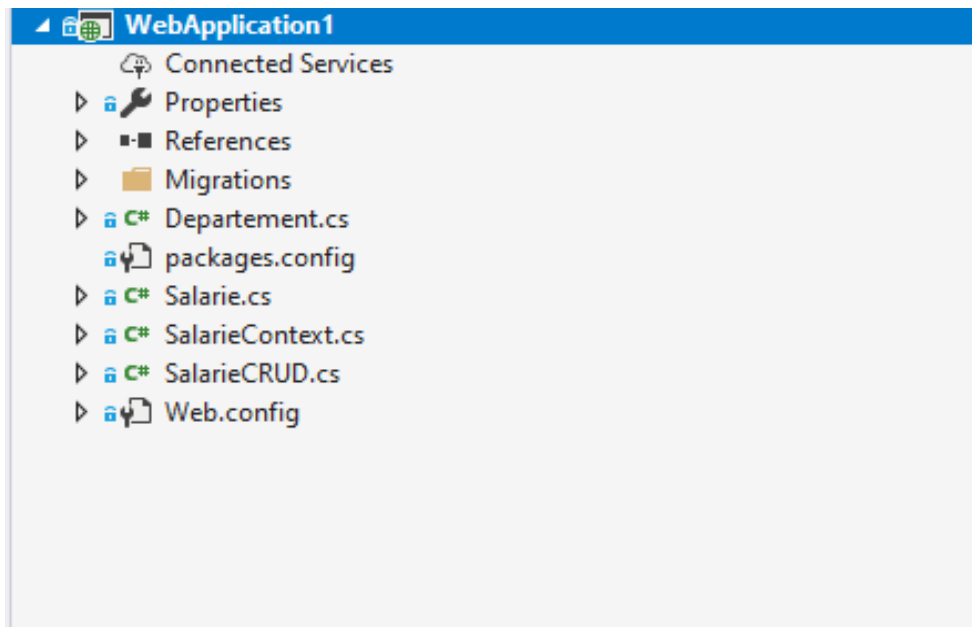
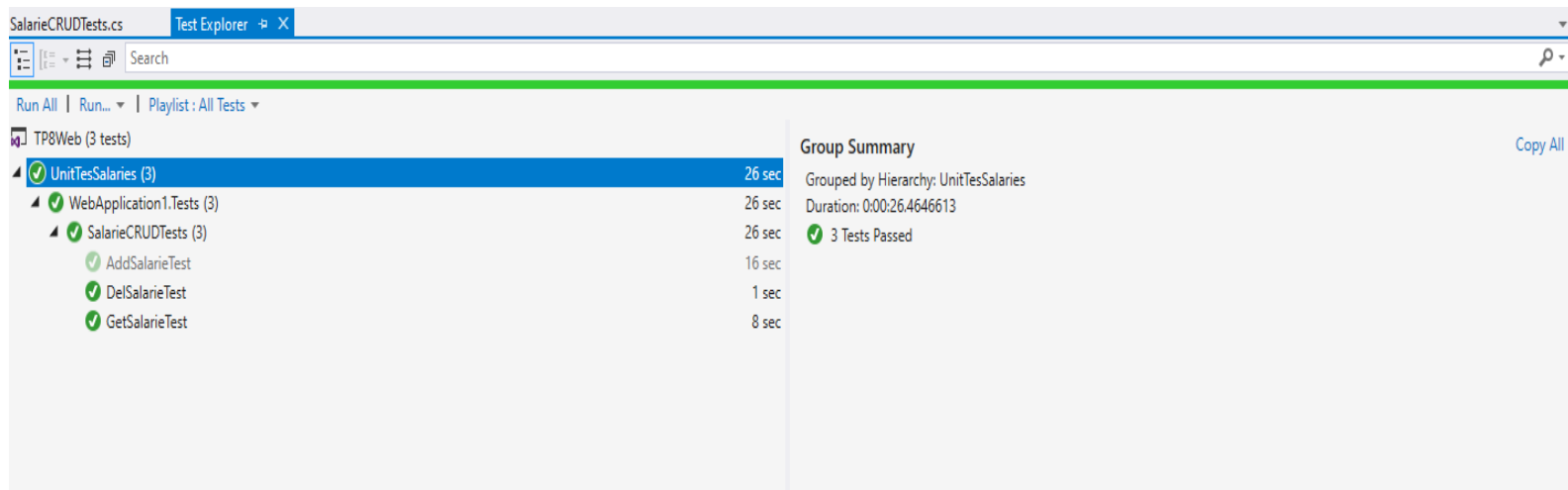


Compte rendu TP11 : Azure CI-CD avec Test Unitaire et déploiement sur Cloud

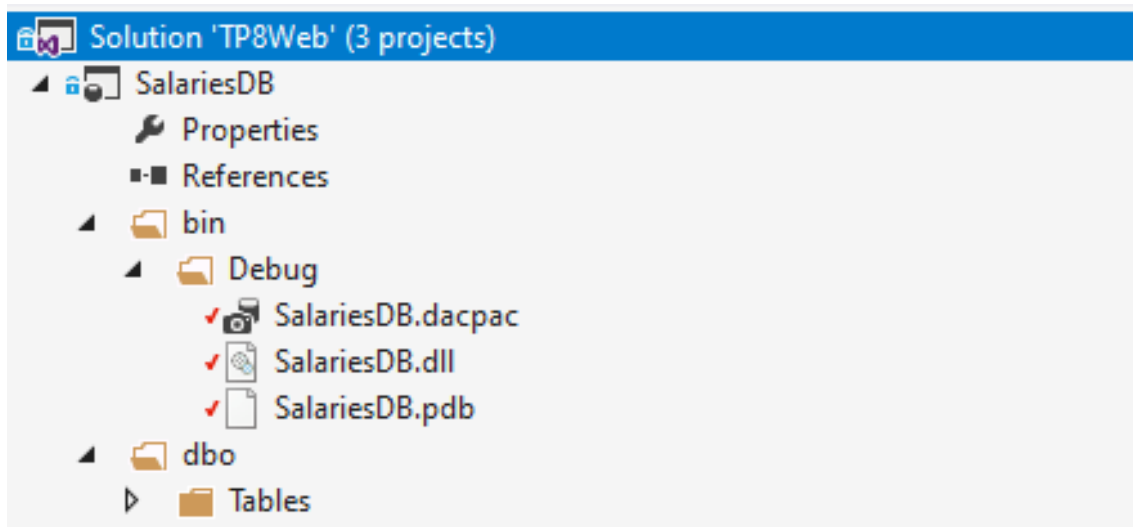
1 - Création projet Entity Framework avec VS 2017 :



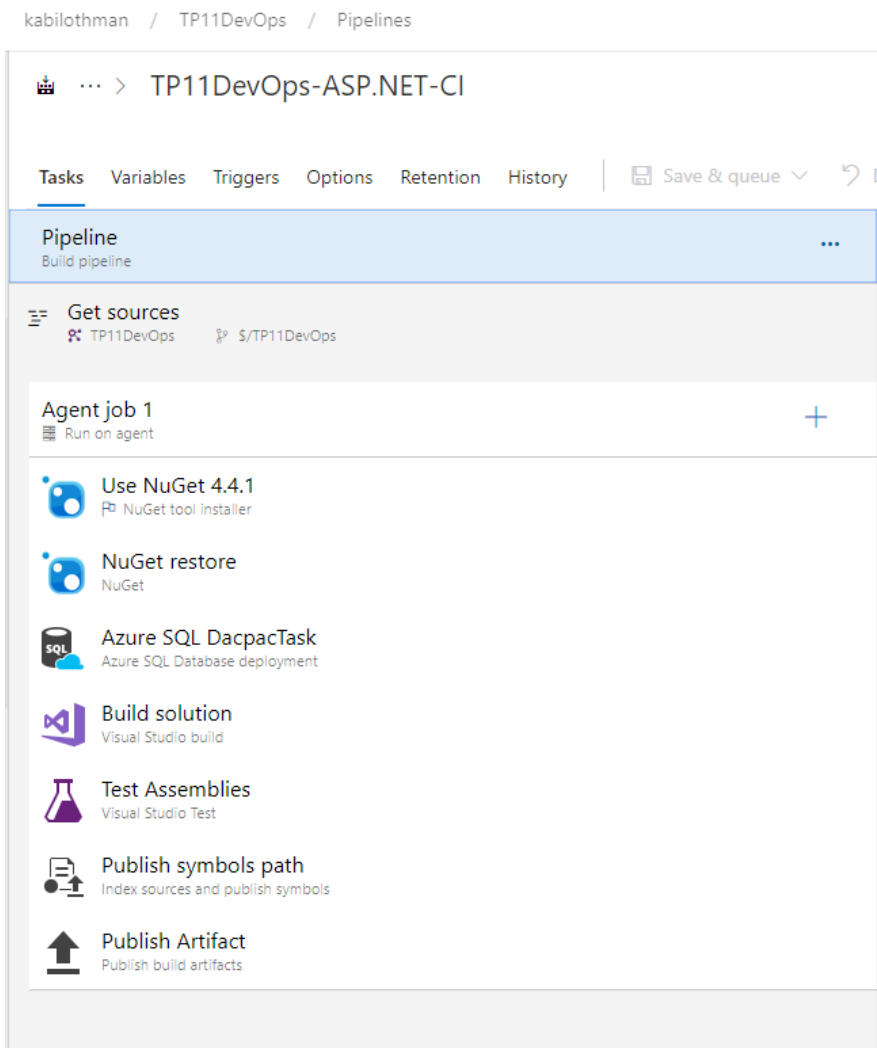
2- Création et exécution de projet de test unitaire avec VS 2017 :



3- Création d'un projet de base de données avec VS 2017 :



4 -Création d'un PipeLine de Build (CI) avec le déploiement sur Azure SQL Server.



4.1- Création de PipeLine de build

[Home](#) > [SQL databases](#) > Create SQL Database

Create SQL Database

Microsoft

[Basics](#) [Networking](#) [Additional settings](#) [Tags](#) [Review + create](#)

Create a SQL database with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults, or visit each tab to customize. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Azure for Students

Resource group * ⓘ

(New) devopsTP

[Create new](#)

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name *

UnitTestingDB

Server * ⓘ

(new) kabiltp11 (East US)

[Create new](#)

Want to use SQL elastic pool? * ⓘ

☐ Yes ☒ No

Compute + storage * ⓘ

General Purpose

Gen5, 2 vCores, 32 GB storage

[Configure database](#)

[Review + create](#)

Next : Networking >

4.2- Création de Base de données SQL sur Azure

Home > Microsoft.SQLDatabase.newDatabaseNewServer_2436b2cf03b5469e829b1 | Overview

Microsoft.SQLDatabase.newDatabaseNewServer_2436b2cf03b5469e829b1 | Overview

Deployment

Search (Ctrl+/) << Delete Cancel Redeploy Refresh

- Overview
- Inputs
- Outputs
- Template

✓ Your deployment is complete

Deployment name: Microsoft.SQLDatabase.newDatabaseNewServ... Start time: 5/19/2020, 3:07:54 AM
Subscription: Azure for Students Correlation ID: dc27f51d-ff8a-44af-b80c-f2808e4fab3b
Resource group: devopsTP

Deployment details (Download)

Next steps

[Go to resource](#)

Azure DevOps kabilothman / TP11DevOps / Pipelines / TP11DevOps-ASP.NET-CI / 20200519.3

TP11DevOps +

- Overview
- Boards
- Repos
- Pipelines**
- Pipelines
- Environments
- Releases
- Library
- Task groups
- Deployment groups
- Test Plans
- Artifacts

Jobs in run #20200519.3

TP11DevOps-ASP.NET-CI

Jobs

✓	Agent job 1	3m 56s
✓	Initialize job	7s
✓	Checkout TP11DevOps@ to s	14s
✓	Use NuGet 4.4.1	1s
✓	NuGet restore	28s
✓	Azure SQL DacpacTask	2m 3s
✓	Build solution	36s
✓	Test Assemblies	12s
✓	Publish symbols path	6s
✓	Publish Artifact	3s
✓	Post-job: Checkout TP11DevOps...	<1s
✓	Finalize Job	<1s

✓ Finalize Job

- Starting: Finalize Job
- Cleaning up task key
- Start cleaning up orphan processes.
- Terminate orphan process: pid (740) (VBCSCompiler)
- Terminate orphan process: pid (3876) (conhost)
- Finishing: Finalize Job

4-3 Running the Pipeline

5- Création d'un PipeLine de Release (CD) pour un déploiement dans App Service sur le cloud :


kabilothman / TP11DevOps / Pipelines / Releases / New release pipeline / Release-1

↑ New release pipeline > Release-1 ▾

Pipeline Variables History | + Deploy ▾ | ⏹ Cancel | ↺ Refresh | ✎ Edit ▾ | ...


Release

Manually triggered

by  Othman KABIL

5/19/2020, 5:52 AM

Artifacts



_TP11DevOps-ASP.NET...
20200519.3

📁 \$/TP11DevOps

Stages

first stage

✔ Succeeded

on 5/19/2020, 6:06 AM

Release Pipeline

Home > tp11test

tp11test
App Service

Search (Ctrl+/) «

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Security
Events

Deployment
Quickstart
Deployment slots

Browse Stop Swap Restart Delete Get publish profile Reset publish profile

Resource group (change) : devopsTP
Status : Running
Location : East US
Subscription (change) : Azure for Students
Subscription ID : 8bb73062-725a-4ab4-95dc-5f229780ce8e
Tags (change) : [Click here to add tags](#)

Diagnose and solve problems
Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

Application Insights
Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

App Service Advisor
App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

Création de App service

kabilothman / TP11DevOps / Pipelines / Releases / New release pipeline / Release-1

New release pipeline > Release-1 > first stage ▾ ✓ Succeeded

← Pipeline Tasks Variables **Logs** Tests | ☁ Deploy ⌛ Cancel ↺ Refresh ⬇ Download all logs ✎ Edit ▾ ...

Deployment attempt #3
Succeeded

✓ **Run on agent**
Succeeded

Run on agent
Pool: [Azure Pipelines](#) · Agent: Hosted Agent

- ✓ Initialize job · succeeded
- ✓ Download artifact - _TP11DevOps-ASP.NET-CI - drop · succeeded
- ✓ Deploy Azure App Service · succeeded
- ✓ Finalize Job · succeeded

Déploiement avec succès

tp11test.azurewebsites.net

Microsoft Azure

Hey, App Service developers!


Your app service is up and running.
Time to take the next step and deploy your code.

Have your code ready?
Use deployment center to get code published from your client or setup continuous deployment.

[Deployment Center](#)

Don't have your code yet?
Follow our quickstart guide and you'll have a full app ready in 5 minutes or less.

[Quickstart](#)



Fin