LIVE
STREAMING

Free Live Webinar

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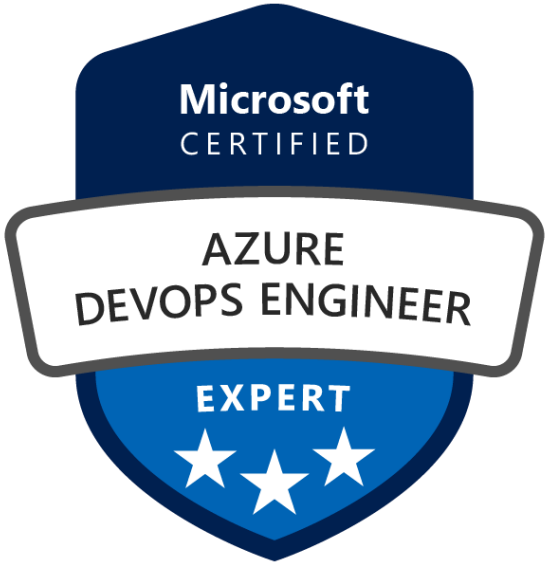

AZ-400 Exam Tips and Tricks With Final Revision Live Webinar

Sunday May 31, 2020
16:00 to 17:00 BST

Mohamed Radwan

Principal DevOps Consultant
mohamedradwan.com

DevOps Visions
PLAN CODE BUILD TEST PACKAGE DEPLOY CONFIGURE MONITOR
devopsvisions.com

MVP
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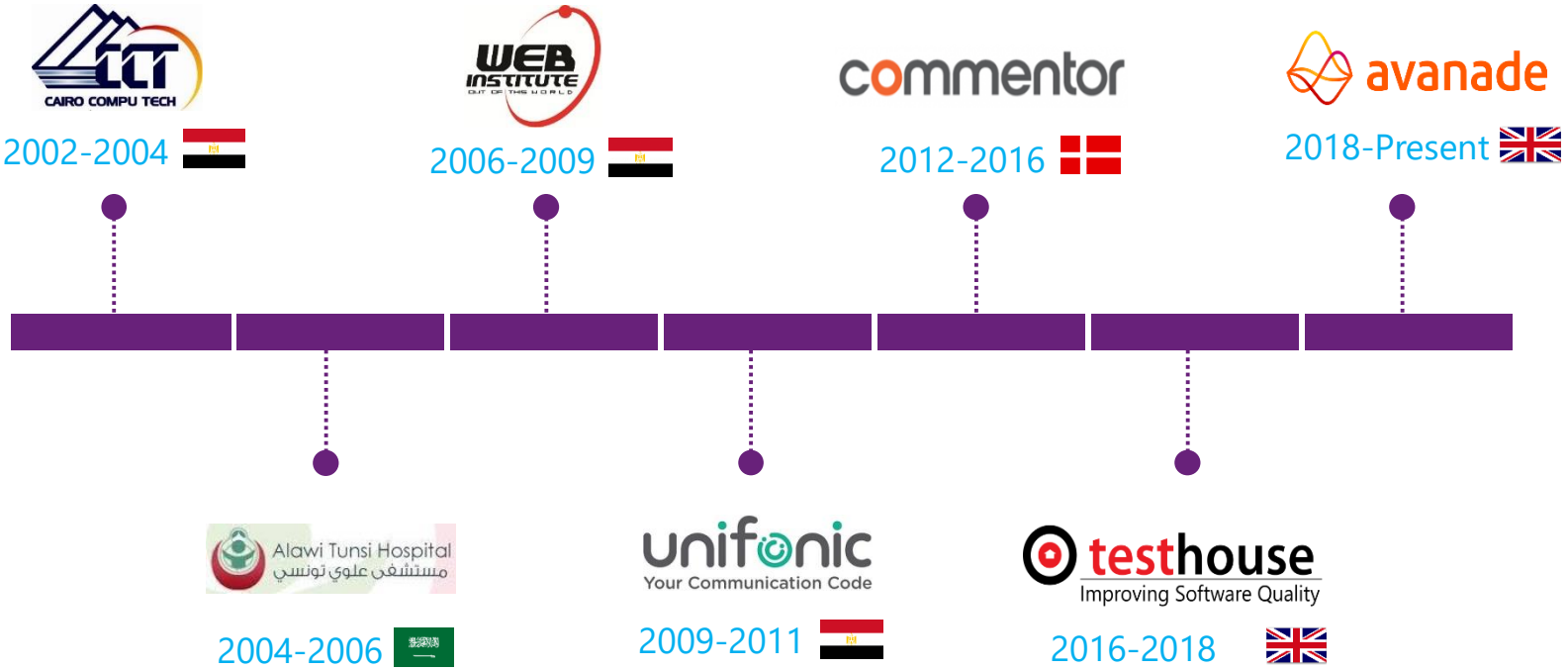
Professional
Mohamed Radwan
Principal DevOps
Principal Cloud DevOps Consultant
With 17+ Years of Experience, Helped 50+ companies around the globe
Blog: mohamedradwan.com
Twitter: @mradwan06

Work History & Locations

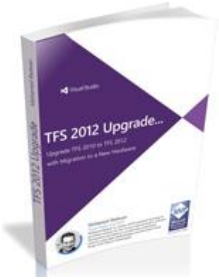


Guides, Open Source & Extensions

Migrate to VSTS

Agile Testing

DevOps Principles



Migrate TFS 2012

Upgrade TFS 2013

Upgrade TFS 2010

Integration Testing Framework

TFS Counter

Videos and Posts

YouTube

300+
VIDEOS

22.000+
VIEWS/MONTH

1.200.000+
VIEWS

5.000+
SUBSCRIBERS

10.000+
LIKS

WordPress

400+
BLOG POSTS

18.000+
VISIT/MONTH

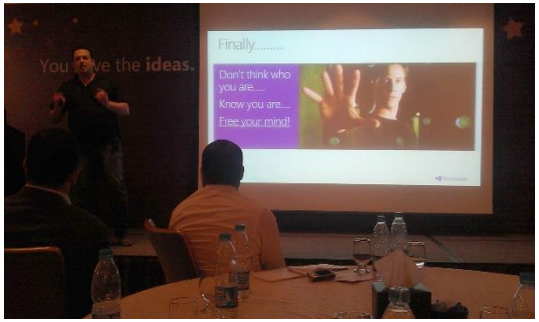
800.000+
TOTAL VIEWS

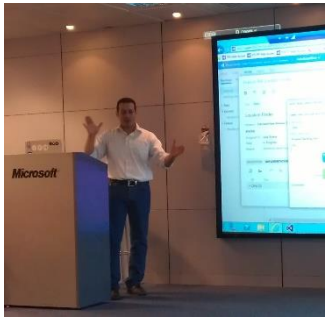
14.000+
UNIQUE VISITS/MONTH

300+
REGISTE R USERS

Events, Sessions & Workshops

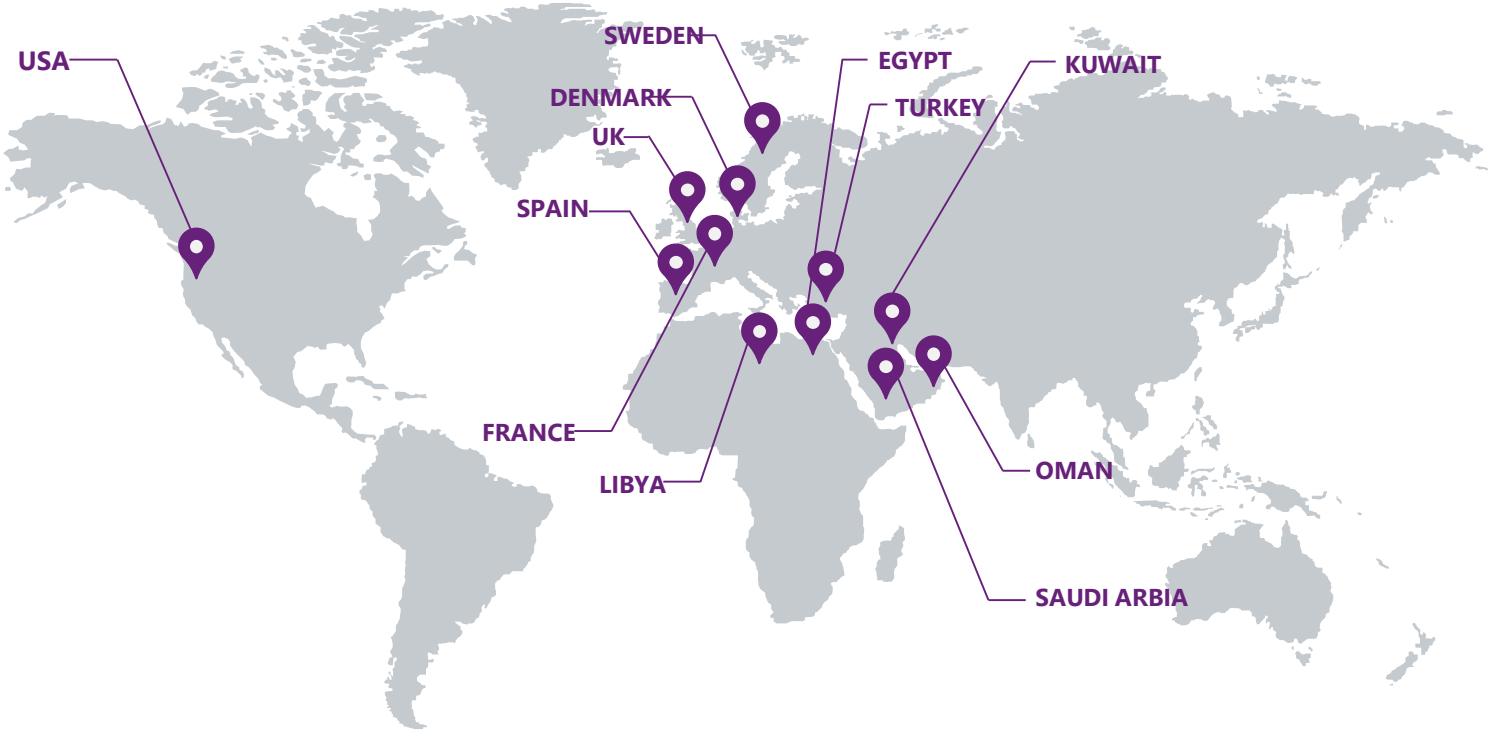
100+ Sessions
5000+ Attendees





Global Experience

12+ Countries



Projects | Session/Events | Workshops | Training

Agenda

Agenda

- Exam topics, areas and new updates
- Examples of exam points, how to prepare and cover them for the exam
- Azure DevOps CLI
- Migrating source code
- Git
- Git Branch and Merge Strategy
- Security/Whitesource
- Azure Pipelines Project agent pool vs. organization agent pool
- Azure Pipeline Agent (Service VS. Interactive)
- Tips, tricks and advices

Exam Topics and Areas

Current

1. Design a DevOps strategy (20-25%)
2. Implement DevOps development processes (20-25%)
3. Implement continuous integration (10-15%)
4. Implement continuous delivery (10-15%)
5. Implement dependency management (5-10%)
6. Implement application infrastructure (15-20%)
7. Implement continuous feedback (10-15%)

New (after June 15,2020)

1. Develop an Instrumentation Strategy (5-10%)
2. Develop a Site Reliability Engineering (SRE) strategy (5-10%)
3. Develop a security and compliance plan (10-15%)
4. Manage source control (10-15%)
5. Facilitate communication and collaboration (10-15%)
6. Define and implement continuous integration (20-25%)
7. Define and implement a continuous delivery and release management strategy (10-15%)

Exam Topics and Areas

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6. Implement application infrastructure (15-20%)
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7. Define and implement a continuous delivery and release management strategy (10-15%)

(60 : 70)%

Examples of exam points and how to prepare for them

Azure DevOps CLI

- Working with az devops CLI it enables automate everything as you can script anything and hook it in a build pipeline.
- az devops project create
- Az boards work-items create
- az devops work item show –id 2222
- az devops Configure
- az devops Configure -defaults

Migrating source code

- TFVC to Git
- Git to Git

Git

- Commit
- Branch
- HEAD
- Merge Non Fast-Forward (Non FF)
- Rebase or Fast-Forward Merge (FF)
- Squash
- Clone
- Remote
- Etc

Git Branch and Merge Strategy

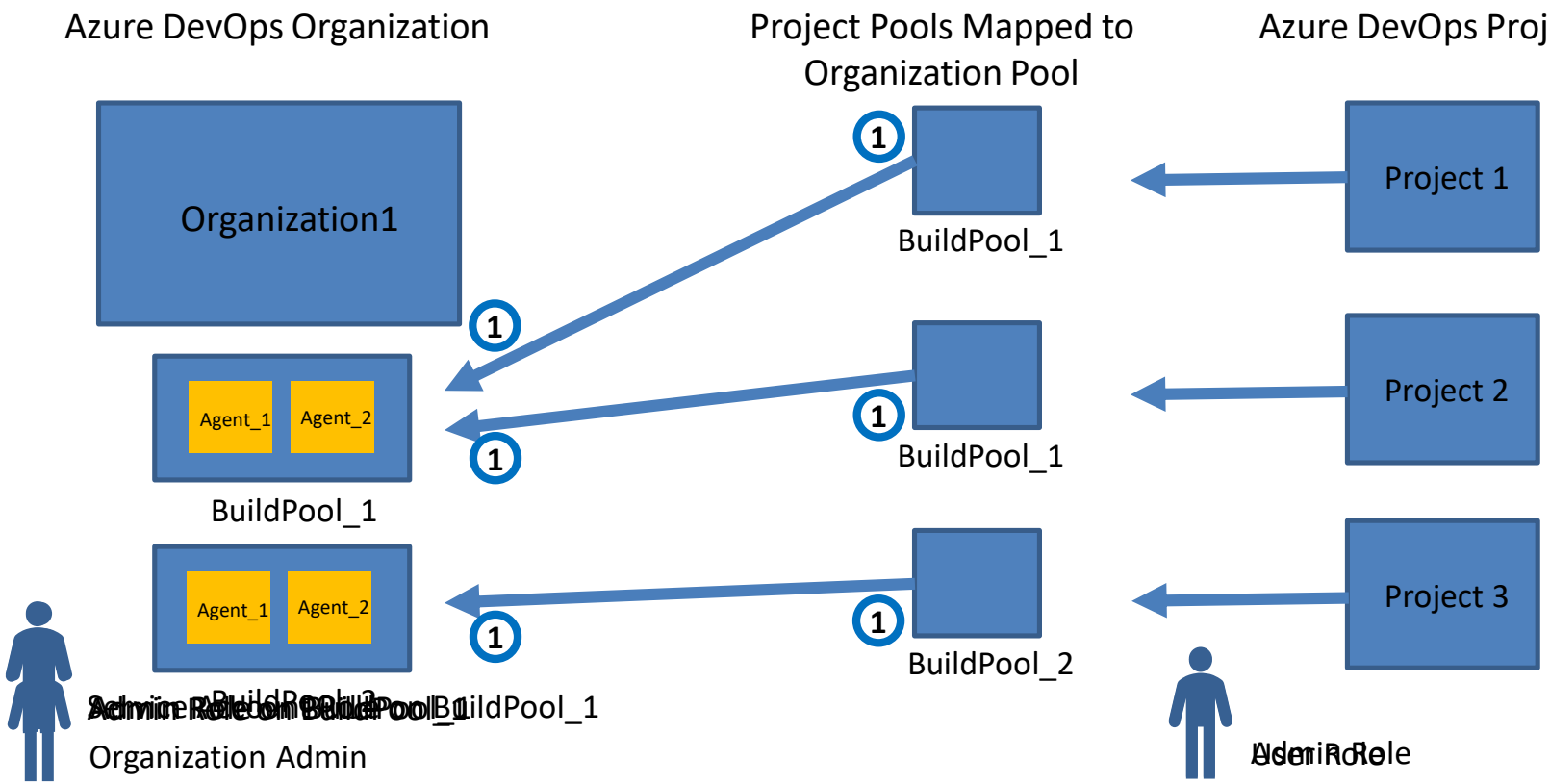
- Gitflow
- Release flow

Security

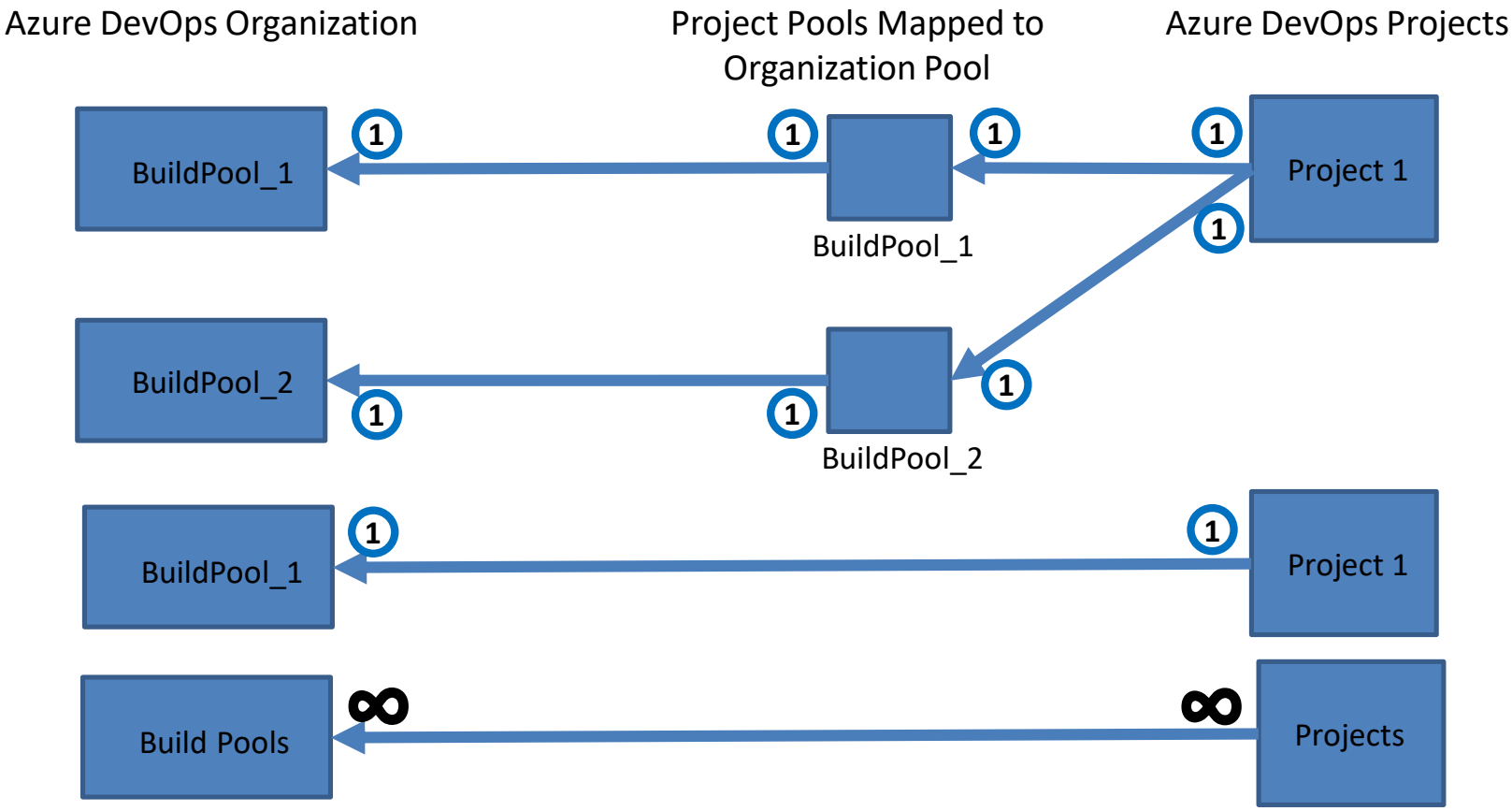
- Whitesource for Open source library vulnerabilities and license

Azure Pipelines Project agent pool vs. organization agent pool

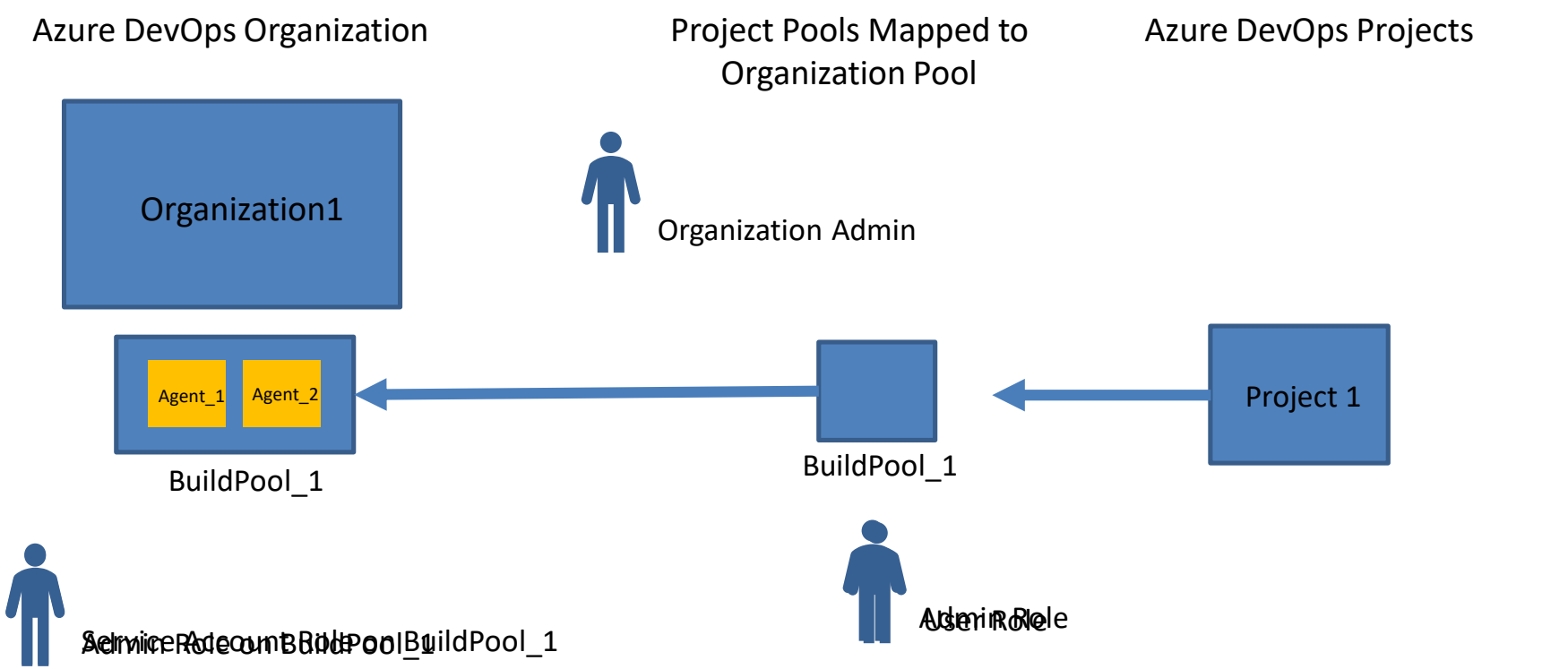
Organization Agent Pool VS. Project Agent Pool



Relation Between Project, Project Agent Pool & Organization Agent Pool



Delegating Organization Pool Admin to Project Admin



Roles and Permissions (Organization Agent Pool VS. Project Agent Pool)

Organization Pool

Admin Role

Service Account Role

Create Project Pool That Maps to This Organization Pool

Install/Remove Agent

Project Pool

Admin Role

User Role

Use Agent Pool for Build

Manage Membership (Add/Remove) Users

Azure Pipeline Agent (Service VS. Interactive)

Service

- It used for build that doesn’t require run UI automation (interactive)
- Runs and appears in Windows Services Management
- The Service login using independent account from the user account login to the machine
- The service automatically starts with the machine
- The service has a recovery mode if it is crashed

Interactive

- The process used for build that required run UI automation (interactive)
- It can also run none interactive build
- Doesn’t runs nor appear in Windows Services Management
- It appears in the task management as a process
- The process login using the same account login to the machine
- The process needs to be started manually

Recommended Videos

Lead Time VS Cycle Time and How Kanban/Lean Can...

Docker For Beginners Step by Step Tutorial

Run Unit Testing in Docker Container | CI/CD Pipelines ...

Deploy Docker image to Kubernetes Cluster | CI-CD...

Deeply Understanding of Azure Pipelines Agent | Lea...

Multi-Stage CI/CD Pipelines as Code with YAML For Azu...

Mastering Git From Beginner to Advanced Step by Step...

Securing Your Application, Infrastructure, Environment...

Upcoming Session Alert

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DevOps Visions

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GitHub

LIVE STREAMING

DevOps Open Source EasyApp and Q&A

June 6, 2020 16:00 BST

Mohamed Radwan
Principal DevOps Consultant
Blog: mohamedradwan.com

Group (B)

What is DevOps Visions?

DevOps Visions

PLAN CODE BUILD TEST PACKAGE DEPLOY CONFIGURE MONITOR

www.devopsvisions.com

DevOps Visions is an open source initiative, that aims to help people all over the world to learn DevOps and Cloud.

Live Sessions/ Events

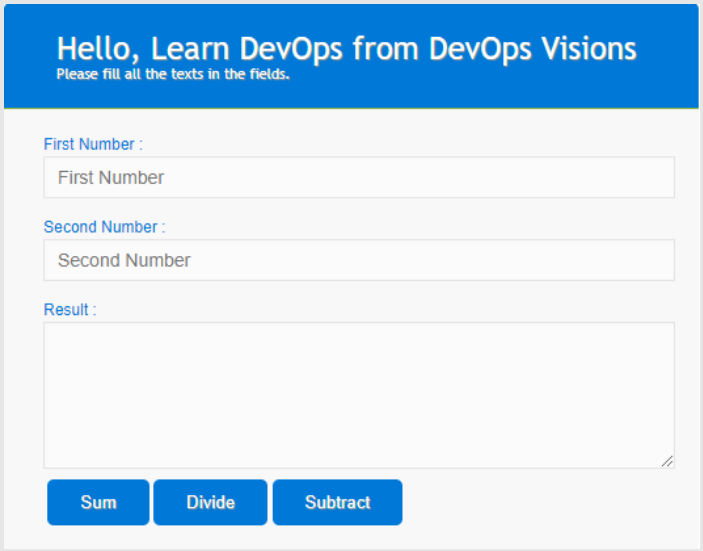
Mentoring People

Open Source

Studying Groups

Jobs

What is EasyApp?



GitHub

https://github.com/DevOpsVisions/EasyApp

Plan | Code | Build | Test | Package | Release | Configure | Monitor

Learn by doing.....End-to-End

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YAML

Q&A

Mohamed Radwan

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Group (A)

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