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Eldert Grootenboer



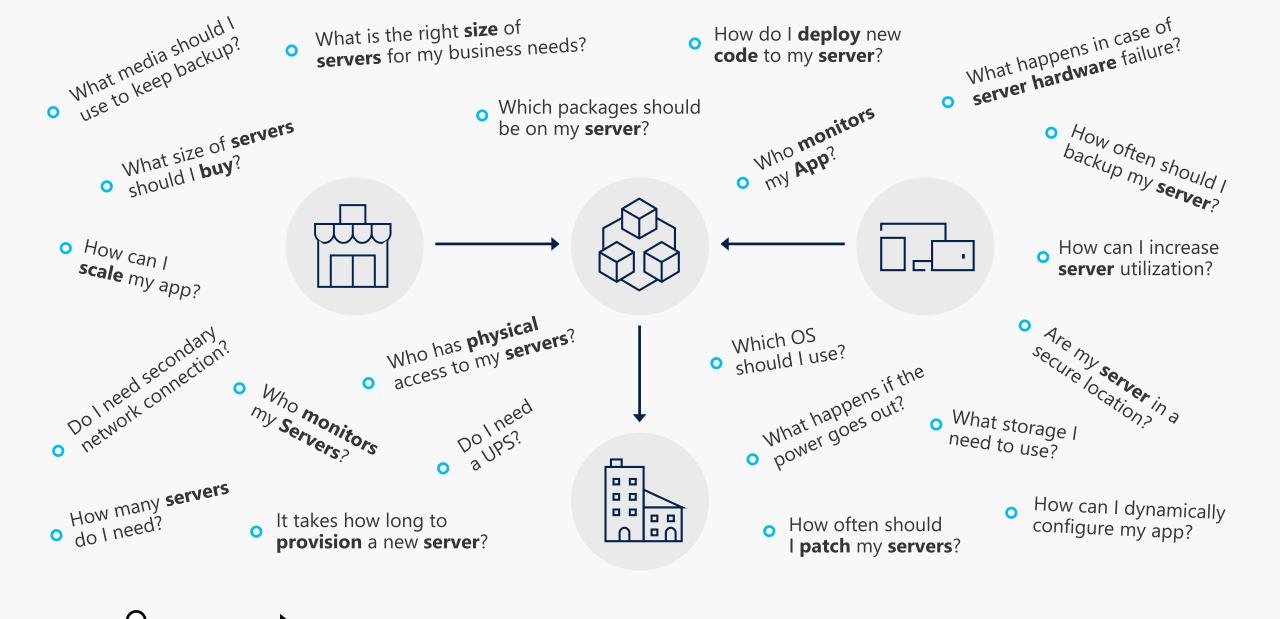




@egrootenboer

Setting up...





On-Premises

What is the right **size** of **servers** for my business needs?

How can I increase **server** utilization?

How many **servers** do I need?

How can I **scale** my app?



How often should I **patch** my **servers**?

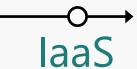
How often should I backup my **server**?

Which packages should be on my **server**?

How do I **deploy** new **code** to my **server**?

Which OS should I use?

Who **monitors** my App?



What is the right **tier** for my business needs?

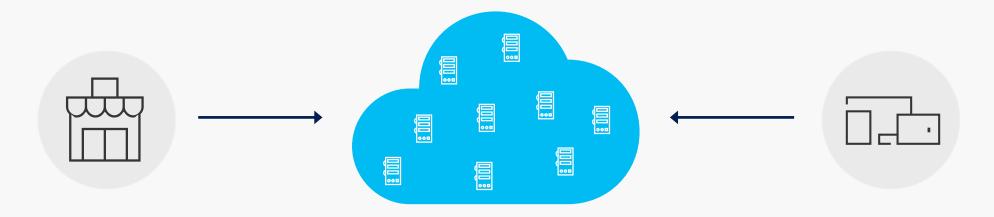
How can I increase **compute** utilization?

How many **instances** do I need?

How can I **scale** my app?

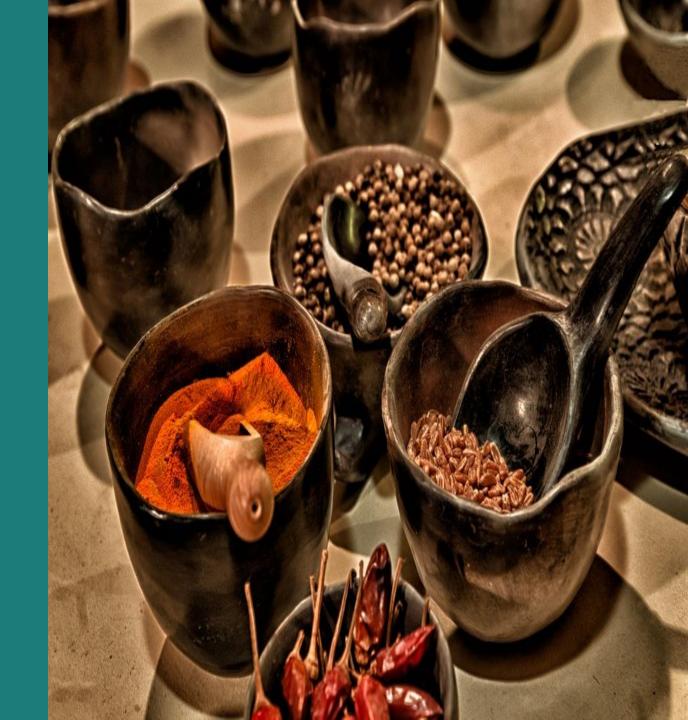


How do I **architect** my app?



Serverless, the platform for next gen apps

Choosing the right components...

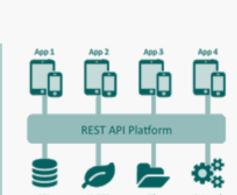


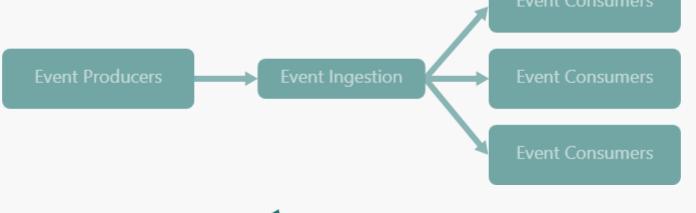
Architecture Principles

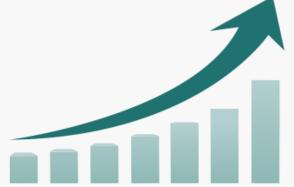












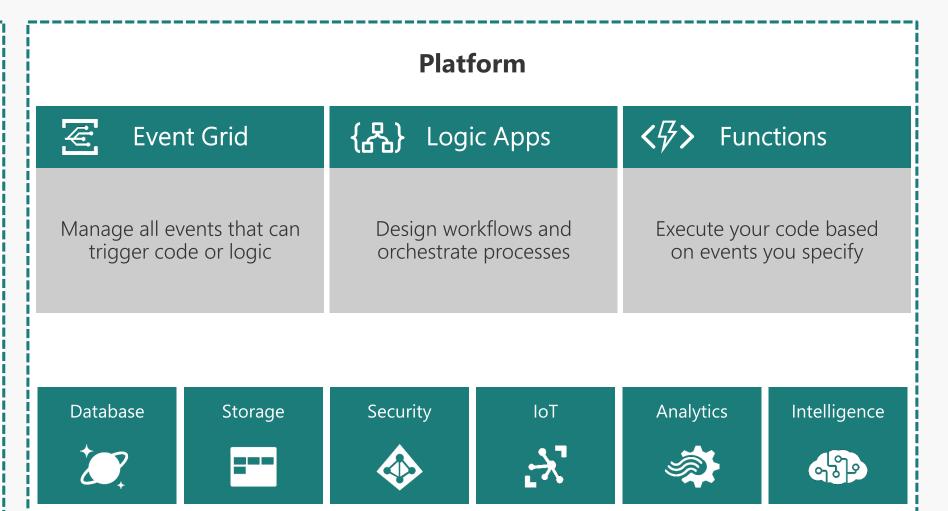






Azure Components

Development </> IDE support Integrated DevOps Local Development Monitoring Visual Debug History



HockeyApp

Log Analytics

Management

Application

Insights

Developer Tools

and SDKs

Backup

Xamarin

Site Recovery

Storage

Explorer

Visual Studio

Team Services

Monitoring + Management

Microsoft

Azure portal

Azure DevTest

Azure Policy

Labs

Application

Azure Monitor

Insights

Better Together

Limitless Possibilities

Let's get cooking!



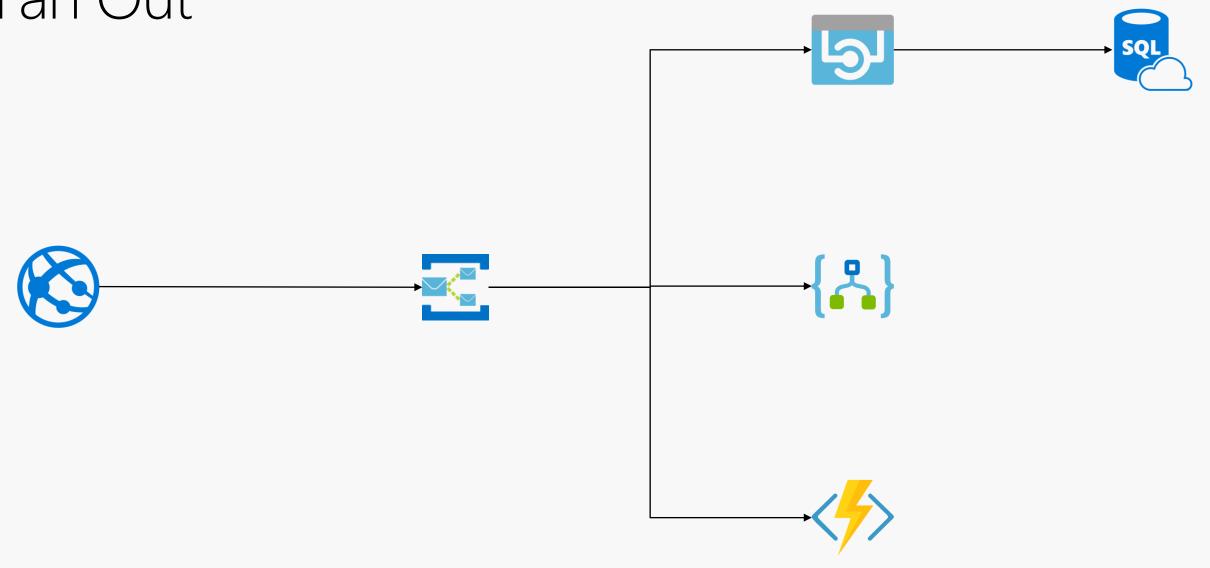
Let's get cooking

- Customer stories
- Client wishes
- Proposed solution
- Alternatives

Fan Out

- Routing
- Guaranteed delivery
- Single or multiple destinations

Fan Out



Fan Out

Service Bus Topics

- Enterprise messaging
- Advanced filtering
- Allows batching, duplicate detection, sessions, etc.

Event Grid

- Event driven
- High throughput
- Serverless





Microservices

- Scalability
- Insights
- Programming language

Microservices



Microservices

Azure Functions

- Serverless
- Event driven
- Scalable

Azure Kubernetes Service

- Container based
- Full language stack available
- Full control





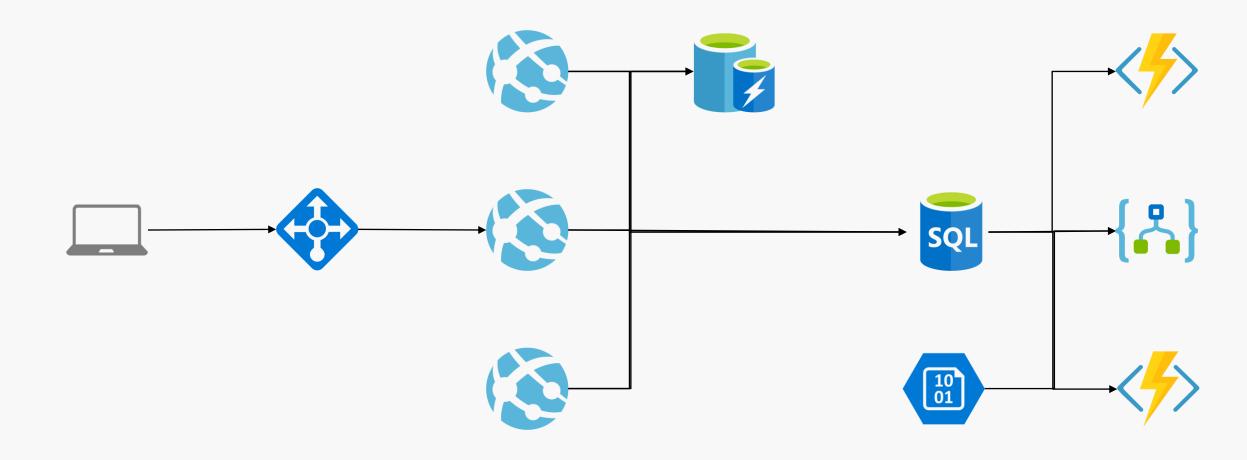
Cloud native?



Ecommerce

- Scalable
- Around the clock
- Peak loads

Ecommerce



Ecommerce

Traffic Manager

- DNS level traffic distribution
- Load balancing and prioritization
- Geo redirection

Front Door

- SSL offload and application acceleration at the edge
- Global HTTP load balancing with instant failover
- Application firewall and DDoS protection

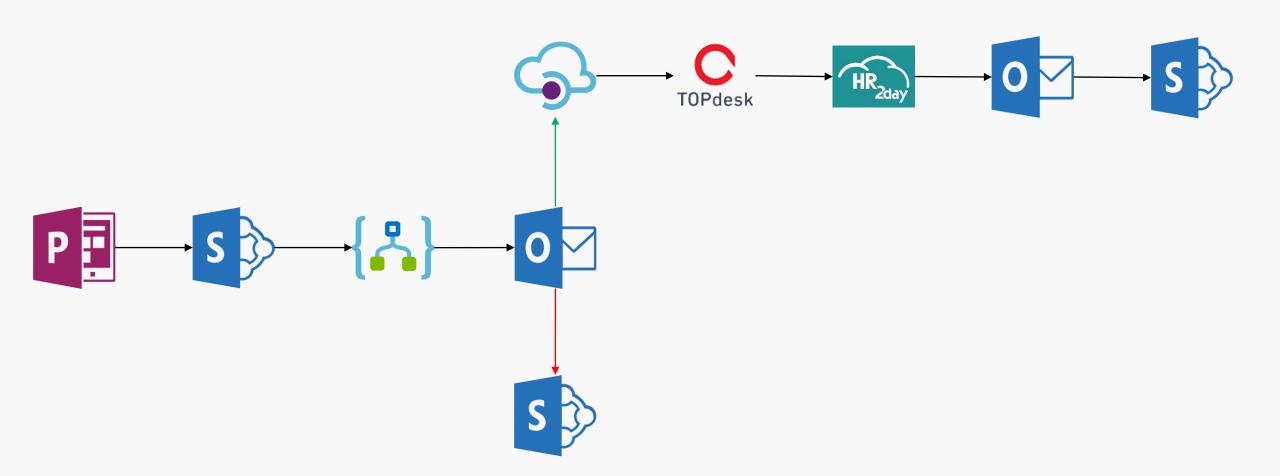




Workflow

- Easy but powerful design
- SaaS and PaaS connectors
- Monitoring and logging

Workflow



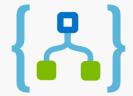
Workflow

Logic Apps

- Over 200 connectors
- Visual designer
- Rich monitoring and management

Durable Functions

- Execute code in several languages
- Portable runtime
- Serverless or App Service
 Plan





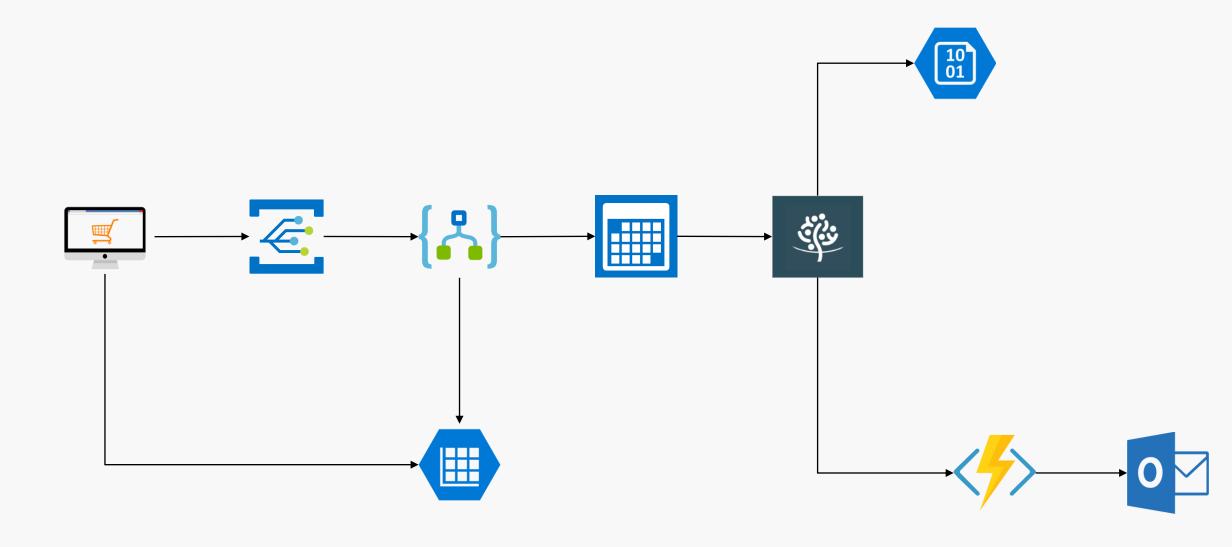
DevOps?



Eventing

- No polling
- Scalability
- Stability

Eventing



Eventing

Event Grid

- Event driven
- Auto-retry, dead lettering
- Cross cloud

Event Hubs

- Streaming, real-time and batch processing
- Kafka support
- Capture and auto-inflate

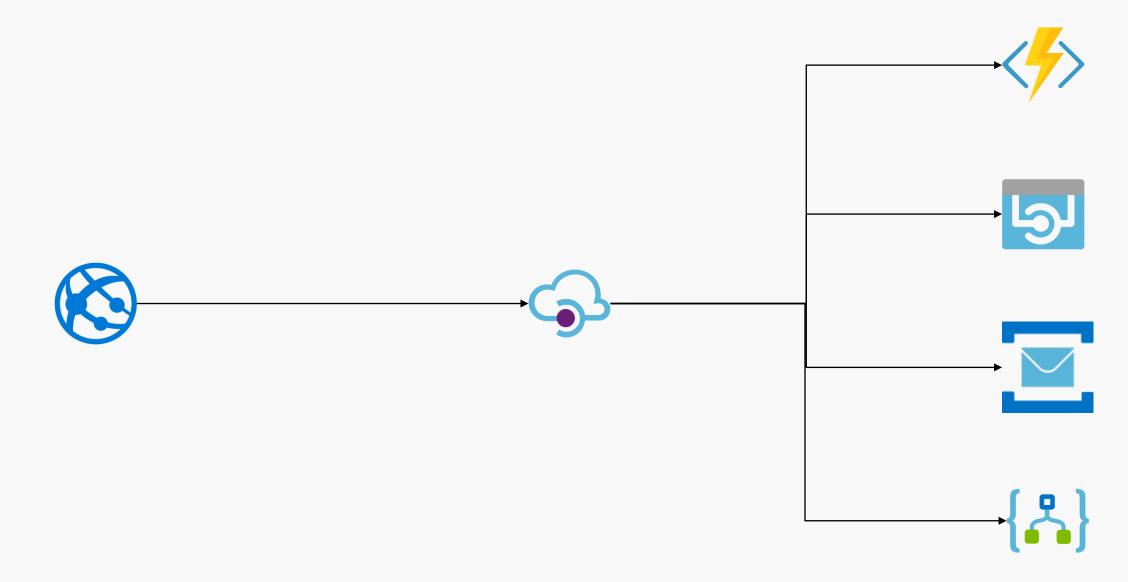




Service Repository

- Abstract backend services
- Near real-time insights
- Smarter services

Service Repository



Service Repository

API Management

- Policies
- Security
- Developer portal

Azure Functions

- Routing
- Lightweight
- Cost effective





Almost done...



Key Takeaways

Cloud computing	Focus on value
Cost Efficient	Keep pricing in mind when choosing components
Better Together	Combine services to create powerful scenarios

Thank You

- @egrootenboer
- eldert@eldert.net
- https://blog.eldert.net/

Track 1

- 15:35 **–** 16:20
- Skynet Is Talking -Microsoft Bot Framework
- Kris van der Mast

Track 2

- 15:35 **–** 16:20
- Enter The Matrix: Securing Azure's Assets
- Mike Martin