DCGI

DEPARTMENT OF COMPUTER GRAPHICS AND INTERACTION

practice 1 - Introduction

WA2

Program cvičení

- Organization of practices
- Environment setup
  - Google
  - Microsoft
- Basics

Google + J2EE

Google Cloud

- Google offers lot of services (mail, calendar, documents ...) to individuals and companies (Google Apps).

- The services can be accessed externaly through API.

- If existing services are not satisfactory companies can buy third party solutions (Google App Marketpalce) or create their own (Google AppEngine).

- The existing services can be used through API, extended and interconnected.

Google AppEngine

- Scalable web server with datastore

- Subset of J2EE – servlets, JSPs (no EJBs)

- Schemaless datastore based on BigTable

- Additional libraris for accessing Google APIs

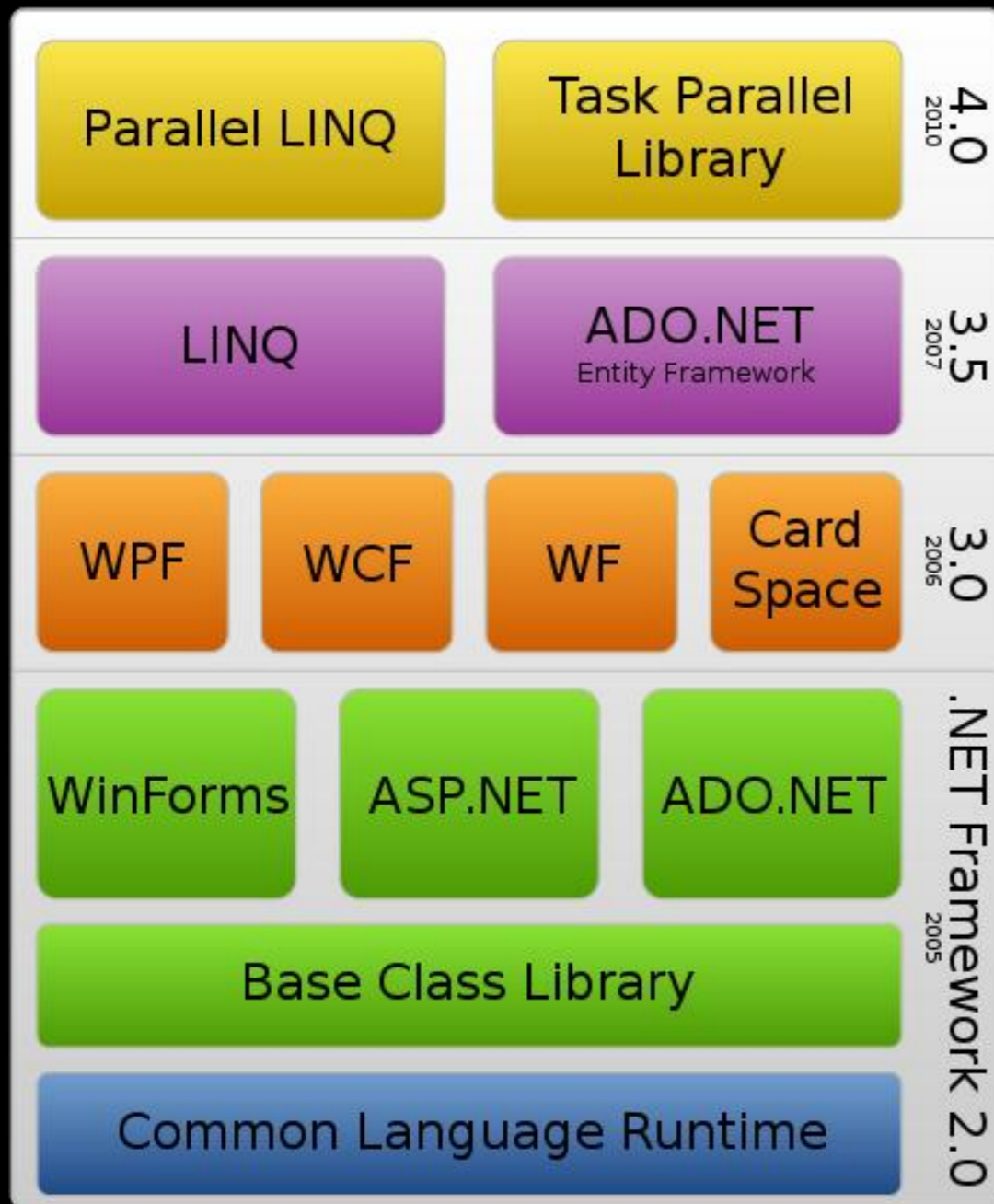# Practices on Google AppEngine

- Environment setup (Eclipse + AppEngine plugin)

- Servlets and JSPs

- REST and Google APIs

- Persistence (working with datastore)

Practices on J2EE

- Servlets and JSPs
- Persistence (JDO)
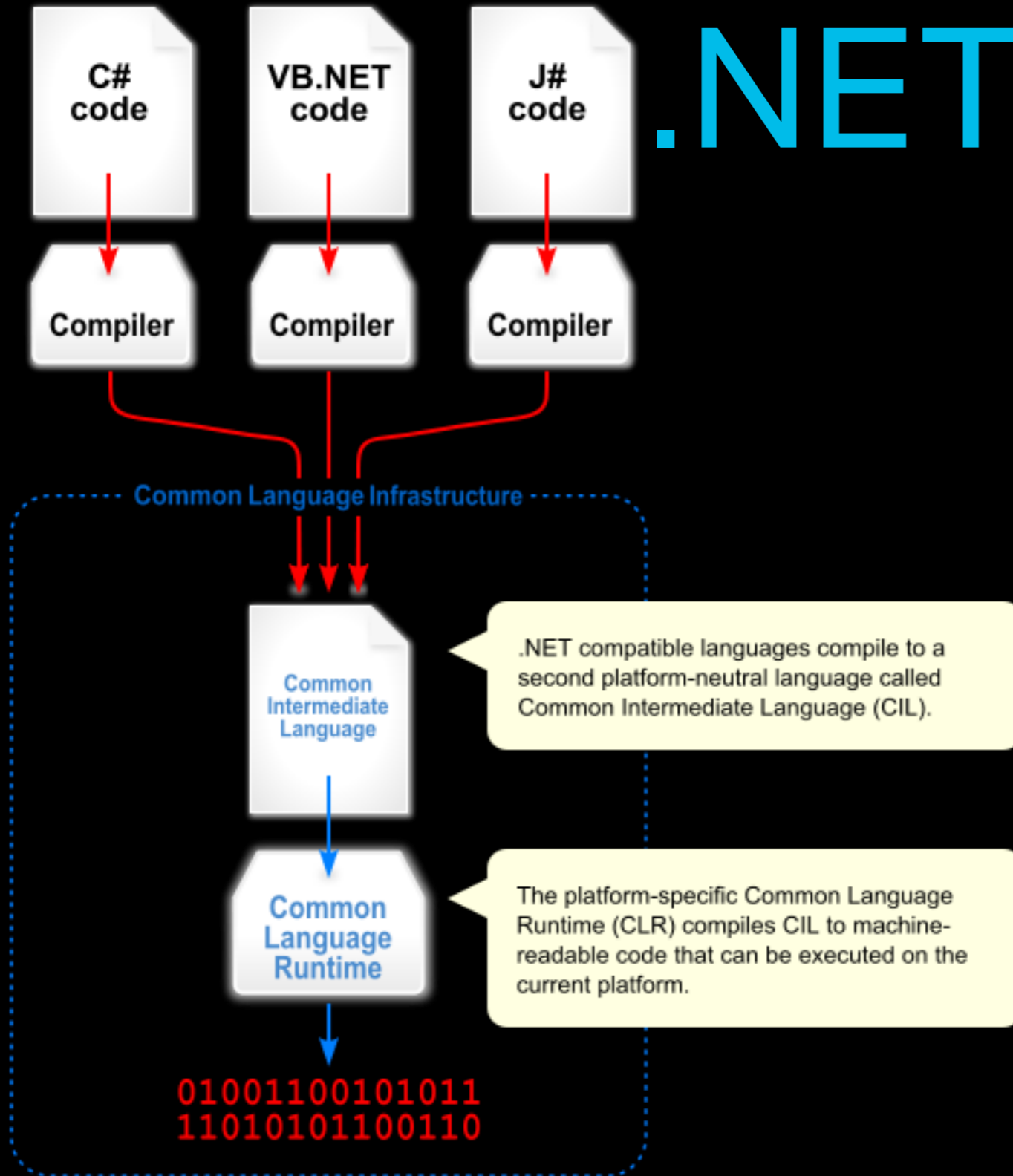- EJBs

Windows Azure + .NET

.NET Framework

credit: wikipedia

- SW framework

- large library

- several programming languages: C#, J#, VB.NET ...

- several platforms: desktop, PDA, Phone 7, Silverlight
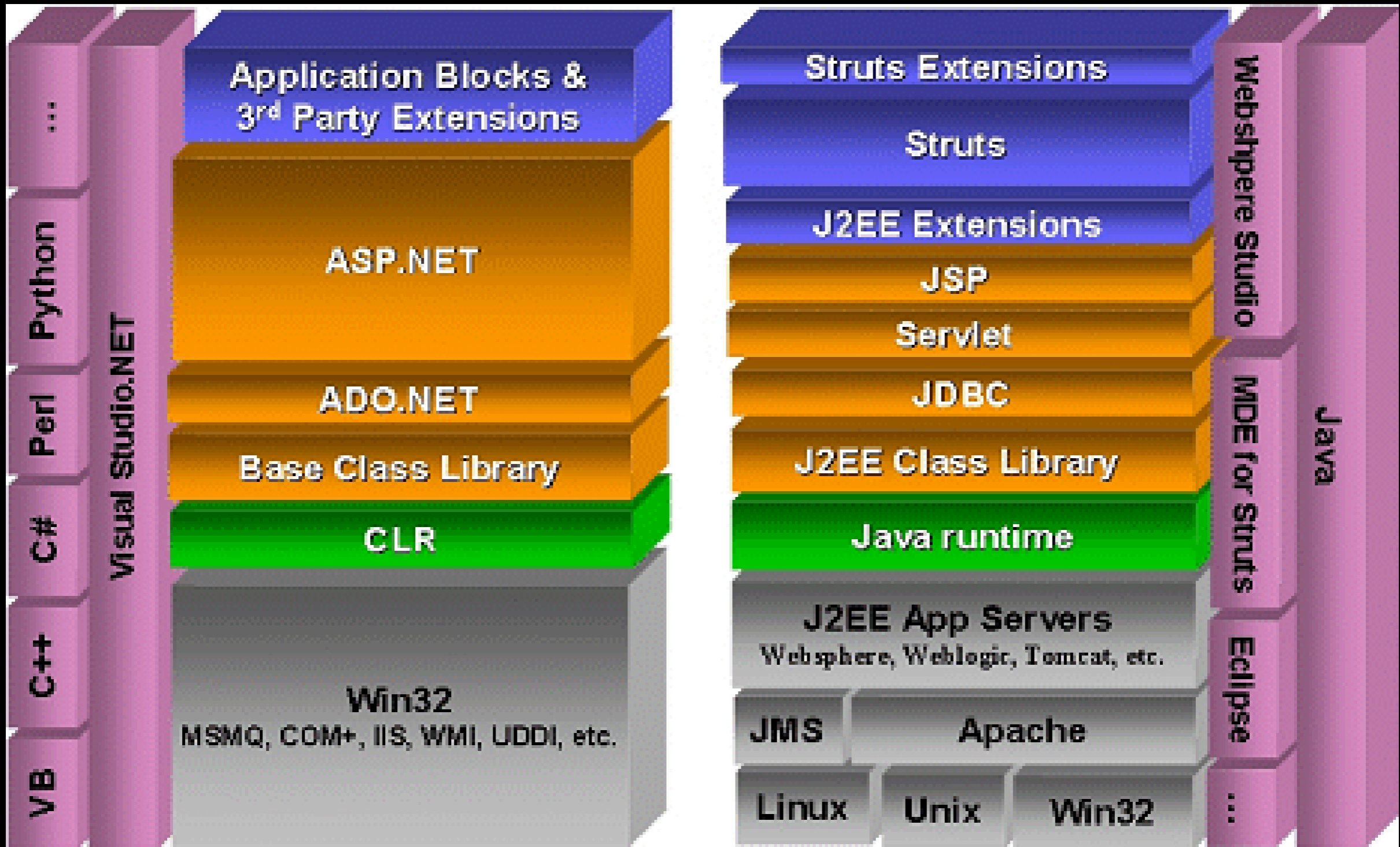
.NET Framework

- Common Language Infrastructure (CLI)
  - Common Intermediate Language (CIL)
  - Common Language Runtime

credit: wikipedia

ASP .NET

- Current MS solution for Dynamic Web

- Based on CLR -> Any .NET Language

- Web pages called Web Forms

- ASP.NET MVC Framework

ASP .NET

credit: Microsoft

Microsoft cloud

Windows Azure Platform

Cloud platform for cloud services hosted in Microsoft datacenters.

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Windows Azure

Operating system for cloud services. Environment for development, hosting and management of services on Microsoft Azure platform. Based on Windows Server 2008

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SQL Azure

Relational database service for cloud environment.

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AppFabric

Middleware that provides several cloud computing services: Access Control Service, AppFabric Applications, Service Bus, Caching, Integration.

Azure dev. Environmet software

- .NET Framework 4.0
- Microsoft Visual Studio 2010
- ASP.NET MVC 2
- Windows Azure Tools For Microsoft Visual Studio 1.4
- IIS 7
- SQL Server Management Studio R2 EE

Cloud deployment and testing

- Freemium na
  http://www.netstudent.cz/Azure.aspx
  - Automatically deletes after 24 hours
- Azure Introductory Special account
  - Free for 3 months

Practices on Azure

- Introduction to .NET

- APIs of MS Live services

- Development of Windows Azure application

- Persistence in Windows Azure