Q1 - SCENARIO

A car rental company called FastCarz has a .net Web Application and Web API which are recently migrated from on-premise system to Azure cloud using Azure Web App Service

and Web API Service.

The on-premises system had 3 environments Dev, QA and Prod.

The code repository was maintained in TFS and moved to Azure GIT now. The TFS has daily builds which triggers every night which build the solution and copy the build package to drop folder.

deployments were done to the respective environment manually. The customer is planning to setup Azure DevOps Pipeline service for below requirements:

1) The build should trigger as soon as anyone in the dev team checks in code to master branch.

2) There will be test projects which will create and maintained in the solution along the Web and API. The trigger should build all the 3 projects - Web, API and test.

The build should not be successful if any test fails.

3) The deployment of code and artifacts should be automated to Dev environment.

4) Upon successful deployment to the Dev environment, deployment should be easily promoted to QA and Prod through automated process.

5) The deployments to QA and Prod should be enabled with Approvals from approvers only.

Explain how each of the above the requirements will be met using Azure DevOps configuration.

Explain the steps with configuration details.

Publish Artifacts

Azure Artifacts

**Solution**

Publish app on QA

Pull Artifacts

Trigger release pipeline

Publish app on PROD

Publish app on Dev

Approvals

Trigger the pipeline

Push code

PROD

QA

DEV

Azure Pipeline

Azure Pipeline

Azure Repo

USERS











