Enterprise Applications Azure DevOps

Kenneth D. Swegman Jr.

Quick Introduction

- Kenneth D. Swegman Jr.

- La Roche University

- Major: Computer Science

- Minor: Computer Security

- Winter 2019

- Thanks to the people who supported me during this internship, namely (Dharmesh Desai, Jerry Regan, Robert Stampfle, Mike Bonetti, and Stephen Brooks).

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Tools

Microsoft Azure

- Cloud Computing Platform

Power-BI

- Cloud Based Reporting Tool

Azure Admin

- Maintained Access Control of Azure Resources
- Deployed VMs and Databases

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Tagging Azure Resource Groups

Tagging Process

- Billing
- Reporting

Tagged Azure Resource Groups

- Environment
- App Name
- App Tier
- Department
- Work Order
- Cost Center

Created Azure Resource Group Tagging Policy

- When new Resource Group is created, has to have new tags

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SonarQube Server & DB

Created VM and Azure SQL DB → Configured VM to DLC Standards → Followed up with PM to ensure project was ready for development

Dev side of Dev/Ops
Technologies I learned

Logic Apps

Azure SQL DB

ARM Templates

Azure DevOps
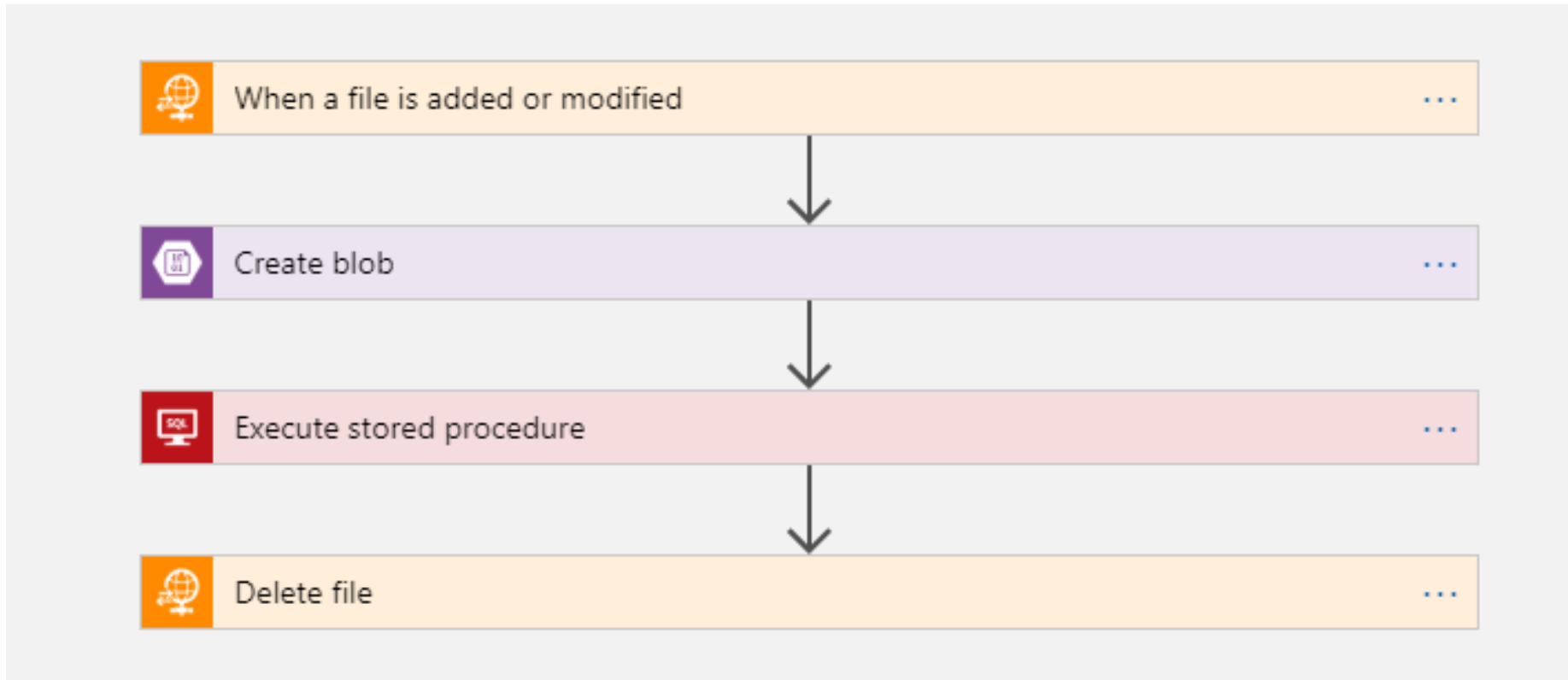
Azure PowerShell

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AccuWeather Project Overview

Finance procures AccuWeather Data

Process is done manually to get Data currently

Project is to automate process of getting AccuWeather Data

Logic App Workflow

When a file is added or modified ...

Create blob ...

Execute stored procedure ...

Delete file ...

FTP Trigger in Logic App

When a file is added or modified ⓘ ⋯

*Folder

/ 📁

Include file content

Yes ∨ ✕

Infer Content Type

Yes ∨ ✕

How often do you want to check for items?

*Interval	*Frequency
1	Minute ∨

Add new parameter ∨

Connected to ftpapi. Change connection.

Azure Blob in Logic App

Execute Stored Procedure in Logic App

FTP Delete file from Server

AccuWeather Data in Azure SQL DB

	Weather_Station_Code	Data_Type	Date	Time	Time_Zone	Lat_Station	Long_Station	Elev_Station	Temperature
385609	KPIT	O	2011-07-02	01:00:00	EST	40.491	-80.233	1204	65
385610	KPIT	O	2011-07-02	02:00:00	EST	40.491	-80.233	1204	63
385611	KPIT	O	2011-07-02	03:00:00	EST	40.491	-80.233	1204	63
385612	KPIT	O	2011-07-02	04:00:00	EST	40.491	-80.233	1204	62
385613	KPIT	O	2011-07-02	05:00:00	EST	40.491	-80.233	1204	61
385614	KPIT	O	2011-07-02	06:00:00	EST	40.491	-80.233	1204	63
385615	KPIT	O	2011-07-02	07:00:00	EST	40.491	-80.233	1204	66
385616	KPIT	O	2011-07-02	08:00:00	EST	40.491	-80.233	1204	72
385617	KPIT	O	2011-07-02	09:00:00	EST	40.491	-80.233	1204	76
385618	KPIT	O	2011-07-02	10:00:00	EST	40.491	-80.233	1204	79
385619	KPIT	O	2011-07-02	11:00:00	EST	40.491	-80.233	1204	81
385620	KPIT	O	2011-07-02	12:00:00	EST	40.491	-80.233	1204	83
385621	KPIT	O	2011-07-02	13:00:00	EST	40.491	-80.233	1204	82
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385626	KPIT	O	2011-07-02	18:00:00	EST	40.491	-80.233	1204	80
385627	KPIT	O	2011-07-02	19:00:00	EST	40.491	-80.233	1204	80
385628	KPIT	O	2011-07-02	20:00:00	EST	40.491	-80.233	1204	78
385629	KPIT	O	2011-07-02	21:00:00	EST	40.491	-80.233	1204	77
385630	KPIT	O	2011-07-02	22:00:00	EST	40.491	-80.233	1204	76
385631	KPIT	O	2011-07-02	23:00:00	EST	40.491	-80.233	1204	75
385632	KPIT	O	2011-07-03	00:00:00	EST	40.491	-80.233	1204	75
385633	KPIT	O	2011-07-03	01:00:00	EST	40.491	-80.233	1204	71
385634	KPIT	O	2011-07-03	02:00:00	EST	40.491	-80.233	1204	68
385635	KPIT	O	2011-07-03	03:00:00	EST	40.491	-80.233	1204	69

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Power-BI Weather Data Dashboard
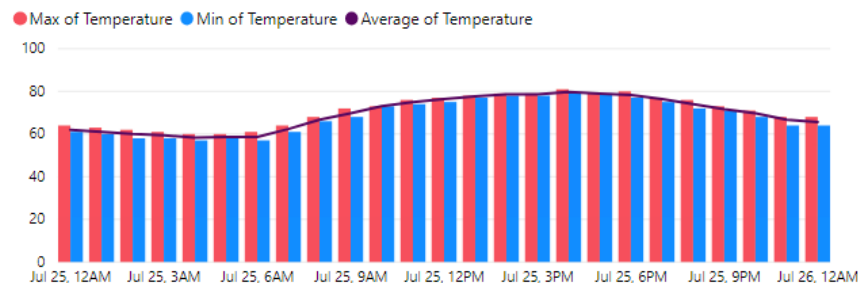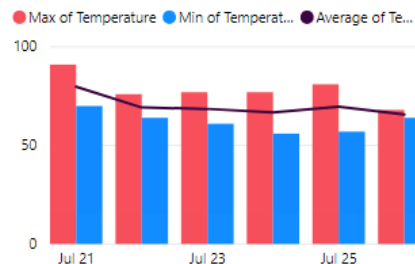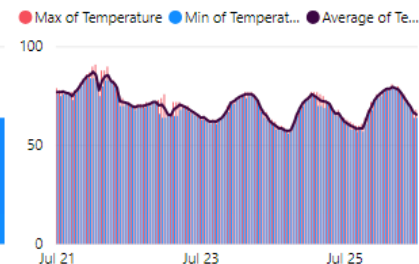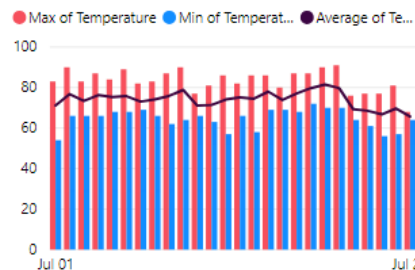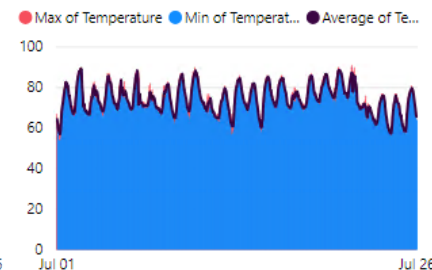
Power-BI Archive Weather Data