Microsoft

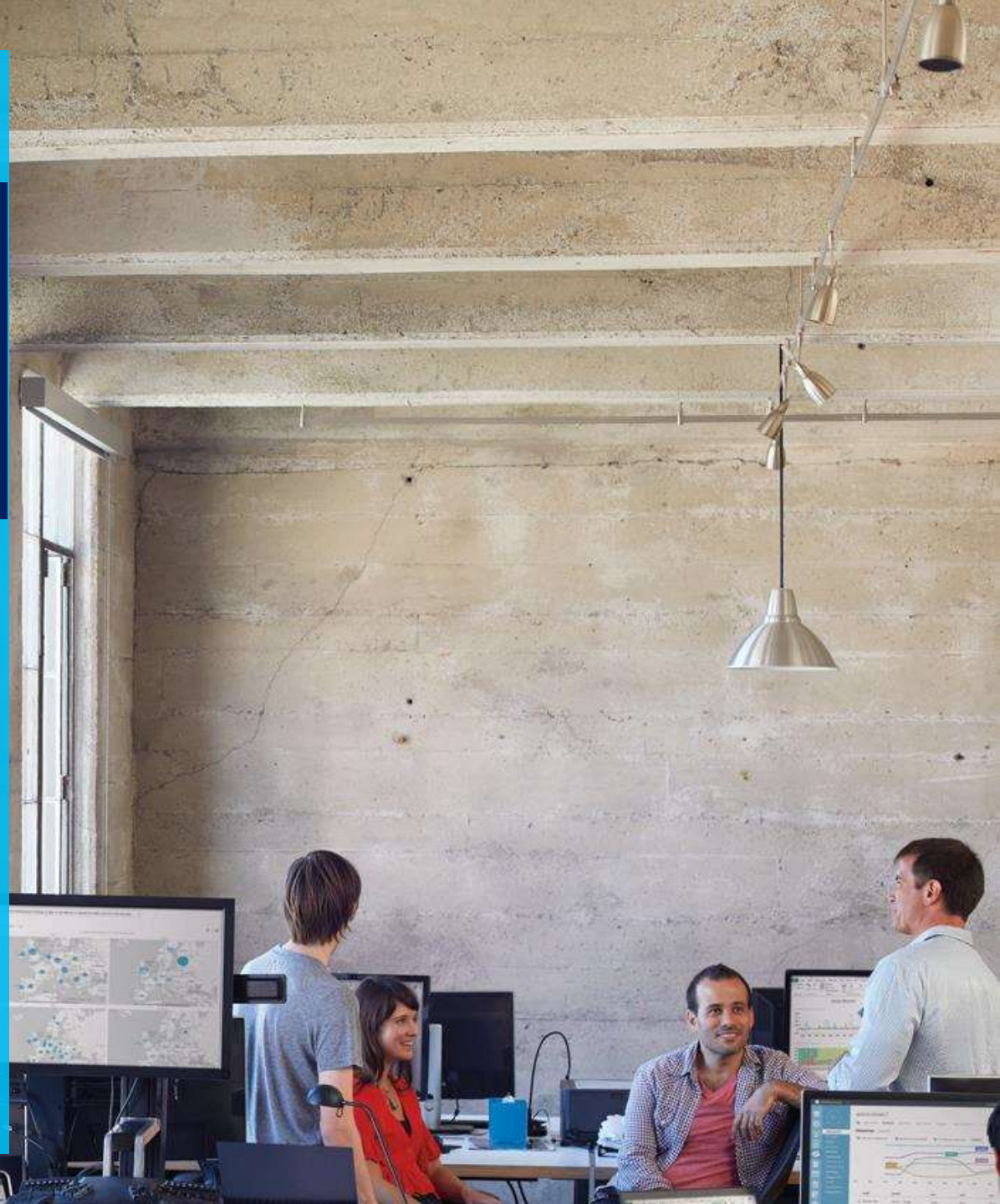
Microsoft Azure Power Lunch

Today's Topic:
Azure Logic Apps Preview

Series website: http://azurepowerlunch.com/

On-Demand Session Information (Recordings) are available here:
Azure Power Lunch YouTube Channel

Date: 4th June, 2021



Naveed Zaheer – Cloud Solution Architect

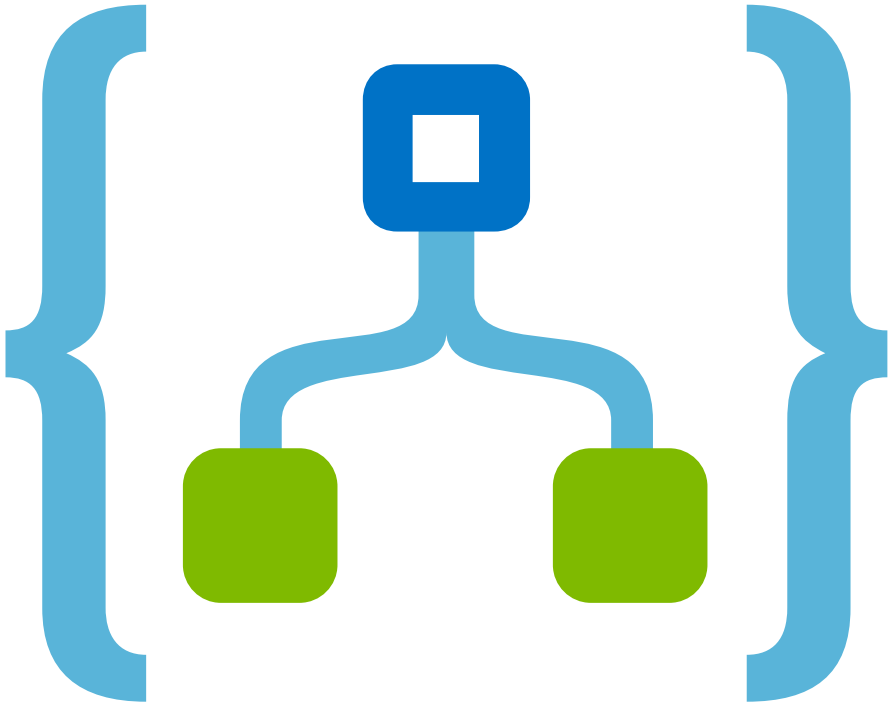
- Been with Microsoft for more than 16 years and in software industry for more than 24 years
- Spent 10+ years with Microsoft Consulting Services in areas such as AppDev, Distributed Applications, SOA and Cloud Applications
- Working with Azure since its inception
- Currently in a Cloud Solution Architect role

Azure Logic Apps – Latest Updates from Build 2021

Azure Logic Apps

Automate workflows and orchestrate business processes easily

- Out-of-the-box connectors reduce integration challenges
- Connect and integrate data from the cloud to on-premises
- B2B and enterprise messaging in the cloud
- Powerful web-based workflow designer



Logic Apps – Latest Updates

- Logic Apps will now run on a new containerized runtime:
  - Run on Functions, App Service, Kubernetes, Docker and any cloud.
  - Deploy multiple workflows to a single Logic App simplifying automated deployments and CI/CD pipelines.
  - Enable enterprise features such as private endpoints, simpler and more cost effective VNET access, deployment slots, and more.
  - A new SKU i.e., Logic Apps (Standard) to provide flexibility and ease of deployment
- New Visual Studio code extension that allows local development.
- Stateless workflows that can significantly enhance performance for request/ response scenarios.
- Modern and compact design making it easier to author larger, more complex workflows and view more steps at once without scrolling.

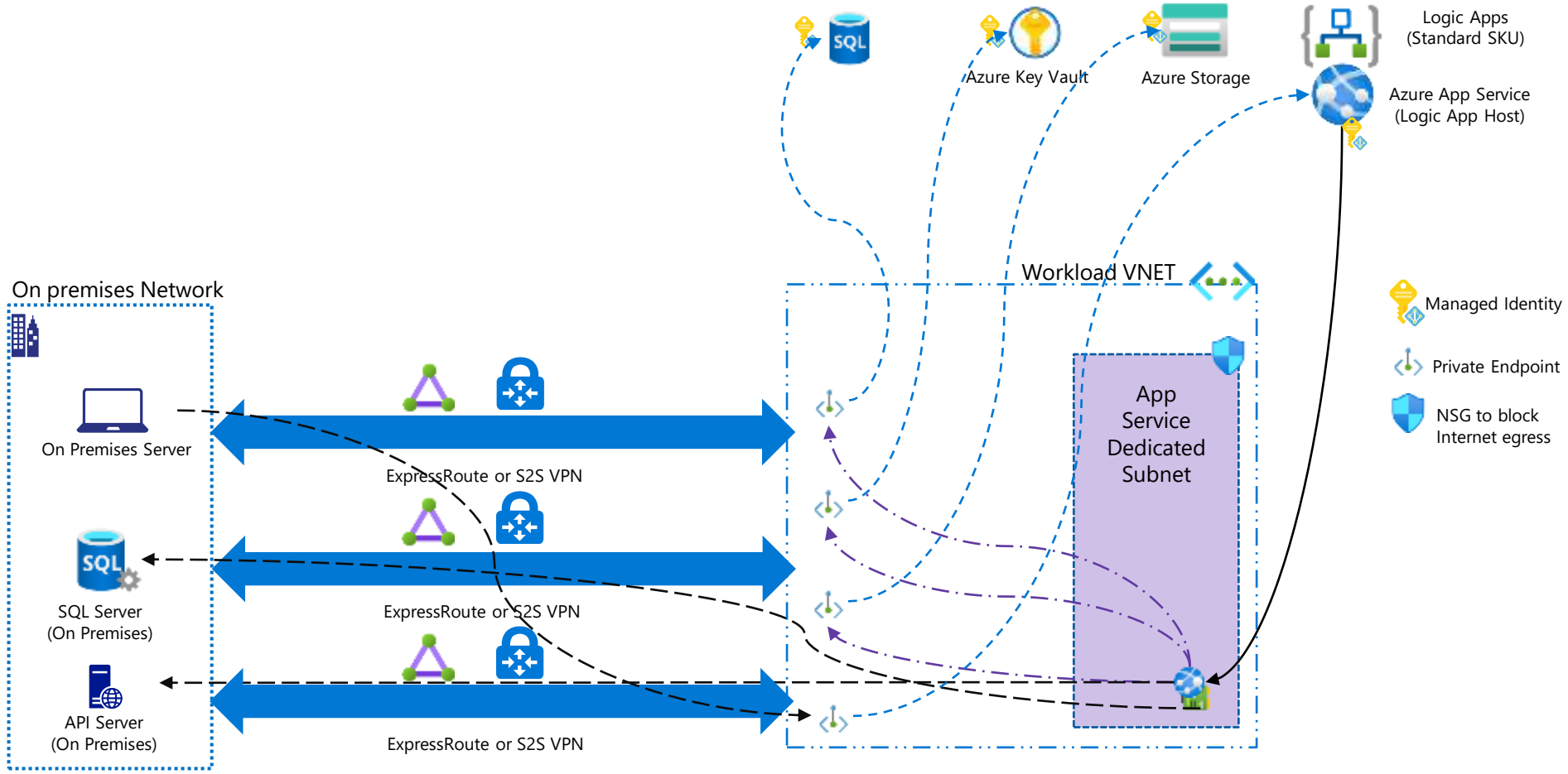
Logic Apps – Resource Types

Resource type	Benefits	Resource sharing and usage	Pricing and billing model
Logic App (Consumption) Host environment: Multi-tenant	- Easiest to get started - Pay-for-what-you-use - Fully managed	A single logic app can have only one workflow. Logic apps created by customers across multiple tenants share the same processing (compute), storage, network, and so on.	Consumption (pay-per-use)
Logic App (Standard) Host environment: Single-tenant	- Run anywhere that Azure Functions can run using the containerized single-tenant Azure Logic Apps runtime. Deployment slots are currently not supported. - More built-in connectors for higher throughput and lower costs at scale - More control and fine-tuning capability around runtime and performance settings - Integrated support for virtual networks and private endpoints. - Create your own built-in connectors.	A single logic app can have multiple stateful and stateless workflows. Workflows in a single logic app and tenant share the same processing (compute), storage, network, and so on.	Based on a hosting plan with a selected pricing tier If you run stateful workflows, which use external storage, the Azure Logic Apps runtime makes storage transactions that follow Azure Storage pricing.
Logic App (Consumption) Host environment: Integration service environment (ISE)	- Enterprise scale for large workloads - 20+ ISE-specific connectors that connect directly to virtual networks - Predictable pricing with included usage and customer-controlled scaling	A single logic app can have only one workflow. Logic apps in the same environment share the same processing (compute), storage, network, and so on.	ISE (fixed)

Logic Apps – Standard Tier

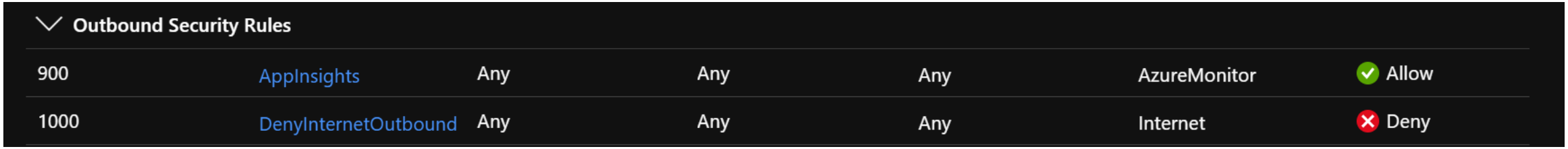
Pricing tier	Monthly US$ (East US)	Virtual CPU (core)	Azure Compute Unit (ACU)	Memory (GB)	Storage (GB)
WS1	$175.20	1	210	3.5	250
WS2	$350.40	2	420	7	250
WS3	$700.80	4	840	14	250

Logic Apps – Reference Architecture w/ Standard Tier



Logic Apps – Reference Architecture w/ Standard Tier

- Important Configuration Steps
  - Setup VNET Integration for the Logic App (Standard)
  - For the storage account created with Standard plan:
    - Upgrade the Storage Account (V1) to V2.
    - Create private endpoints for blob, file, queue and table in the same VNET but in a different subnet as the one used by the Logic App (Standard) for VNET integration
  - Add the following App Settings to the Logic App (Standard) Configuration
    - "name": "WEBSITE_VNET_ROUTE_ALL" -"value": "1"
    - "name": "WEBSITE_DNS_SERVER" -"value": "168.63.129.16"
    - "name": "WEBSITE_CONTENTOVERVNET"- "value": "1"
  - Place an NSG with following rules to block all outbound traffic except Azure Monitor
    - Please note that you will only be able to use the "Built-in" connectors and not any Azure Connector



Logic Apps Latest Features

- New Designer
  - Apps workflow designer sports a more modern, compact design
  - Makes it easier to author larger, more complex workflows and view more steps at once without scrolling
  - Step configuration has been moved out of the cards into a new panel design for simpler and faster authoring.
  - Additional features planned including a new layout engine enabling additional gestures to enable you more control over how your workflows are organized.
- Stateless Workflows
  - Almost the same features but better performance for request/response scenarios
  - Enable Logic Apps to be used as high performing backend APIs to your applications
  - Enable API orchestration visually to be able to more easily understand complex service interactions – without performance penalty.

Resources

- Single-tenant versus multi-tenant and integration service environment for Azure Logic Apps
- Create an integration workflow using single-tenant Azure Logic Apps and the Azure portal
- Create an integration workflow using single-tenant Azure Logic Apps and Visual Studio Code