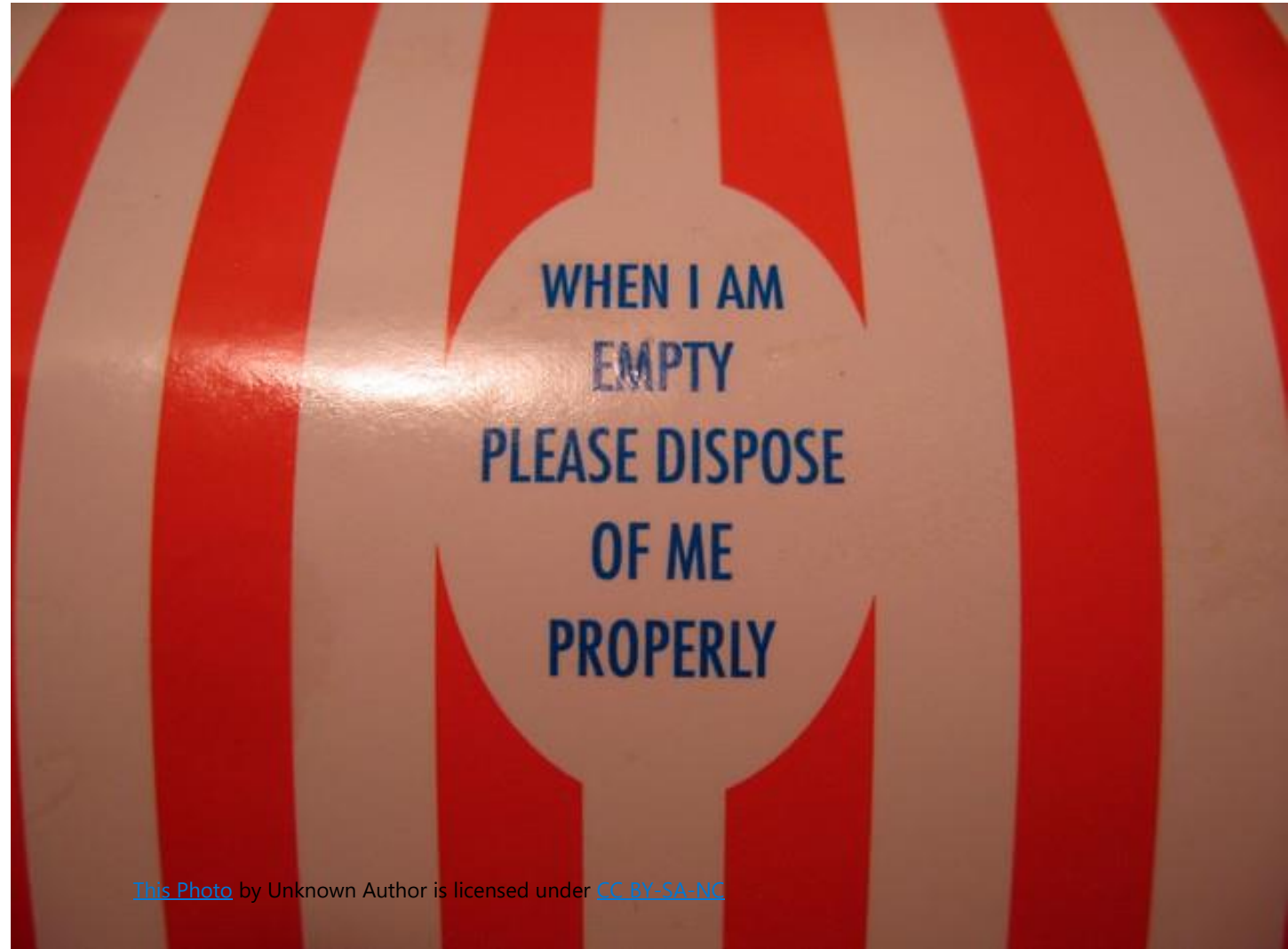


C#
this._course.Dispose();

Rasmus Lystrøm
Associate Professor
ITU



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Agenda

Docs

Automatic package updates

CRUD using Blazor

Using Azure Storage for Files

Integration Testing

App Roles and AAD auth

DevOps

Infrastructure as Code

Continuous Deployment

A note on the exam

Questions and Feedback



**When in doubt; read
the docs!**

Source: <http://keepcalm-o-matic.co.uk/p/keep-calm-and-rtfm-123>



**KEEP
CALM
AND**

RTFM

Keeping your code up to date

ALWAYS upgrade to the *latest* version of your framework.

ALWAYS upgrade to the *latest* version of your dependencies – NuGet, npm, Maven, etc.

Use **Dependabot**.

Automatic Package Upgrades - Demo



Dependabot

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version: 2

updates:

- package-ecosystem: nuget
directory: /
schedule:
interval: daily

Blazor CRUD and Azure Storage

Demo

App Roles and AAD auth

Demo



Unit Testing

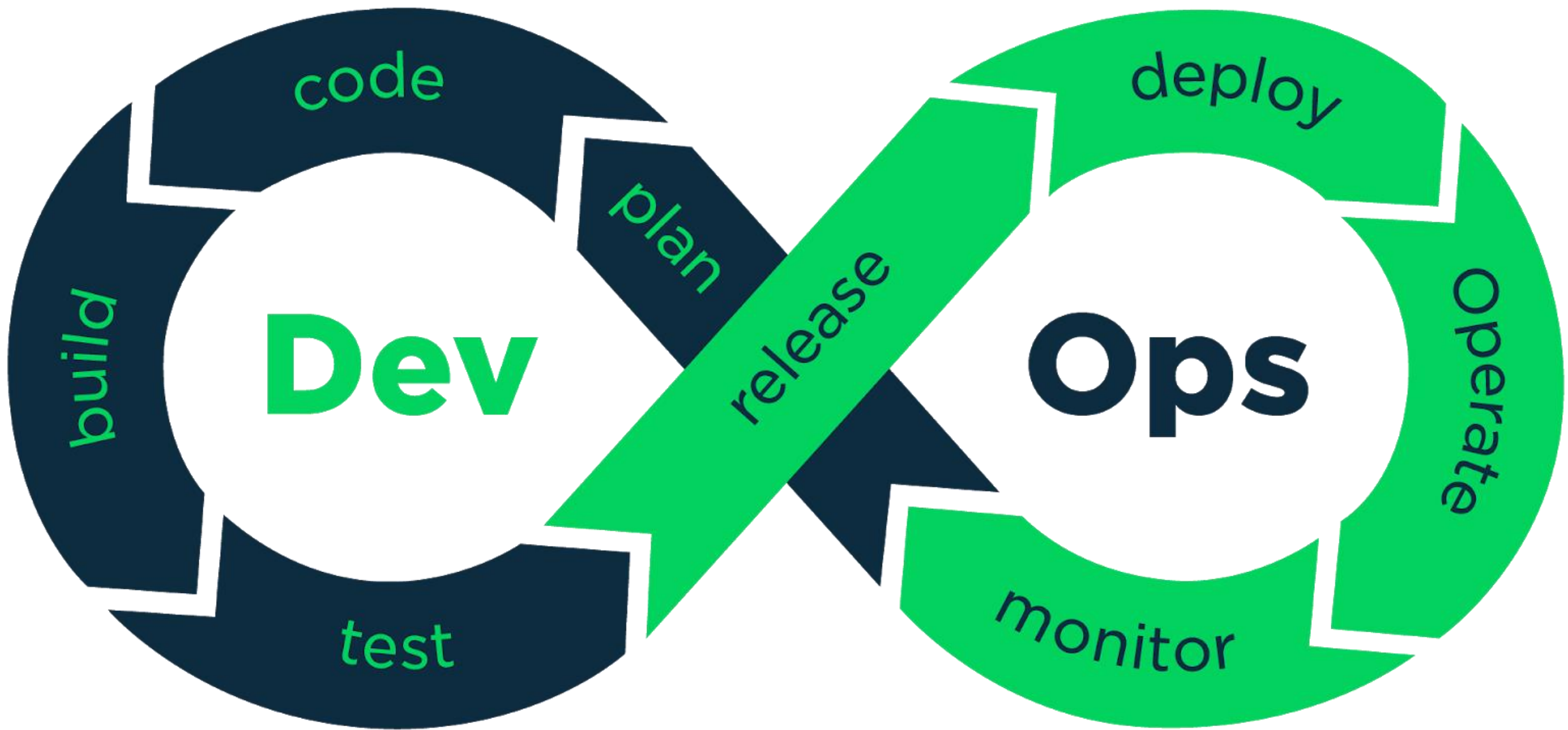
Integration Testing



System Integration Testing

Integration Testing

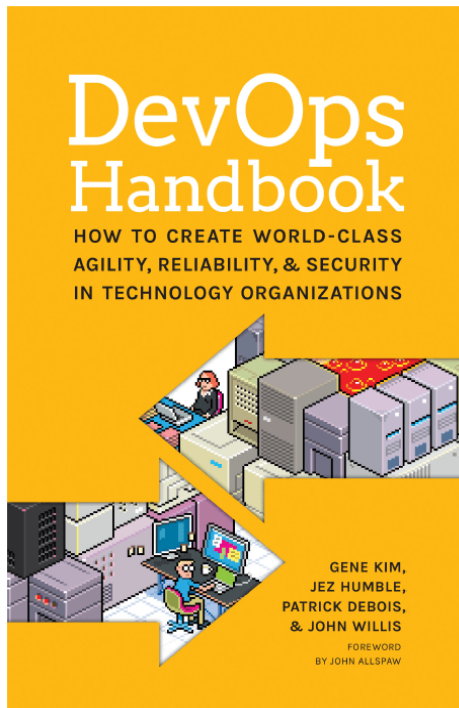
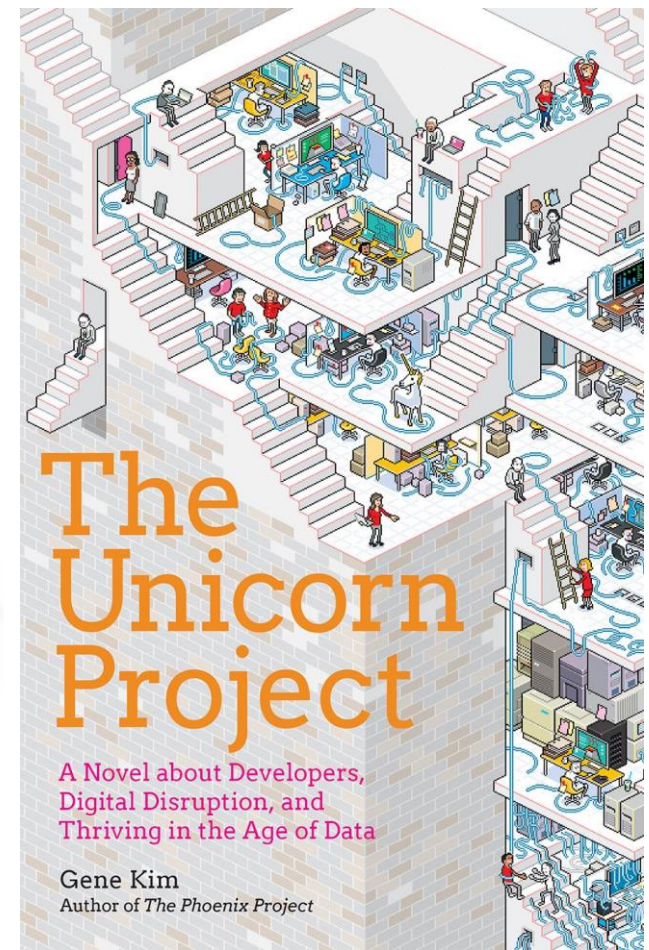
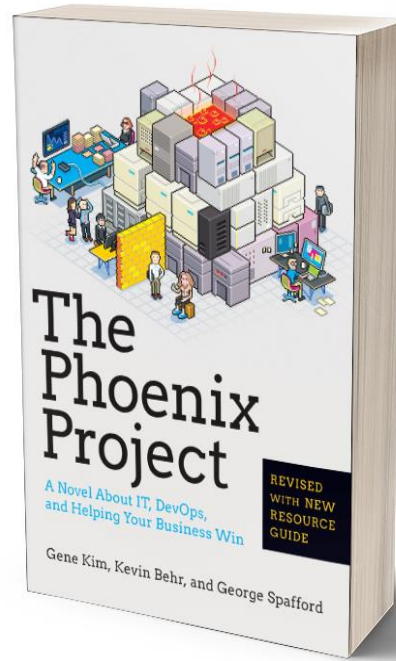
Demo



DevOps

DevOps is a set of practices that automates the processes between software development and IT teams, in order that they can build, test, and release software faster and more reliably. The concept of **DevOps** is founded on building a culture of collaboration between teams that historically functioned in relative siloes.

Books



Continuous Delivery

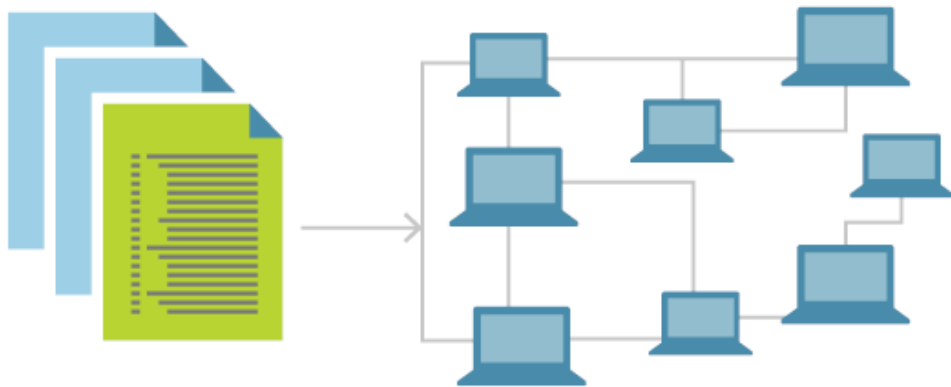
Continuous Delivery

Continuous delivery is an approach where teams release quality products frequently and predictably from source code repository to production in an automated fashion.

Continuous Deployment

Infrastructure as Code

Infrastructure as Code



Infrastructure as Code (IaC) is the management of infrastructure (networks, virtual machines, load balancers, and connection topology) in a descriptive model, using the same versioning as DevOps team uses for source code.

Idempotent

IaC is a key DevOps practice and is used in conjunction with CD

Infrastructure as Code Tools for Microsoft Azure

Azure PowerShell

Azure CLI

Bicep

ARM Templates

Terraform



Continuous Delivery and Deployment Infrastructure as Code

Demo

A note on the exam



Steps

1. Read through the whole thing – cover to cover
2. Read through the whole thing – cover to cover
AGAIN
3. Choose an order:
 - Solve the easiest
 - The most points
 - The ones you know you can do

Questions and Feedback



Thank You!