

Session #5

LET'S MAKE A WEB APP



Welcome to Webex



How is it going with the
homework?

Agenda for today

- ▶ Recap on Week #4 and homework
- ▶ A look on Azure
- ▶ Code Demo
- ▶ Dinner + Exercise break
- ▶ Webex again

Master Class #5

After this session (and the accompanying homework) you should know:

- ▶ *What Azure is and the possibilities it provides*
- ▶ *How to publish your web application as an App Service*
- ▶ *Using Azure Storage to maintain storage / Cosmos DB*
- ▶ *What is Cognitive Services about*
- ▶ *What are Azure Functions*

Introduction to Azure

- ▶ Microsoft online services
- ▶ A bit like AWS
- ▶ Heroku meets Netlify meets AWS ++++

Many services

- ▶ App Services / Web Services
- ▶ Storage
- ▶ Databases
- ▶ Docker / Containers
- ▶ Virtual servers
- ▶ Azure Functions
- ▶ Cognitive Services
- ▶ Machine Learning Services
- ▶ Much, much more

azure.microsoft.com

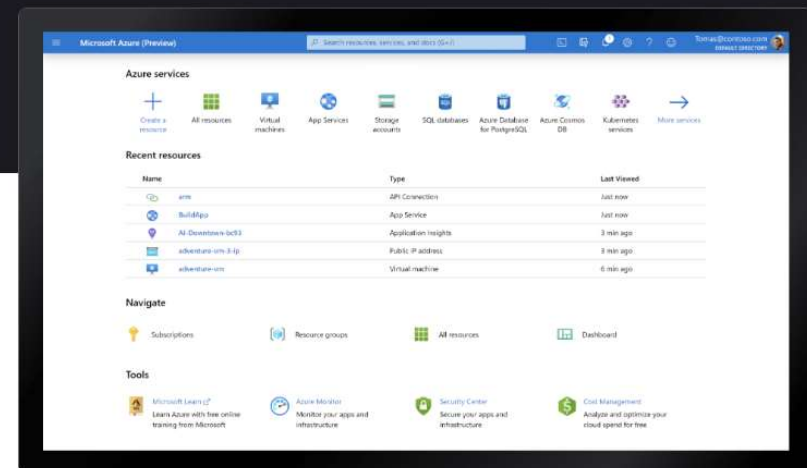
- ▶ Create account
- ▶ Free stuff forever
- ▶ More free stuff for 1 year
- ▶ \$200 credit for paid stuff

Create your Azure free account today

Get started with 12 months of free services

Start free >

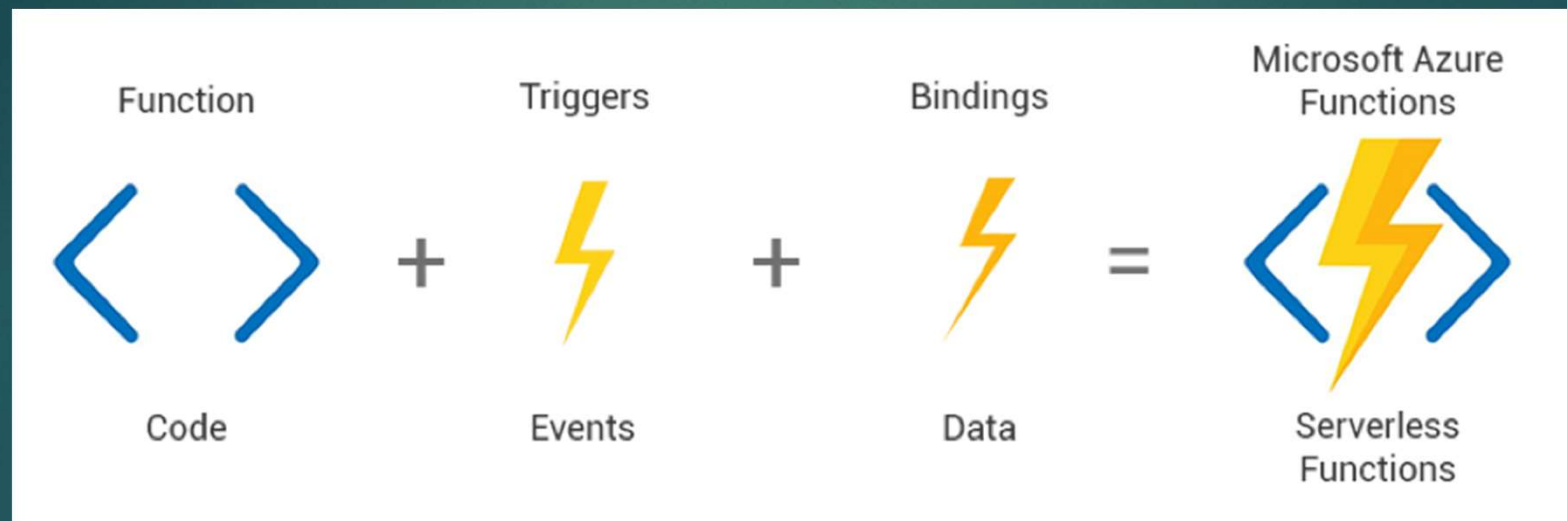
Or buy now >



Azure App Services



Azure Functions



Azure Cognitive Services

Infuse your apps, websites, and bots with human-like intelligence



Vision

- Object, scene, and activity detection
- Face recognition and identification
- Celebrity and landmark recognition
- Emotion recognition
- Text and handwriting recognition (OCR)
- Video metadata, audio, and keyframe extraction and analysis
- Explicit or offensive content moderation
- Custom image recognition



Speech

- Speech transcription (Speech-to-text)
- Speech Synthesis (Text-to-speech)
- Real-time speech translation
- Speaker identification and verification
- Custom Speech models for transcription and translation
- Custom voice



Language

- Language detection
- Text sentiment analysis
- Key phrase extraction
- Entity recognition
- Spell checking
- Explicit or offensive text content moderation, PII detection
- Text translation
- Customizable text translation
- Contextual language understanding



Knowledge

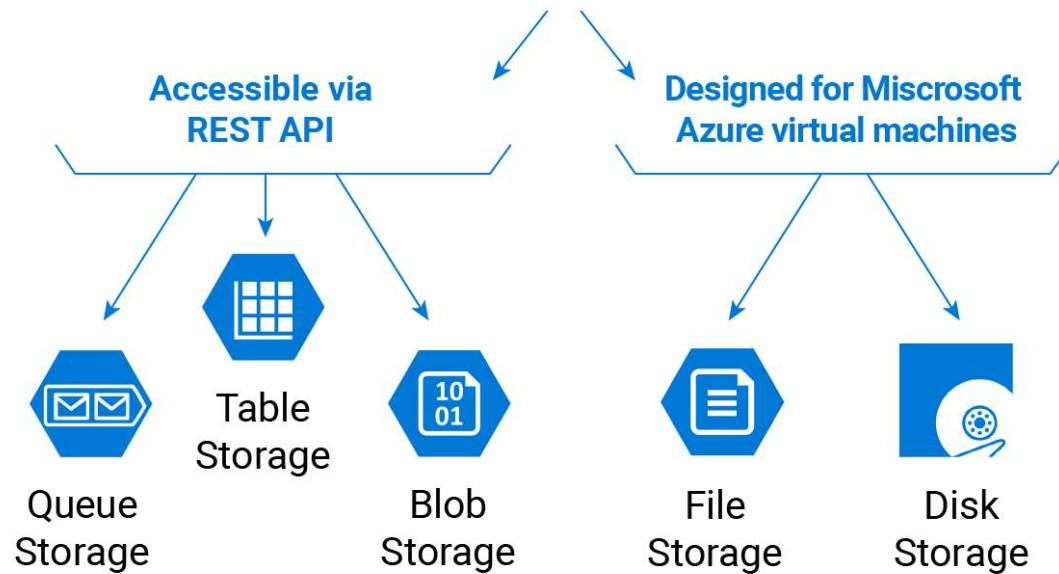
- Q&A extraction from unstructured text
- Knowledge base creation from collections of Q&As
- Semantic matching for knowledge bases
- Customizable content personalization learning



Search

- Ad-free web, news, image, and video search results
- Trends for video, news
- Image identification, classification and knowledge extraction
- Identification of similar images and products
- Named entity recognition and classification
- Knowledge acquisition for named entities
- Search query autosuggest
- Ad-free custom search engine creation

Microsoft Azure Storage



Azure Storage

The background of the slide is a dark teal color with a blurred pattern of green and white characters, resembling computer code or a terminal window. A solid red rectangle is positioned in the upper right area of the background.

Code time

Session 5 – Part 2

Alternative options: Deploy from Github

- ▶ Can be configured in app fairly simple
- ▶ Or you can use Azure Dev Ops to setup a more advanced build & deploy pipeline

Microsoft Azure

Search resources, services, and docs (G+ /)

Home > thirtyone-allan | Deployment Center

thirtyone-allan | Deployment Center

App Service

Search (Ctrl+ /)

Security

Deployment

Quickstart

Deployment slots

Deployment Center

Settings

Configuration

Authentication / Authorization

Application Insights

Identity

Backups

Custom domains

TLS/SSL settings

Networking

Scale up (App Service plan)

Scale out (App Service plan)

WebJobs

Push

MySQL In App

Properties

Locks

Export template

App Service plan

Deployment Center

App Service Deployment Center enables you to choose the location of your code as well as options for build and deployment to the cloud. [Learn more](#)

1

SOURCE CONTROL

2

BUILD PROVIDER

3

CONFIGURE

4

SUMMARY

Continuous Deployment (CI / CD)

Azure Repos

Configure continuous integration with an Azure Repo, part of Azure DevOps Services (formerly known as VSTS).

Not Authorized

GitHub

Configure continuous integration with a GitHub repo.

Not Authorized

Bitbucket

Configure continuous integration with a Bitbucket repo.

Not Authorized

Local Git

Deploy from a local Git repo.

Manual Deployment (push / sync)

OneDrive

Sync content from a OneDrive cloud folder.

Not Authorized

Dropbox

Sync content from a Dropbox cloud folder.

Not Authorized

External

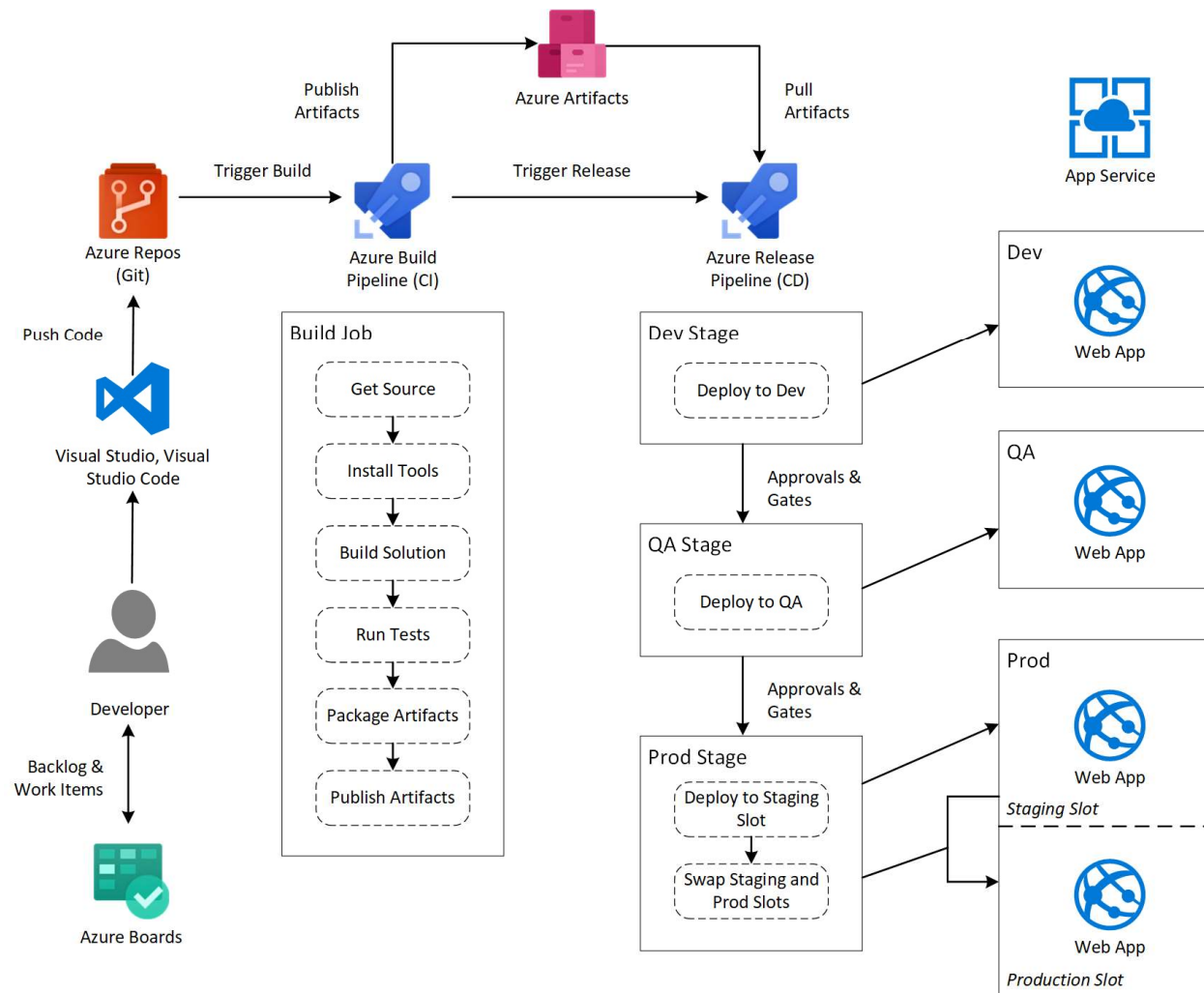
Deploy from a public Git or Mercurial repo. This option requires manually triggering your deployments.

FTP

FTP

Use an FTP connection to access and copy app files.

Authorize





Student assignments

SHOW NOW OR SHARE
LATER

Future development ideas

Game clean-up

Error handling

Better computer AI

Multiplayer mode

Bot (Slack?) mode

Slack enabled (to start multiplayer games)

"Kahoot" mode

React based UI

Responsive UI

Topscore list

Xamarin
Android based
game

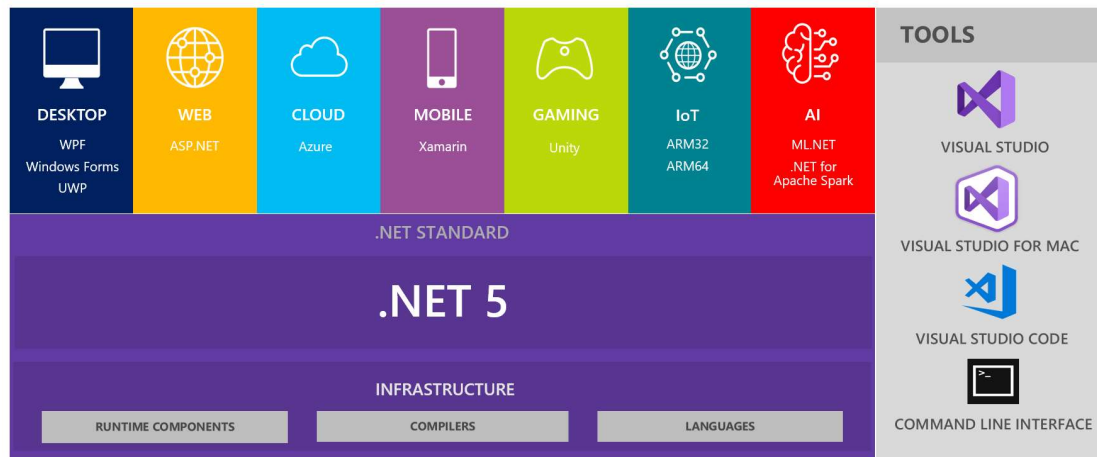
[your idea goes
here]

Hackathon

When the world returns to 'normal' let's meet and have a final hackathon where we bring the ideas to life – and build an awesome game for the portfolios.



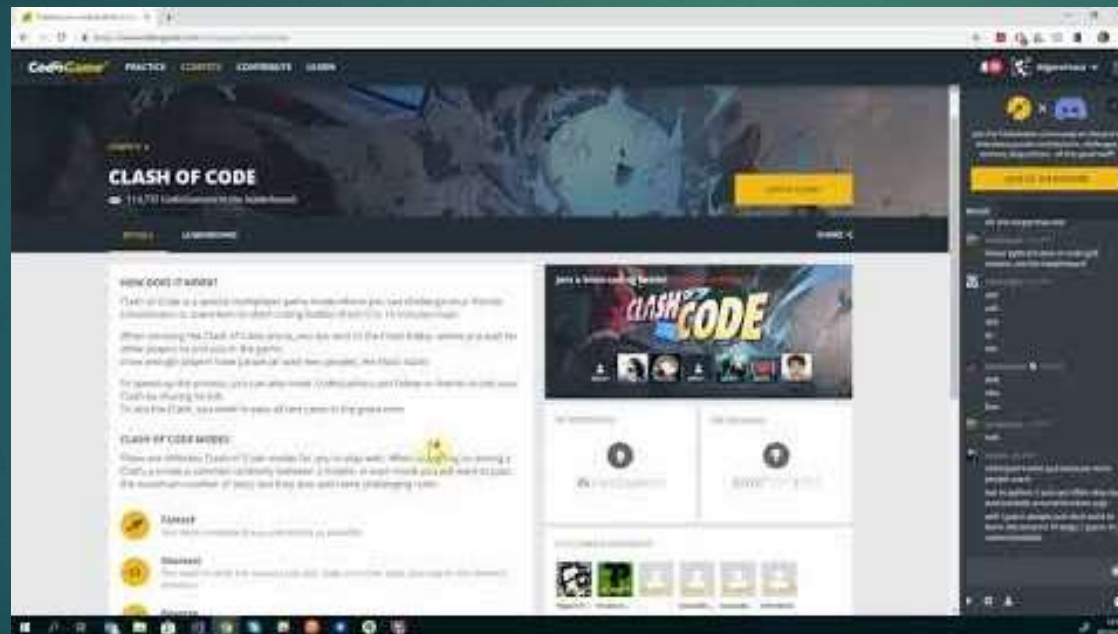
.NET – A unified platform



.NET
Future

Practice

- ▶ Play CodingGame.com for practice!



Or build your own projects

- ▶ Use #dotnet channel to ask for help!
- ▶ Maybe implement your favorite card game?



Evaluation

- ▶ Evaluation link will (probably) be mailed out



Course certificates

- ▶ Soon ready – you will receive them digitally

Thanks

- ▶ Thanks to Sherry and MICROSOFT for hosting
- ▶ Thanks to Mentors for helping
- ▶ Thanks to students for attending

