

Building Modern Apps with Azure, React, NextJS, and Angular

Solutions for Success Education Series

Solutions for **Success**



POINT ALLIANCE

Agenda

- About Point Alliance
- Benefits of using Azure Cloud Services
- Solution Architecture
- Front-End Layer
- Integration Layer
- Back-End Layer
- Monitoring
- Questions



Point Alliance

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Point Alliance

- Microsoft Solutions Partner
 - Modern Work
 - Security
 - Digital & App Innovation Azure
 - Data & AI Azure
- Microsoft Gold Partner with 11 Competencies (legacy)
- 100% Microsoft Certified Team
- pointalliance.com/companyprofile



Building Modern Apps with Azure

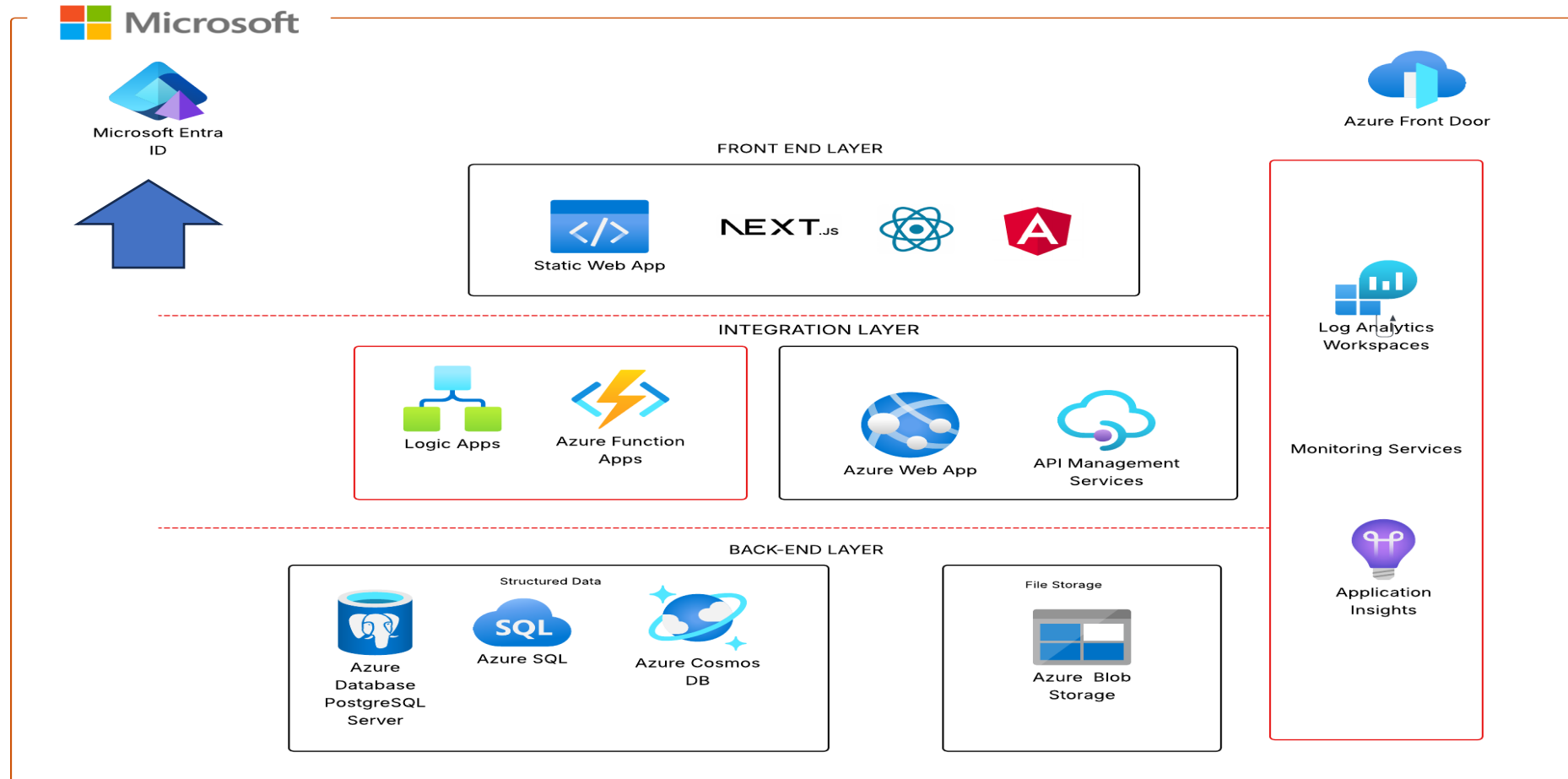
Benefits of using Azure Services

Global Reach

- **Availability:** Azure is available worldwide you can deploy your database in different region by reducing the latency
- **Cost:** Consumption-based pricing, it can be low-cost to run schedule jobs and background task
- **Scalability:** Auto or Manual scale to handle workload at any time, this supports rapid development, best use for single time research and high computation requirement
- **Reliability:** For storage options it provides: build-in reliability, disaster recovery, you can keep copy of your data at multiple locations multiple times, everything is encrypted at rest
- **Wide Range of Services:** Compute, Database, Storage, Networking, Analytics, IoT, DevOps

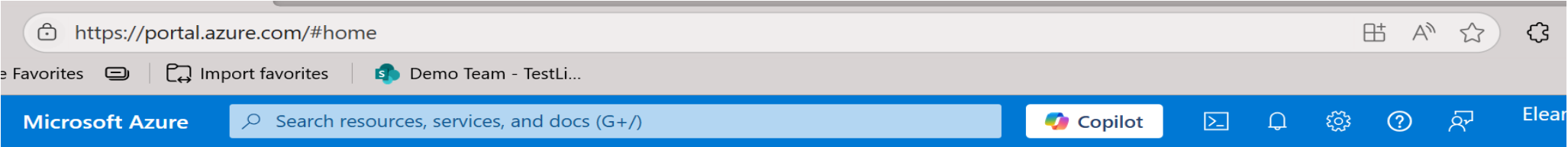
Solution Architecture

Azure Resources: Building Application



Azure Portal

Microsoft: Portal Azure



Azure services


Create a resource


Static Web Apps


Subscriptions


Cost Management


App Services


Enterprise applications


Microsoft Entra ID


Cost Management ...


Logic apps

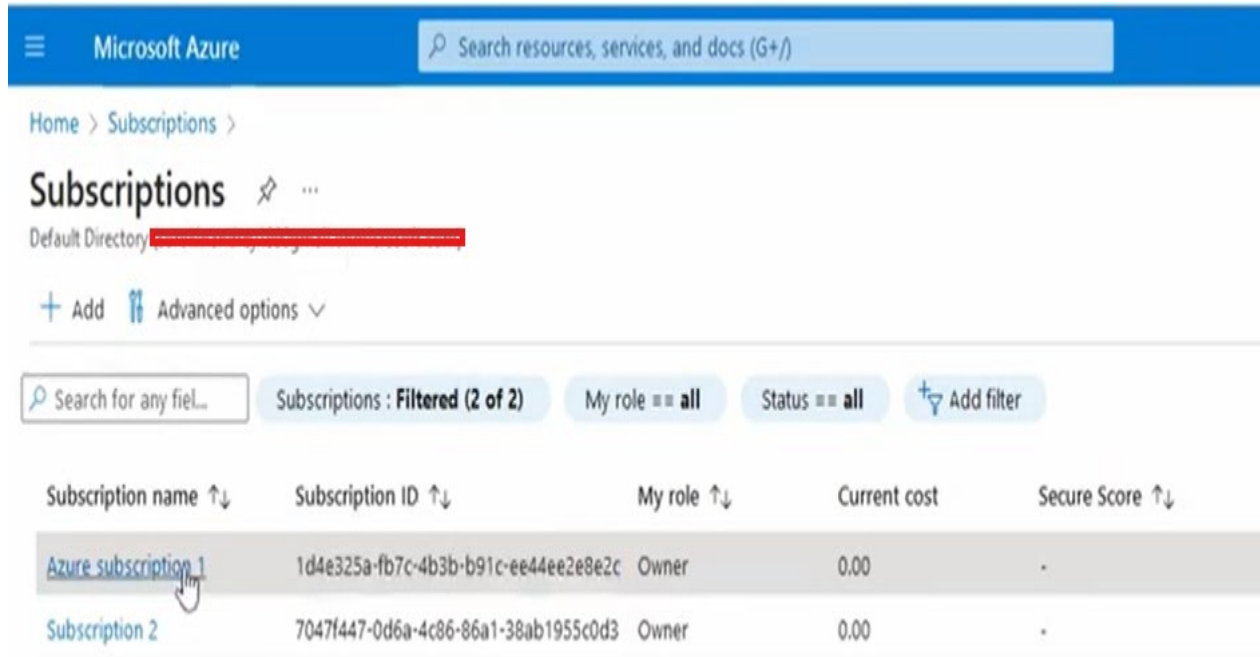

More se

Resources

Recent Favorite

Name	Type	Last Viewed
 activityreport	Static Web App	a few seconds ago
 PAI_App_Demo	Resource group	5 days ago

Azure Subscription



Microsoft Azure

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

Home > Subscriptions >

Subscriptions

Default Directory

+ Add Advanced options

Search for any field...

Subscriptions: Filtered (2 of 2)

My role == all

Status == all

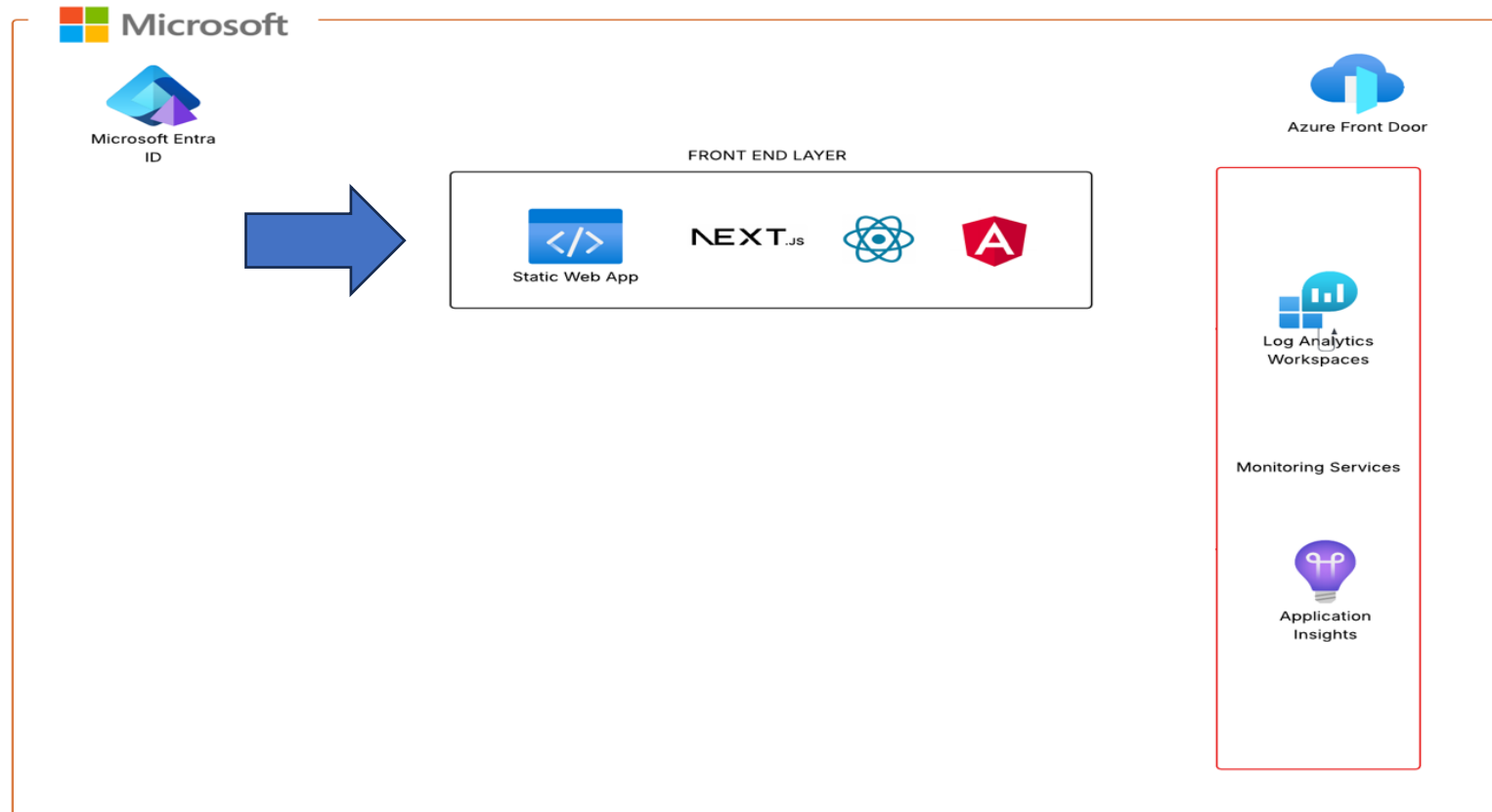
Add filter

Subscription name ↑↓	Subscription ID ↑↓	My role ↑↓	Current cost	Secure Score ↑↓
Azure subscription 1	1d4e325a-fb7c-4b3b-b91c-ee44ee2e8e2c	Owner	0.00	-
Subscription 2	7047f447-0d6a-4c86-86a1-38ab1955c0d3	Owner	0.00	-

Azure Subscriptions; (MUST BE SETUP)

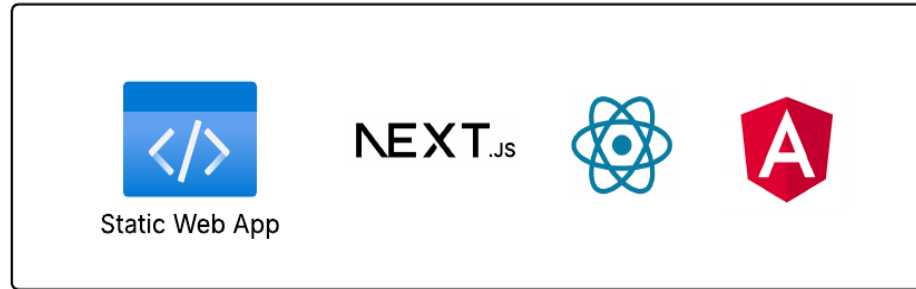
- Logical Container for all the Azure Services use by the organization.
- Each Subscription can have manage RBAC.

Microsoft: Front-end Solution Layer



Microsoft: Front-end Layer

FRONT END LAYER



Front End

- User Interface Layer for Web Application.
- Forms / Views / Pages / Search Bar.

Building Block:

- HTML / JavaScript / CSS
- NEXT.JS
- REACT
- Angular

Azure Services

- Azure Static Web App

Definition: Static Web App (Resource)

Microsoft Azure

Search resources, services, and docs (G+)

Azure services

Create a resource

Subscriptions

Static Web Apps

Static Web Apps

+ Create View

Storage accounts

SQL databases

Azure Cosmos DB

Resources

Recent Favorite

Name	Type	Last Viewed
Subscription 2	Subscription	4 minutes ago
Azure subscription 1	Subscription	5 minutes ago

Creation: Static Web App

Create Static Web App ...

Basics Deployment configuration Advanced Tags Review + create

App Service Static Web Apps is a streamlined, highly efficient solution to take your static app from source code to global high availability. Pre-rendered content is distributed globally with no web servers required. [Learn more](#) 

Project Details

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

Subscription * 

Azure subscription B2C



Resource Group * 

PAI_App_Demo



[Create new](#)

Hosting region

Static Web Apps distributes your app's static assets globally. Configure regional features in [Advanced](#)

Regions

Global

Static Web App details

Name *

Enter a name for your Static Web App

Hosting plan

The hosting plan dictates your bandwidth, custom domain, storage, and other available features. [Compare plans](#)

Plan type

☐ Free: For hobby or personal projects

☒ Standard: For general purpose production apps

Deployment details

Definition: Static Web App

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

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PAI ZONE (PAIZ.ONE)

Home >

activityreport
Static Web App

✦ ☆ ...

✕

Search

View app in browser Refresh Delete Manage deployment token Send us your feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Resource visualizer

Settings

Monitoring

Metrics

Automation

CLI / PS

Tasks

Export template

Help

Resource group (... : [PAI App Demo](#)

Subscription (move) : [Azure subscription B2C](#)

Subscription ID : 1fb05994-ac71-4d33-9b75-b9bdc248152e

Location : Global

Sku : Free

Tags (edit) : [Add tags](#)

URL : <https://nice-stone-0569ac90f.3.azurestaticapps.net>

Source : [master \(GitHub\)](#)

Deployment history : [GitHub Action runs](#)

View workflow : [azure-static-web-apps-nice-stone-0569ac90f.yml](#)

Get started

Monitoring

Deployment history



View your application

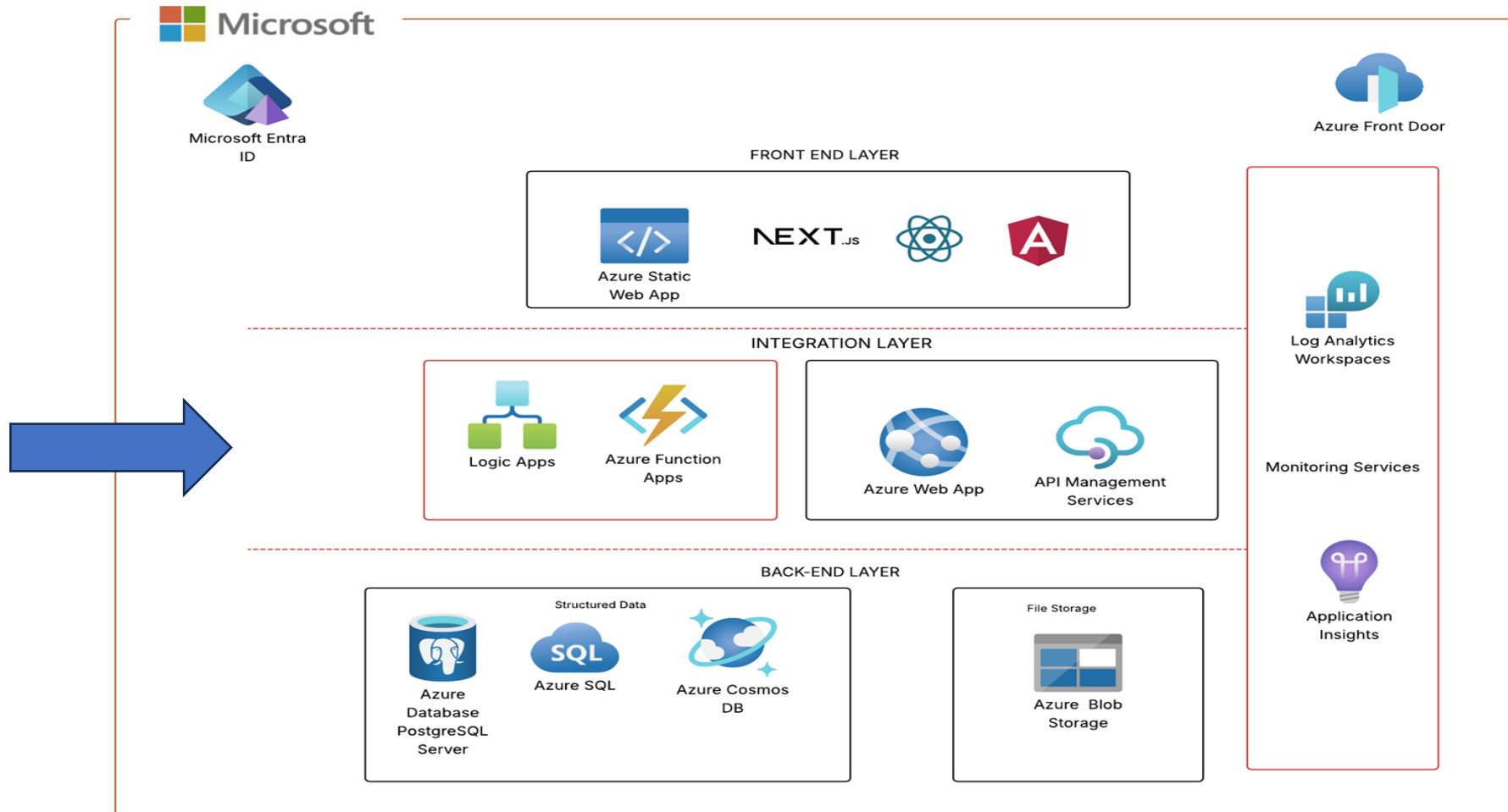
Status : Ready Environment : Production Domain : <https://nice-stone-0569ac90f.3.azurestaticapps.net> Hosting plan : Free

Visit your site

Prepare for production (0/3 completed)

Integration Layer

Microsoft: Integration Layer



Integration layer

- **Azure Functions**
- **Logic Apps**
- **API Management Services**
- **Azure Web Apps**

Integration Layer

- Connection between front and data later.
- API Management – provides backend services. CRUD Operations (Create, Read, Update Delete).

Building Block:

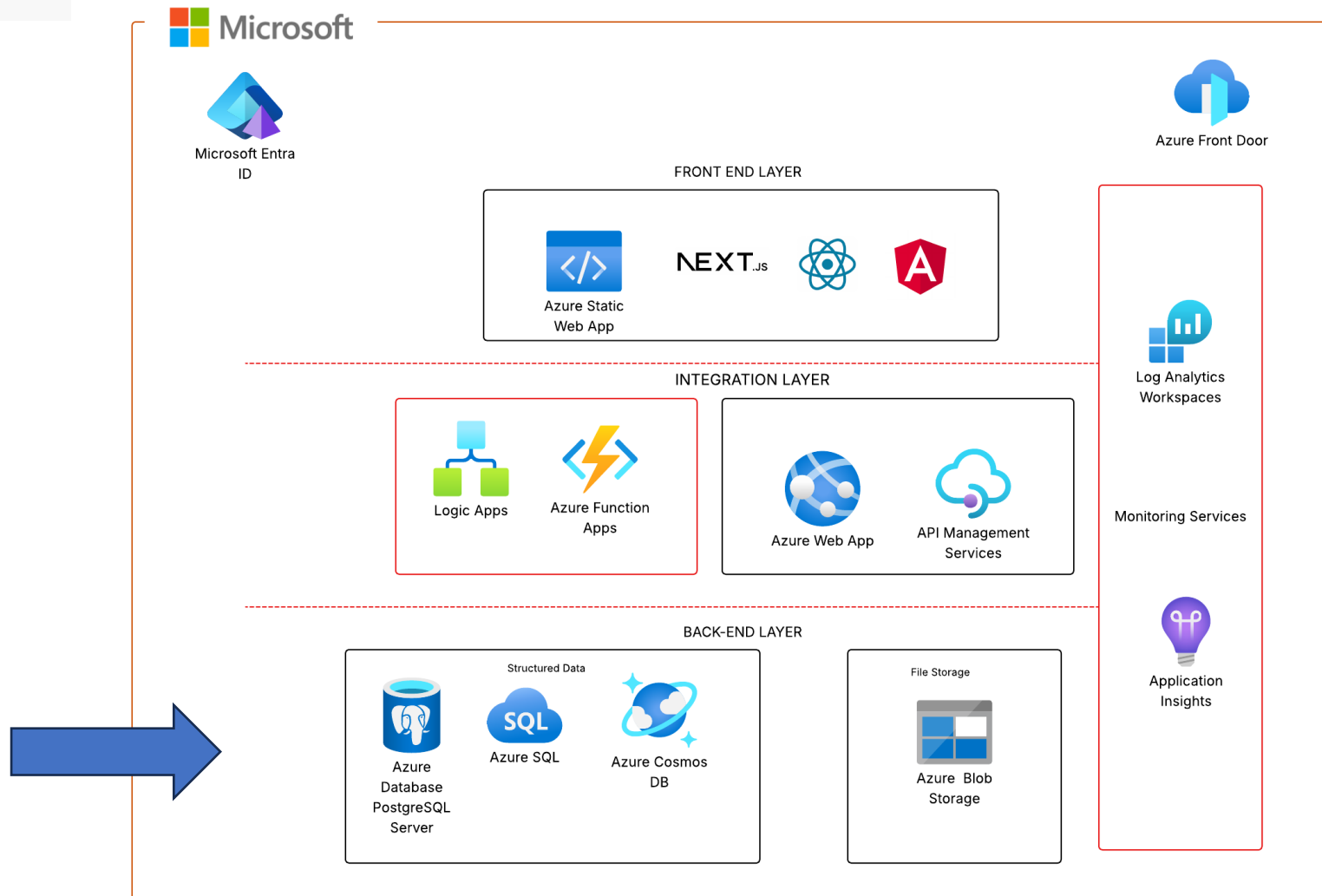
- Azure Functions
- APIM – Management services
- Logic Apps

Both (Integration/Backend)

- Azure Web Apps. – more complex applications (Node.JS, .Net, Python)

Back-End Layer

Microsoft: Data Layer



Back-end layer

Structured Data

- **Azure SQL**
- **PostgreSQL**
- **Cosmos DB**

Un-Structured Data

- **Azure Blob Storage**

Azure SQL / PostgreSQL

- Supports auto scale, geo-replication
- Azure private endpoints and Microsoft Entra ID, for security.
- White-list of specific IP for access

Cosmos DB

- Globally distributed, ultra-low read/write latency for users
- Multiple read replica for failover and high availability
- Elastic Instant Scalability for high storage data

Azure Blob Storage

- Supports Versioning ,Cost Optimization, tiers (Hot, Cool, Archive)
- Private endpoint, Immutable storage
- SaS security (Shared Access Signature)

Monitoring

Monitoring



Azure Front Door

Azure Front Door

- Global HTTP/HTTPS based load balancing.
- Built in CDN for accelerating static content.
- DDoS Protection



Log Analytics
Workspaces

Log Analytics Workspace:

- Centralized Log management
- log storage and analytics platform
- Powerful Queries with KQL (Kusto Query Language)
- Rich visualizations and dashboards, built-in templates, or custom designs



Application
Insights

Application Insights

- Application Performance Monitoring
- Custom metrics and Telemetry
- Alerts and Notifications
- Create interactive workbooks to visualize important app metrics, performance, and user activity across teams.

Demo Static-Web App

Demo

Point Alliance

Explore sample UI created with react using latest technology stack with Azure.



Activity Trip report

A full-featured online activity report tracking. Built with modern web technologies for optimal performance.

React

Node.js

Cosmos DB

Stripe

[View Project](#) 



Document dashboard

A document dashboard generated and operated by tags for categorical use.

Next.js

Tailwind CSS

Azure Blob storage

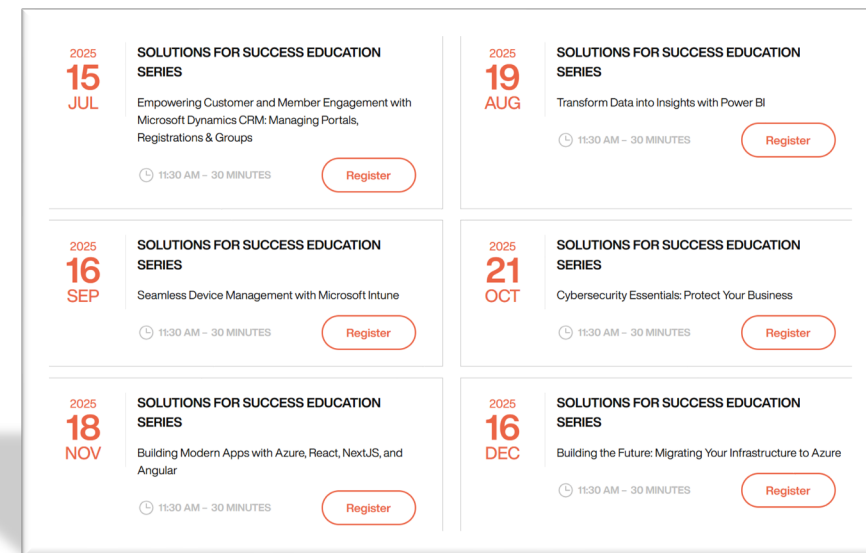
Dynamics 365

[View Project](#) 

Upcoming Events

Upcoming S4S Webinars

- Third Tuesday of Each Month
- pointalliance.com/events



The image displays a grid of six upcoming webinars, each with a date, title, description, duration, and a register button. The webinars are part of the 'Solutions for Success Education Series'.

Date	Topic	Description	Duration	Register
2025 15 JUL	SOLUTIONS FOR SUCCESS EDUCATION SERIES	Empowering Customer and Member Engagement with Microsoft Dynamics CRM: Managing Portals, Registrations & Groups	11:30 AM - 30 MINUTES	Register
2025 16 SEP	SOLUTIONS FOR SUCCESS EDUCATION SERIES	Seamless Device Management with Microsoft Intune	11:30 AM - 30 MINUTES	Register
2025 18 NOV	SOLUTIONS FOR SUCCESS EDUCATION SERIES	Building Modern Apps with Azure, React, NextJS, and Angular	11:30 AM - 30 MINUTES	Register
2025 19 AUG	SOLUTIONS FOR SUCCESS EDUCATION SERIES	Transform Data into Insights with Power BI	11:30 AM - 30 MINUTES	Register
2025 21 OCT	SOLUTIONS FOR SUCCESS EDUCATION SERIES	Cybersecurity Essentials: Protect Your Business	11:30 AM - 30 MINUTES	Register
2025 16 DEC	SOLUTIONS FOR SUCCESS EDUCATION SERIES	Building the Future: Migrating Your Infrastructure to Azure	11:30 AM - 30 MINUTES	Register

Leave us a review

