

# Azure App Services



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<https://www.meetup.com/Code-Digest/>

```
Code.Digest();
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# About Me

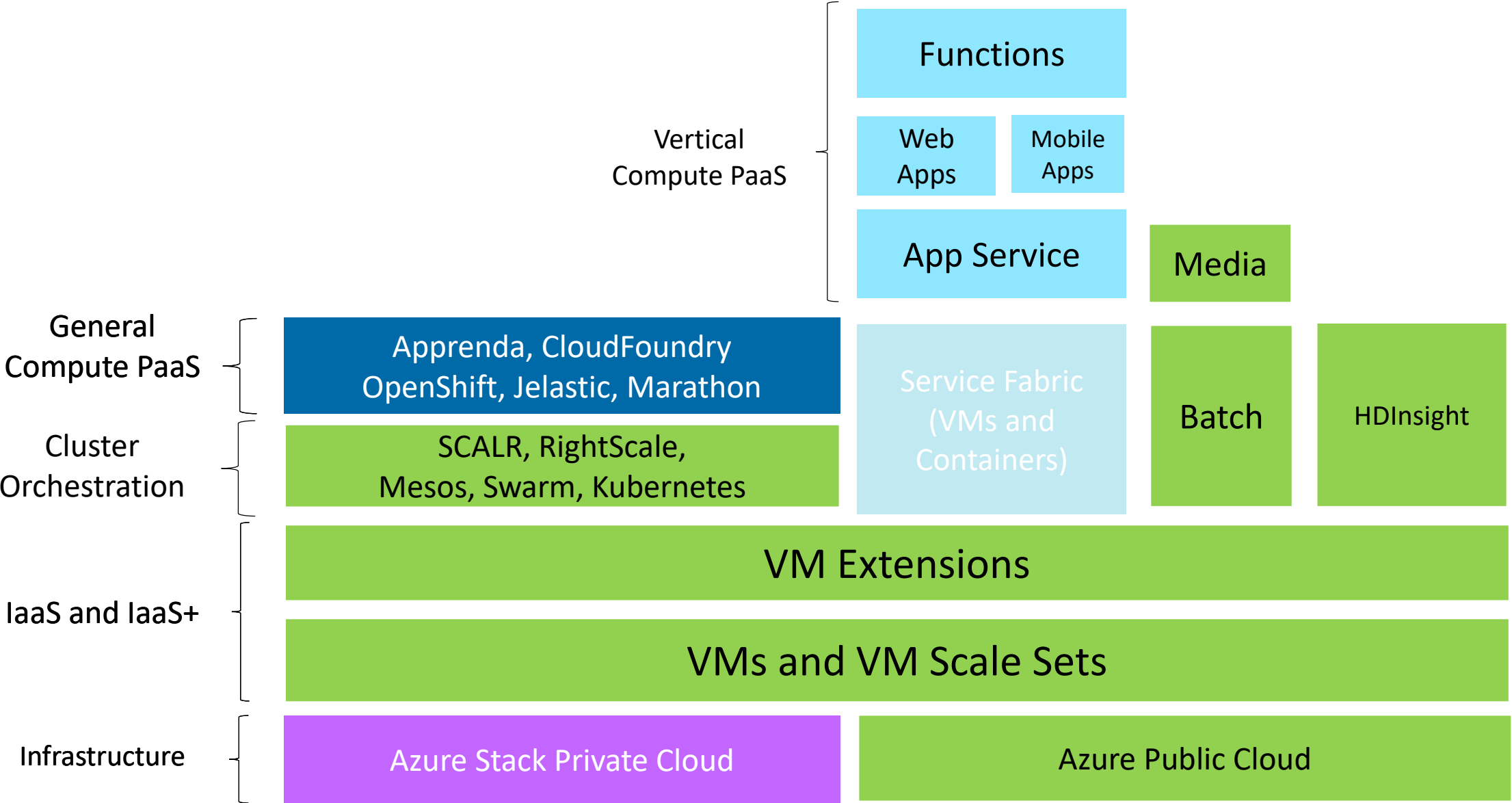


`Code.Digest();`

## Alex Pshul

- Architect, Consultant and lecturer
- More than 9 years of hands on experience
- Co-organizer of the Code.Digest Meetup
  - <https://www.meetup.com/Code-Digest/>
- Talk to me about:
  - Software Development
  - Hardware and Gadgets
  - Gaming
  - Animals

# Service hosting & management layers



# Agenda

- Web Apps
- App Service Plans
- Deployment Slots
- Mobile Apps
- API Apps
- Logic Apps

# Azure App Services

- Building and hosting web applications without managing infrastructure
- Offers auto-scaling and high availability
- Supports both Windows and Linux
- Enables automated deployments from GitHub, VSTS, or any Git repo
- Service App suite includes
  - **Web Apps** - websites and web applications
  - **API Apps** - RESTful APIs
  - **Mobile Apps** - mobile app back ends
  - **Logic Apps** - automating business processes and integrating systems and data across clouds without writing code
- **Azure Functions** are also based on the App Services infrastructure

# Azure Web APPS

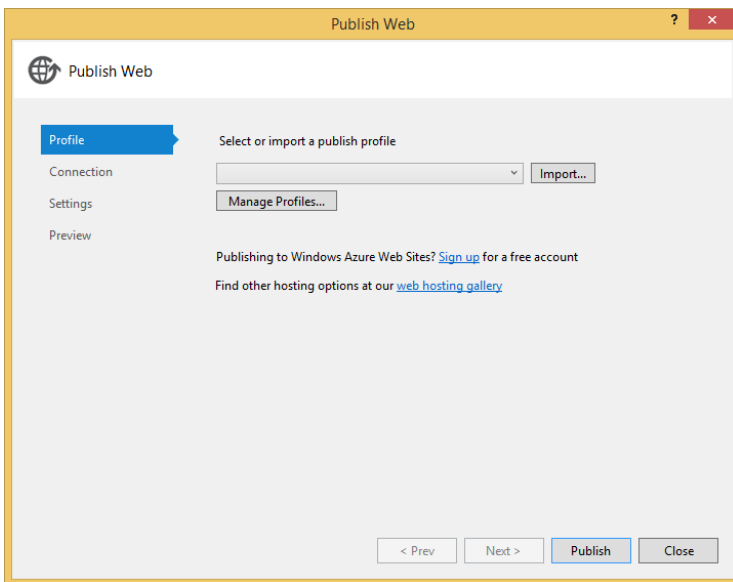
Azure App Services

# Azure Web Sites

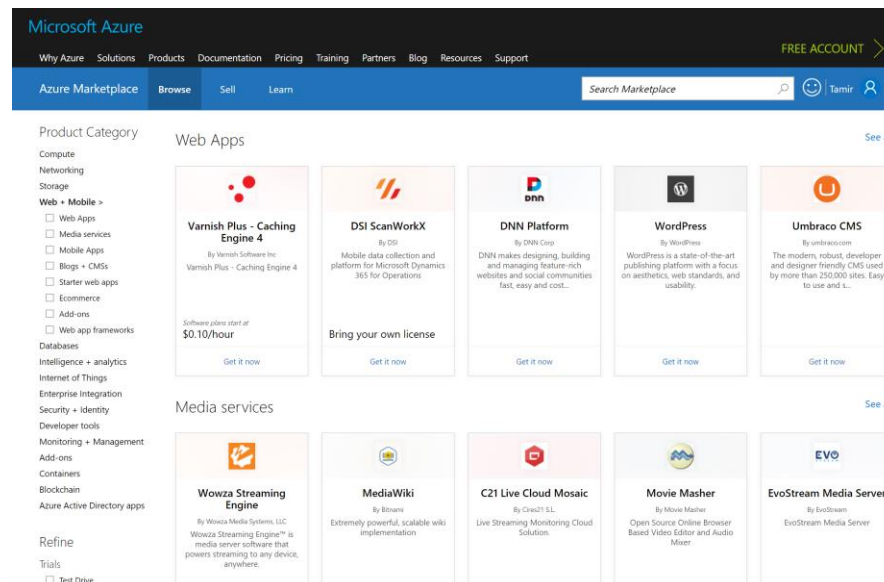
- Provision a Web Application Fast
- You can use IDE, PowerShell, Portal
- Deploy Easily via a Source Control

# Creating a Web Site

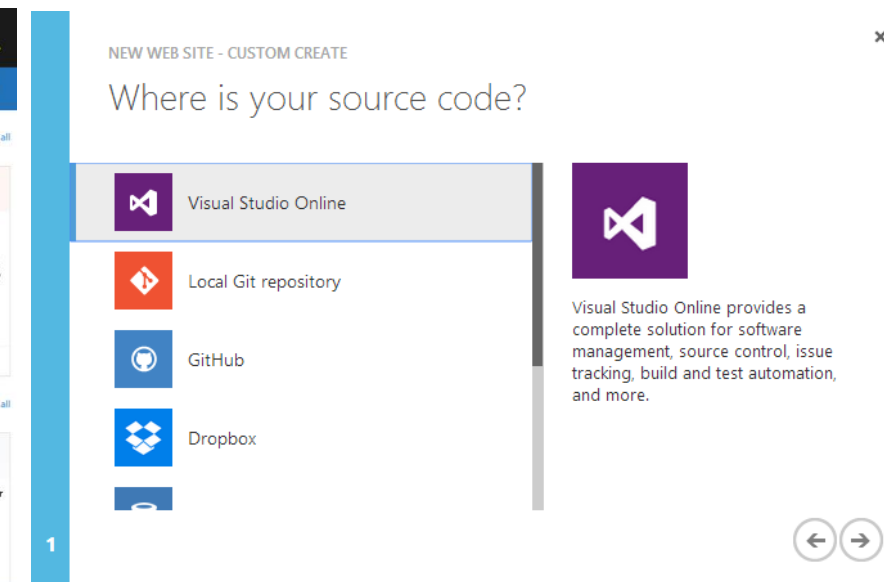
## Publish from VS



## From Gallery



## Sync with Source Control





# App Service Plan

- Represents a set of feature and capacity that can be shared across multiple apps in Azure App Service.
- This is the physical resources representative
- Apps can share the Service Plan if they are in the same subscription and same location
- A good usage for example is to share resources for each environment (DEV, TEST, PROD)

# App Service Plan

- **Shared compute**

**Free** and **Shared**, the two base tiers, runs an app on the same Azure VM as other App Service apps, including apps of other customers. These tiers allocate CPU quotas to each app that runs on the shared resources, and the resources cannot scale out.

- **Dedicated compute**

The **Basic**, **Standard**, **Premium**, and **PremiumV2** tiers run apps on dedicated Azure VMs. Only apps in the same App Service plan share the same compute resources. The higher the tier, the more VM instances are available to you for scale-out.

# App Service Plan

- **Isolated**

This tier runs dedicated Azure VMs on dedicated Azure Virtual Networks, which provides network isolation on top of compute isolation to your apps. It provides the maximum scale-out capabilities.

- **Consumption**

This tier is only available to [function apps](#). It scales the functions dynamically depending on workload. For more information, see [Azure Functions hosting plans comparison](#).

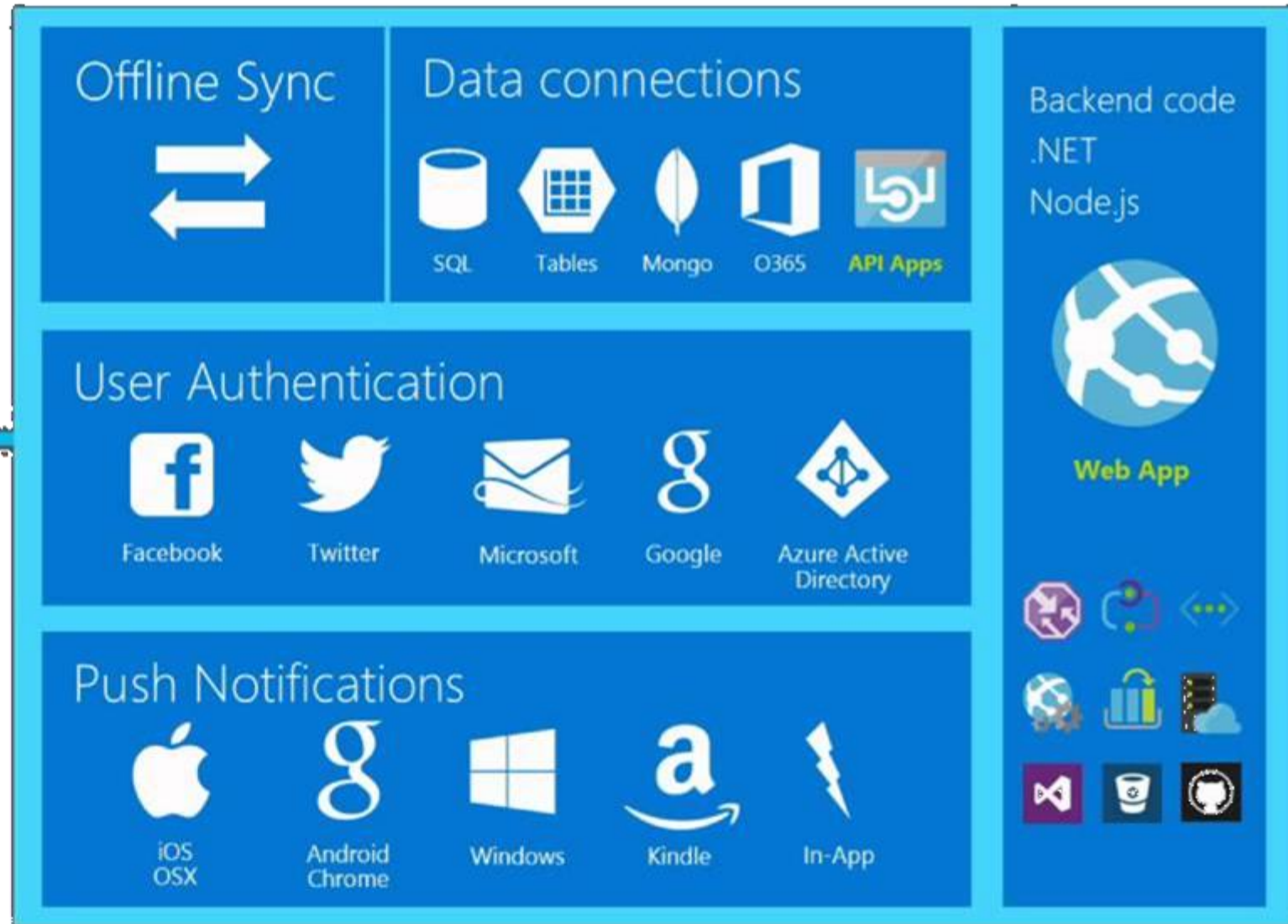
# Mobile Apps

Azure App Services

# What is Mobile Apps?



REST API



# Structured Storage

- Powered by SQL Database
- Same DB – Multiple Mobile Services
- Data management in
  - Windows Azure Portal
  - SQL Portal
  - SQL Management Studio
  - REST API
  - CLI Tools
- JSON to SQL Type Mappings

# The REST API

## Base REST API Endpoint URL

<https://Mobileservice.azure-mobile.net/tables/>\*

## Data Operations and their REST Equivalents

Action	HTTP Verb	URL Suffix
Create	POST	/TodoItem
Read	GET	/TodoItem?\$filter=id%3D42
Update	PATCH	/TodoItem/id
Delete	DELETE	/TodoItem/id

# API Apps

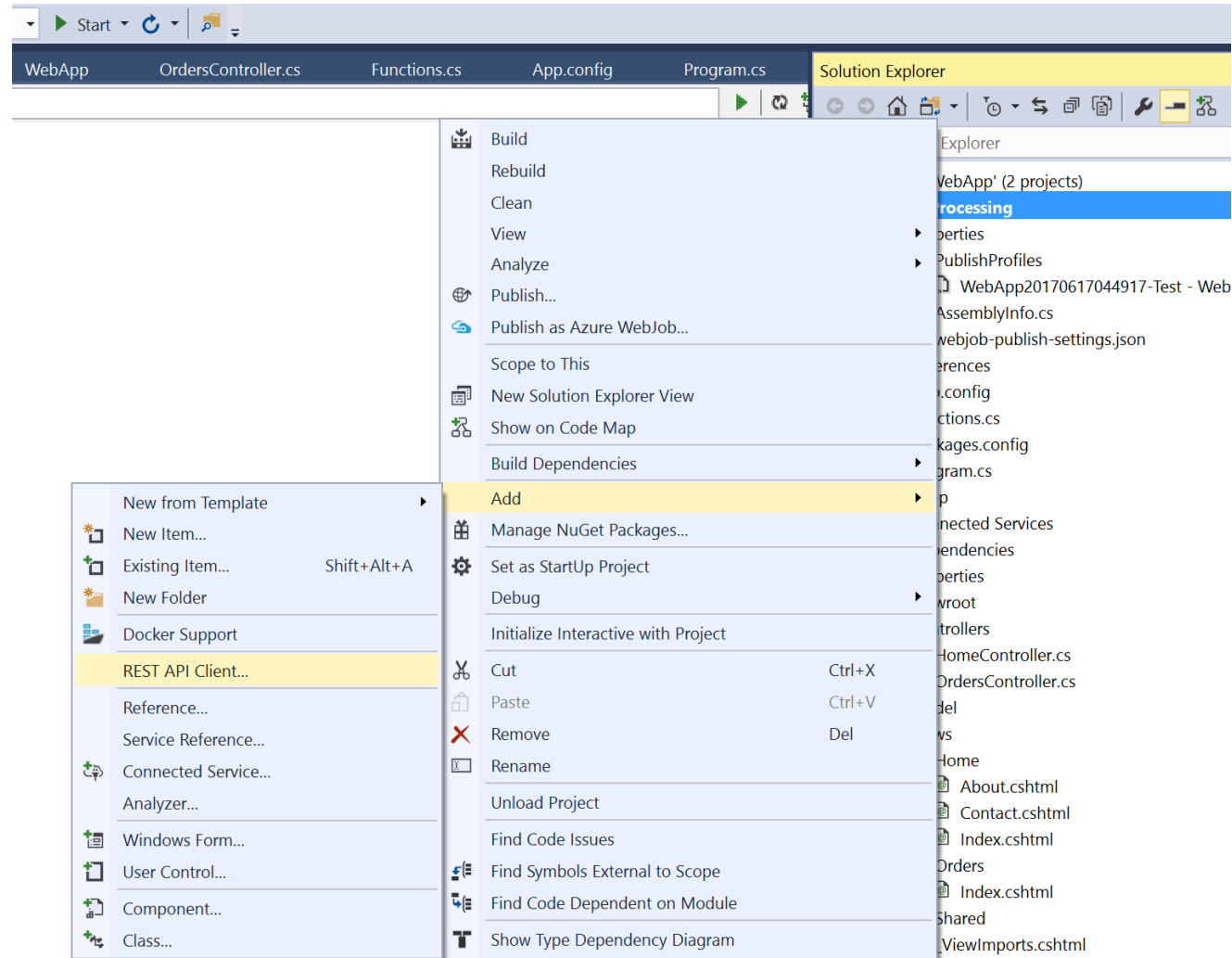
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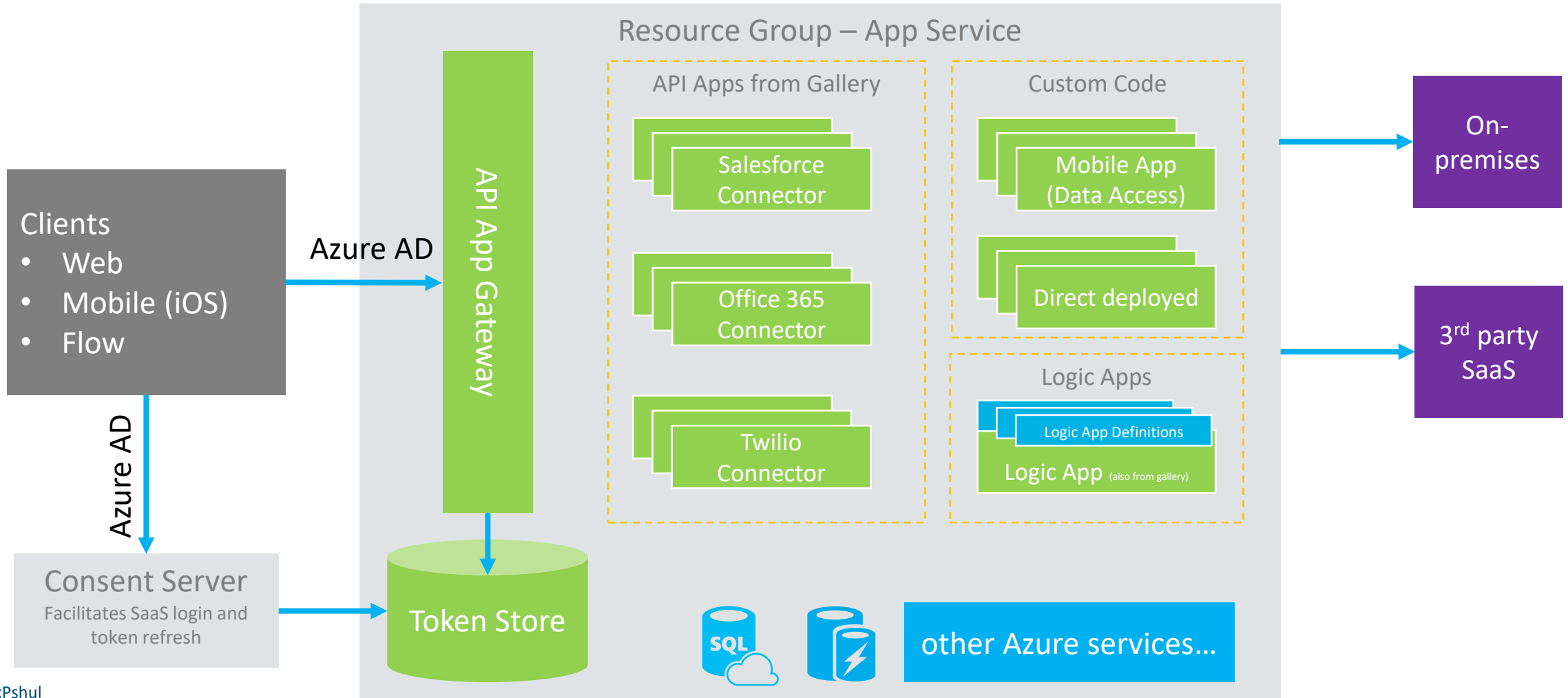
# API Apps

- Basically Web Apps for Web Api's
- Simple access control
- Swagger metadata
- Logic App Integration
- Marketplace support for connectors
- VS tooling and support (for client side as well)

# Creating REST Client from Swagger



# API Apps Architecture Example



# Logic Apps

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# Logic Apps

- Visually create business process and workflows based on Triggers and Actions
- Deliver integration capabilities in Web, Mobile, and API Apps
- Integrate with your SaaS and enterprise applications
- Automate EAI/B2B and business processes
- Connect to on-premises data

# Logic App Designer

Microsoft Azure

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

alex@pshul.com  
DEFAULT DIRECTORY

[Home](#) > [Logic Apps](#) > [TestApp](#) > Logic Apps Designer

Logic Apps Designer

Introducing Azure Logic Apps

Watch later Share

Building integration solutions is easier than ever. Logic Apps brings speed and scalability into the enterprise integration space. The ease of use of the designer, variety of available triggers and actions, and powerful management tools make centralizing your APIs simpler than ever. As businesses move towards digitalization, Logic Apps allows you to connect legacy and cutting-edge systems together.

- Create business processes and workflows visually
- Integrate with SaaS and enterprise applications
- Unlock value from on-premises and cloud applications

Start with a common trigger

Pick from one of the most commonly used triggers, then orchestrate any number of actions using the rich collection of connectors

When a message is received in a Service Bus queue

When a HTTP request is received

When a new tweet is posted

When an Event Grid resource event occurs

Recurrence

When a new email is received in Outlook.com

When a new file is created on OneDrive

When a file is added to FTP server

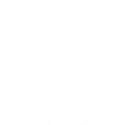
Templates

Choose a template below to create your Logic App.

Category : All

Sort by : Popularity

# Built-in API Connectors



## Connectors

- Box
- Chatter
- Delay
- Dropbox
- Azure HD Insight
- Marketo
- Azure Media Services
- OneDrive
- SharePoint
- SQL Server
- Office 365
- Oracle
- QuickBooks
- SalesForce
- Sugar CRM
- SAP
- Azure Service Bus
- Azure Storage
- Timer / Recurrence
- Twilio
- Twitter
- IBM DB2
- Informix
- Websphere MQ
- Azure Web Jobs
- Yammer
- Dynamics CRM
- Dynamics AX
- Hybrid Connectivity

## Protocols

- HTTP, HTTPS
- File
- Flat File
- FTP, SFTP
- POP3/IMAP
- SMTP
- SOAP + WCF

## BizTalk Services

- Batching / Debatching
- Validate
- Extract (XPath)
- Transform (+Mapper)
- Convert (XML-JSON)
- Convert (XML-FF)
- X12
- EDIFACT
- AS2
- TPMOM
- Rules Engine

