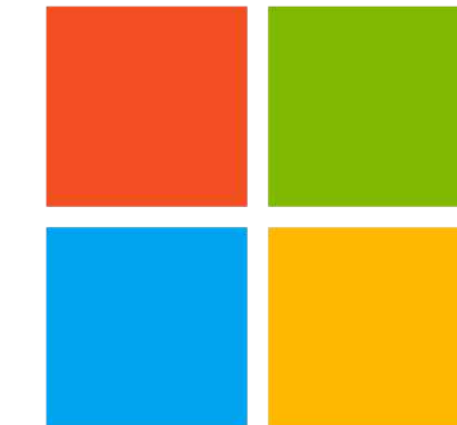


Macoun

The Ultimate Parse Survival Guide

Manuela Rink

Über mich



iOS Developer / Architect

Technical Evangelist

Ablauf



Kapitel 1

Why a Survival Guide

Parse dankt ab!

Kapitel 3

Off to new shores

Portierung und Migration

Kapitel 2

We proudly present

Die Alternativen

Das Finale

Taking over the world

Dynamische Skalierung

Kapitel I

Why a Survival Guide

Parse dankt ab!



Parse - Was ist es?

(es leuchtet blau)

- mBaaS
- einfach und unkompliziert
- One-Stop-Shop
- (im Vergleich) kostengünstig

Parse - Was ist es?

Funktionsumfang

Client

- Mobile SDKs
- Registrierung und Login
- (Offline) Daten-Synchronisierung
- Push Notifications
- Eigene API Endpunkte

Server

- User Verwaltung
- Installationsmanagement
- Tabellen & APIs (Cloud Code)
- Cross Platform Push Notifications
- Data Operation Hooks



Core

Browser

Create a class

Installation

Role

Session

User

BlackList

Friends

Html

IAP

MyUsers

Sounds

Cloud Code

Webhooks

Jobs

Logs

Config

API Console



Push



Analytics



App Settings

objectId	String	GCMSenderId	String	deviceTokenLastMod...	deviceToken	String	localeIdentifier	S...	badge	Number	parseVersion	String	users	Array
...	MMWNcW	(undefined)		(undefined)	(undefined)		en-US		0		1.14.2		["23cnAe2YP	
...	kEnsWE	(undefined)		(undefined)	(undefined)		en-US		0		1.14.2		["23cnAe2YP	
...	NfeH7G	(undefined)		(undefined)	be2cb3a98061e9a0d6...		en-DE		0		1.14.2		["LTWmws5IV	
...	xETWJM	(undefined)		(undefined)	(undefined)		en-US		0		1.14.2		["23cnAe2YP	
...	sAWXi4	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["LTWmws5IV	
...	ryHQc8	(undefined)		1457129622000	APA91bFRFLeUXZNIIJ...		(undefined)		(undefined)		1.8.2		["qiU5wMmKo	
...	fMOYu8	(undefined)		(undefined)	5ba7d009913d14defd...		(undefined)		2		1.6.0		["LTWmws5IV	
...	Qsowmr	(undefined)		(undefined)	a13caf1de8cbe7c4c1...		(undefined)		1		1.6.0		["dfv8aZNaD	
...	WPm4ZW	(undefined)		(undefined)	6a755fce96cb3c4ca5...		(undefined)		1		1.6.0		["dfv8aZNaD	
...	FNx2KU	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["lXxMy55B7	
...	tBHf13	(undefined)		(undefined)	4806313c6f6cfb5302...		(undefined)		1		1.6.0		["TDZiLopbU	
...	HmNyfg	(undefined)		(undefined)	b647a91494d7bf80ca...		(undefined)		1		1.6.0		["lXxMy55B7	
...	w39aLx	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["zP3RJNm63	
...	iuJ0T5	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["zP3RJNm63	
...	xfDnSp	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["zP3RJNm63	
...	iL4T0Z	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["zP3RJNm63	
...	SQaA5x	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["zP3RJNm63	
...	QNwJas	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["phctnAUqx	
...	7uEiSf	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["phctnAUqx	
...	x9oxF7	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		["phctnAUqx	
...	EuCRLD	(undefined)		(undefined)	(undefined)		(undefined)		1		1.6.0		(undefined)	

kthxbye!

Anfang Januar 2016 Mail von Parse

kthxbye!



Anfang Januar 2016 Mail von Parse

kthxbye!

“[...] difficult announcement to make [...]”

kthxbye!



“[...] difficult announcement to make [...]”

kthxbye!

“[...] Parse will be fully retired after a year-long period [...]”

kthxbye!

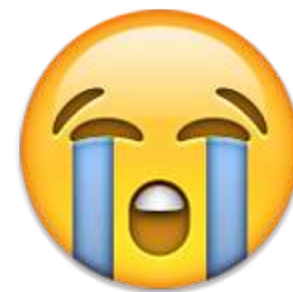


“[...] Parse will be fully retired after a year-long period [...]”

kthxbye!

“[...] releasing a database migration tool [...]”
“[...] releasing the open source Parse Server [...]”

kthxbye!



“[...] releasing a database migration tool [...]”
“[...] releasing the open source Parse Server [...]”

kthxbye!

kthxbye!



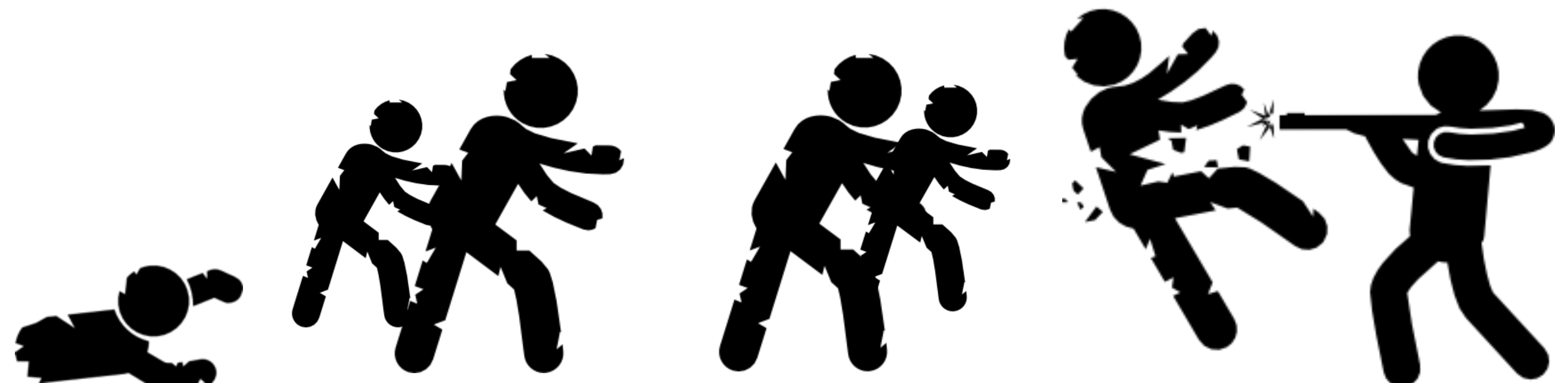
Hier können wir nicht bleiben...

Was nun?

Kapitel 2

We proudly present

Die Alternativen



Parse

Goes open source

<https://parseplatform.github.io/>










Parse Server

The open source version of the Parse backend, and related projects.

parse-server Parse-compatible API server module for Node/Express	JS	★ 10783	📄 2809
parse-server-example Example server using Express and the parse-server module.	JS	★ 1033	📄 2661
parse-server-simple-mailgun-adapter Used to send Parse Server password reset and email verific...	JS	★ 19	📄 28
parse-server-modules Community Organization for non-core Parse Server modules and adapters			

SDKs and Libraries

The open source versions of our SDKs with relevant links to learn more.

iOS + OS X + tvOS ★ 2145 📄 572 	Android ★ 1162 📄 414 	JavaScript ★ 422 📄 244 
Guides ▶	Guide ▶	Guide ▶
API Reference ▶	API Reference ▶	API Reference ▶
Latest Downloads ▶	Latest Downloads ▶	Latest Downloads ▶
Modules ▶	Modules ▶	Modules ▶
View on GitHub	View on GitHub	View on GitHub
.NET + Xamarin ★ 126 📄 144 	Unity ★ 126 📄 144 	PHP ★ 681 📄 307 
Guide ▶	Guide ▶	Guide ▶
API Reference ▶	API Reference ▶	API Reference ▶
Latest Downloads ▶	Latest Downloads ▶	Latest Downloads ▶
View on GitHub	View on GitHub	View on GitHub
Arduino ★ 23 📄 64 	Embedded C ★ 209 📄 112 	Cloud Code ★ 252 📄 113 



- Teils Kombination von Services notwendig
- Komplexe Konfiguration
- Kostenintensiv bei produktiver Nutzung
- Teils mangelhafte mobile SDKs

Stabiles Business?

seit 29. März 2016

“Parse Server on managed Azure services”

im Azure Marketplace

- Parse Server
Implementierung speziell für Azure App Services
- Azure Storage
File/Blob/Table/Queue Speicher
- DocumentDB
NoSQL Datenbank
- Azure Notification Hub
Push Notifications
- Parse Dashboard
Daten/User/Installation/Push Verwaltung



Microsoft Azure

... und mittlerweile funktioniert's auch



Kapitel 3

Off to new shores


Portierung und Migration



Schritt 1

Provisionierung

Solution Template aus Azure Marketplace



Parse Server on managed Azure services

Microsoft







This template deploys Parse Server backed by fully-managed and supported Azure services. These services support the migration [guide](#) and tools provided by Parse including database migration to a fully-managed database.

Parse Server is a cloud-based mobile application platform that enables users to add a scalable backend for full-featured mobile applications on Windows, iOS, Android and a variety of cross-platform and hybrid technologies.

This template deploys the following Azure services:

- Parse Server powered by Azure App Service
- File adapter powered by Azure Storage
- NoSQL data adapter powered by Azure DocumentDB
- Push notifications powered by Azure Notification Hubs
- UI-based management usign the Parse Dashboard

When deploying this template, the lowest cost deployment options within each Azure service will be used. You may scale up to higher performance options by adjusting the scaling options after deployment. The minimum cost of the service is approximately \$75/mo. For more information on the cost of individual Azure services, visit the [pricing page](#).



PUBLISHER	Microsoft
USEFUL LINKS	Azure App Service Azure DocumentDB Azure Notification Hubs Azure Storage Parse Server Azure Storage

Parse Server

on managed Azure services

* Parse Server Name

* Subscription

Microsoft Azure Internal Consumption

* Resource group ⓘ

☒ Create new ☐ Use existing

myparsemigration

* Location

North Europe

Parse App Id






v05c21ws16QuATF8uHdgRUD5AT6pk52zWEI...


Parse Master Key

f3uSWErHMwNbWNGpBQQokox7Dwm1y9geV

Microsoft.ParseServer

Deployment

 Delete  Cancel  Refresh  Redeploy  View template

 Deploying

Summary

DEPLOYMENT DATE

9/13/2016, 12:20:16 PM

STATUS

Deploying

DURATION

1 second

RESOURCE GROUP

[ParseMigration](#)

RELATED

[Events](#)

TEMPLATE LINK

<https://gallery.azure.com/artifact/20151001/Microsoft...>

Outputs

NO DEPLOYMENT OUTPUTS

Inputs

NAME

parsemigration

LOCATION

northeurope

APPID

BD0E1D5F-FE44-B0B1-FF16-67A512F9CE00

MASTERKEY

76AC9BAC-F074-9B68-FF29-EC95CA1E8F00

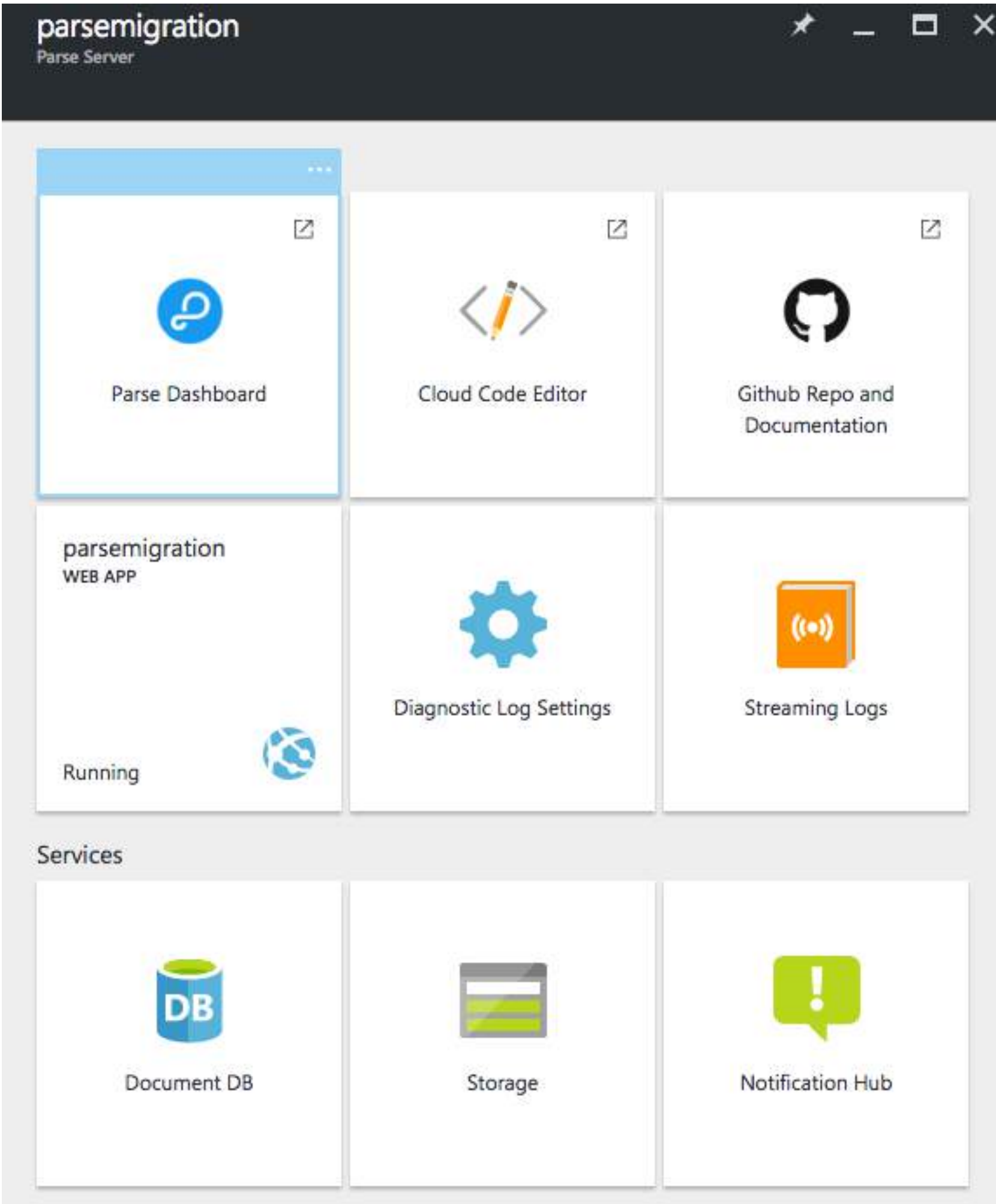
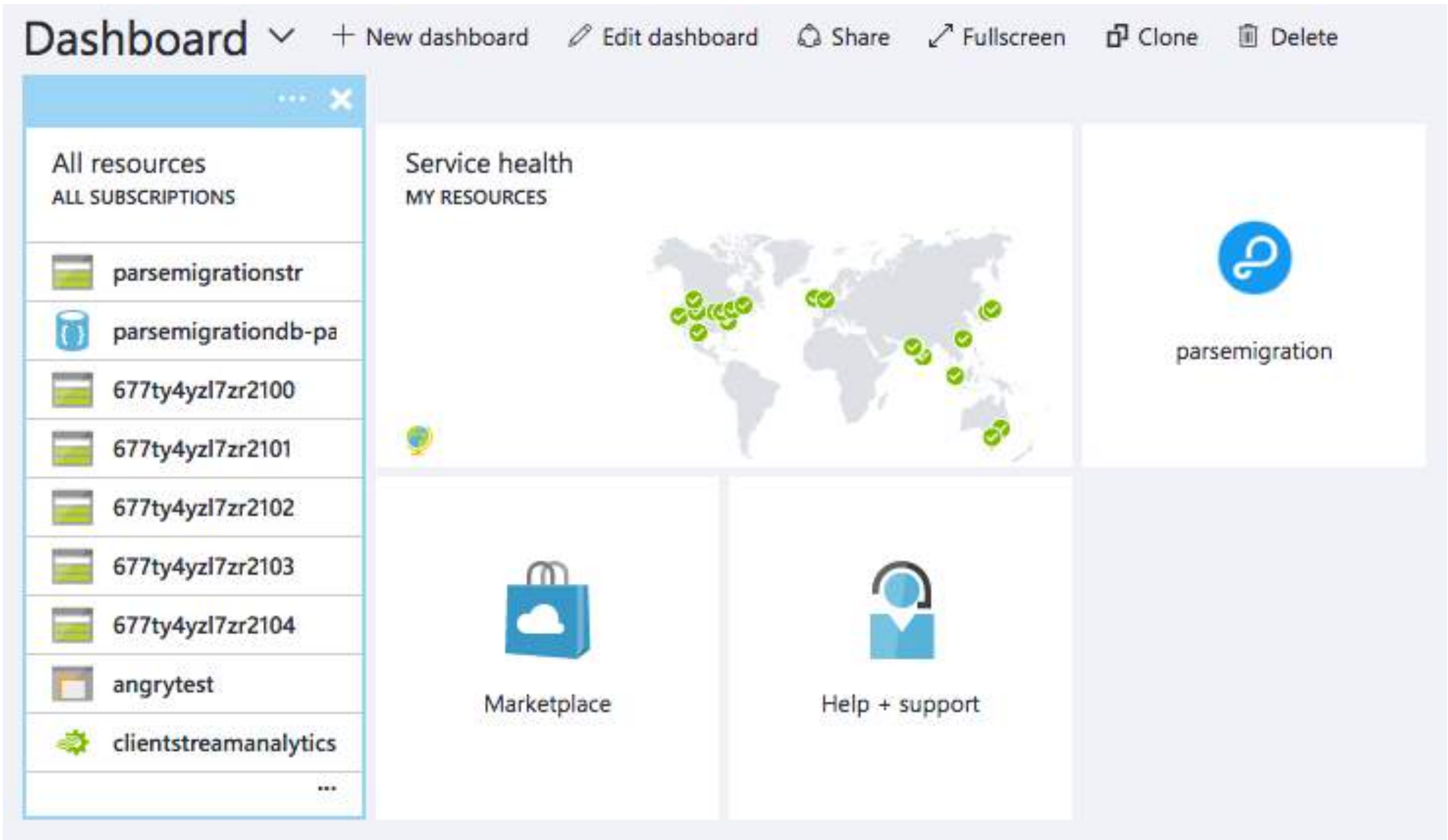
Operation details

	RESOURCE	TYPE	STATUS	TIMESTAMP
🔍	parsemigration/web	Microsoft.Web/site...	Created	2016-09-13T10:20:3...
✅	parsemigration/Mic...	Microsoft.Web/site...	Created	2016-09-13T10:20:3...
✅	parsemigration	Microsoft.Web/sites	OK	2016-09-13T10:20:2...
🔍	parsemigration-ns	Microsoft.Notificati...	OK	2016-09-13T10:20:2...
🔍	parsemigrationstr	Microsoft.Storage/s...	Accepted	2016-09-13T10:20:2...
✅	parsemigration-asp	Microsoft.Web/serv...	OK	2016-09-13T10:20:2...
🔍	parsemigrationdb-p...	Microsoft.Documen...	OK	2016-09-13T10:20:3...

Schritt 2

Parse Server

Dashboard & Cloud Code



Schritt 3

Datenbank Migration

Parse Classes nach Azure DocumentDB (MongoDB) migrieren

Core		
Browser		Create a class
Installation	25	
Role	0	
Session	5	
User	16	
BlackList	25	
Friends	0	
Html	6	
IAP	4	
MyUsers	0	
Sounds	28	

Parse.com Dashboard

Schritt 3

Datenbank Migration

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Sounds	28	

Parse.com Dashboard

CURRENT PROGRESS(GN528WEqjW)

Copy Snapshot
Migrating existing data.

Sync
Migrating any new data post snapshot.

Verify
Preview your new database.

Rows Migrated: 225 Classes Migrated: 6 Speed: 12 rows/s ETA: less than a minute

We are copying a snapshot of your Parse hosted database into your MongoDB instance at `mongodb://myparsemigrationdb-parse:*****@myparsemigrationdb-parse.documents.azure.com:10250/parse?ssl=true`.

This could take a while, depending on the amount of data. During this phase, your app continues to read and write to the Parse hosted database.

Stop the migration

Show more details

Finalize

Schritt 3

Datenbank Migration

Parse Classes nach Azure DocumentDB (MongoDB) migrieren

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Installation		25
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Parse Server
Dashboard on Azure

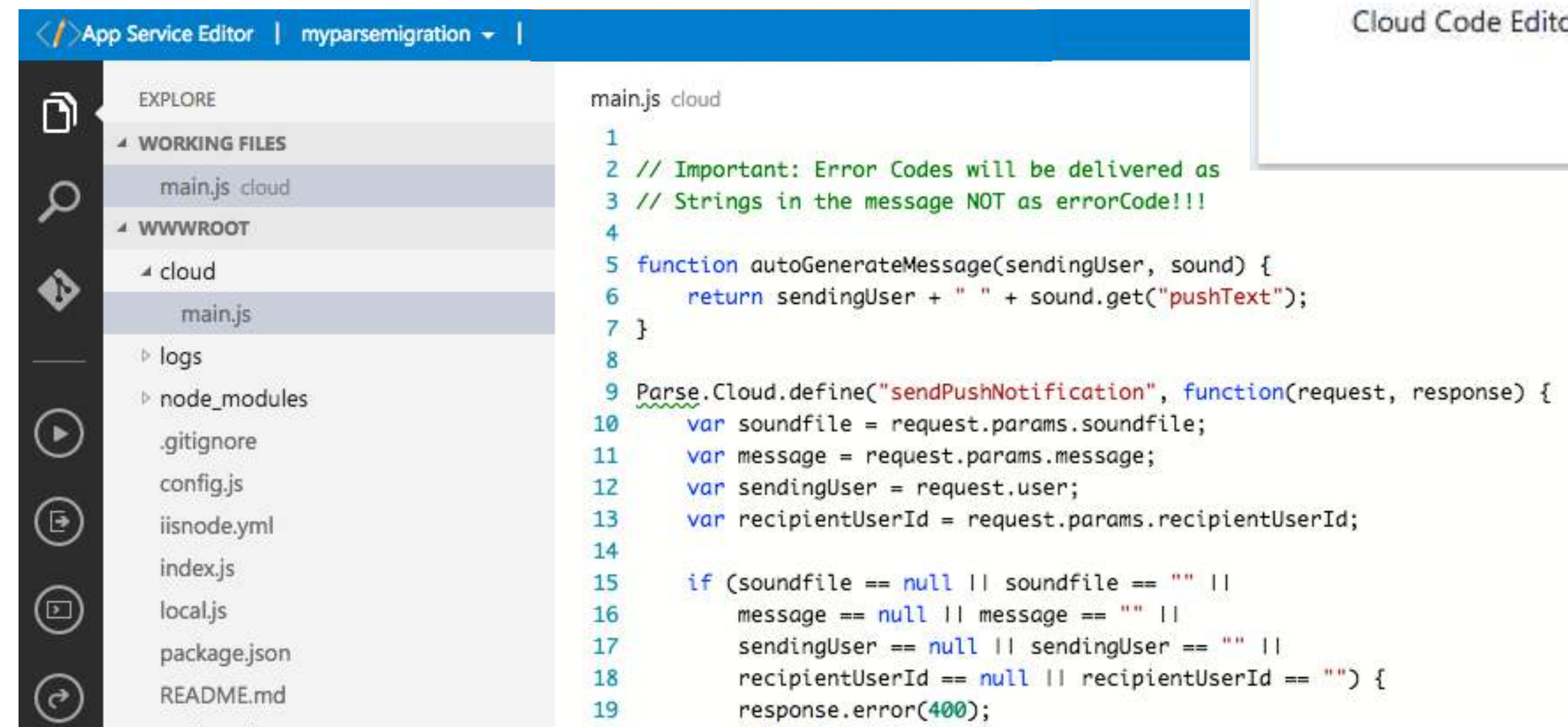
Schritt 4

Manuelle Cloud Code Migration

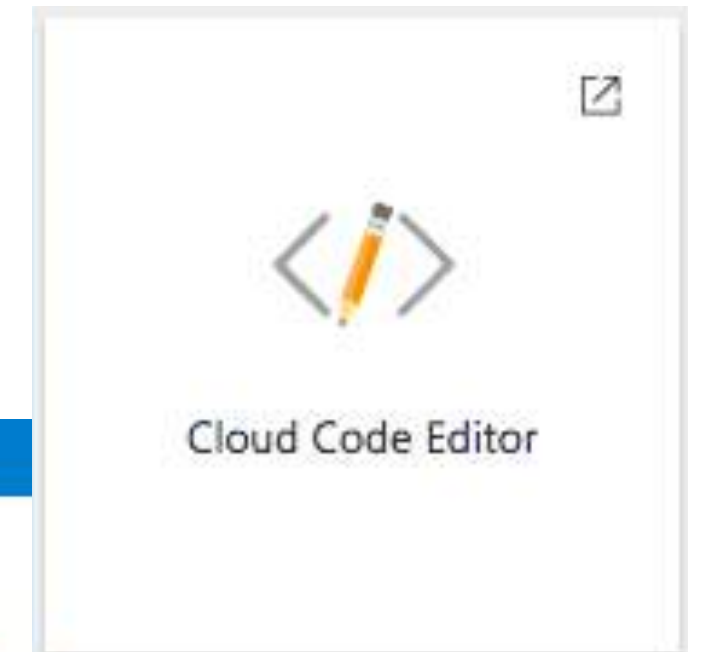
JS Code in Azure Parse Server Instanz kopieren



Parse.com Cloud Code console



Visual Studio Online - Monaco console



Schritt 5

Push Notifications

Notification Hub: Konfiguration und Testing

myparsemigration-hub

Notification Hub

Settings

Manage in full ...

Test Send

Delete

Essentials

Subscription Name

Microsoft Azure Internal Consumption

Subscription Id

3d24ddd6-7960-4073-aa3b-45cb236e0159

Location

North Europe

Name

myparsemigration-hub

Namespace

myparsemigration-ns

Status

Active

Pricing Tier

Basic

All settings

Settings

Settings

Push notification services

1 TAGS

TroubleShooting

Test Send

Settings

myparsemigration-hub

Filter settings

GENERAL

Properties

Notification Services

Access Policies

Roles

Users

Tags

Pricing Tier (Basic)

Push notification servic...

myparsemigration-hub

Filter settings

GENERAL

Apple (APNS)

Google (GCM)

Windows (WNS)

Windows Phone (MPNS)

Amazon (ADM)

Baidu (Android China)

Apple (APNS)

myparsemigration-hub

Upload Certific...

Delete Certifica...

Certificate Thumbprint

57CB2A9F2A0A3149476F7F9F9243F6AFC;

Schritt 5

Push Notifications

Notification Hub: Konfiguration und Testing

myparsemigration-hub

Notification Hub

Settings

Manage in full ...

Test Send

Delete

Essentials

Subscription Name

Microsoft Azure Internal Consumption

Subscription Id

3d24ddd6-7960-4073-aa3b-45cb236e0159

Location

North Europe

Name

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Namespace

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Status

Active

Pricing Tier

Basic

All settings

Settings

Settings

Push notification services

1 TAGS

TroubleShooting

Test Send

Settings

Filter settings

GENERAL

Properties

Notification Services

Access Policies

Roles

Users

Tags

Pricing Tier (Basic)

Push notification servic...

Filter settings

GENERAL

Apple (APNS)

Google (GCM)

Windows (WNS)

Windows Phone (MPNS)

Amazon (ADM)

Baidu (Android China)

Apple (APNS)

Upload Certific...

Delete Certifica...

Certificate Thumbprint

57CB2A9F2A0A3149476F7F9F9243F6AFC;

Schritt 5

Push Notifications

Notification Hub: Konfiguration und Testing

myparsemigration-hub
Notification Hub

Settings Manage in full ... Test Send Delete

Essentials

Subscription Name: Microsoft Azure Internal Consumption
Subscription Id: d24ddd6-7960-4073-aa3b-45cb236e0159
Location: North Europe

Name: myparsemigration-hub
Namespace: myparsemigration-ns
Status: Active
Pricing Tier: Basic

Settings

Push notification services

1 TAGS

TroubleShooting

Test Send

Settings myparsemigration-hub

Filter settings

GENERAL

Properties

Push notification services

Policies

Users

Pricing tier (Basic)

Apple (APNS)

Windows (WNS)

Windows Phone (MPNS)

Amazon (ADM)

Baidu (Android China)

Apple (APNS) myparsemigration-hub

Upload Certificate... Delete Certificate...

Certificate Thumbprint ⓘ

57CB2A9F2A0A3149476F7F9F9243F6AFC

NUR Zertifikat als .p12
MIT Passwort exportieren

KEINEN Key hinzufügen

Zwischenstopp

Was fehlt noch?



Provisionierung von Server und Diensten



DB Migration



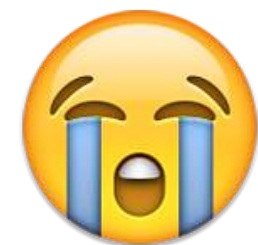
JavaScript Cloud Code Migration



Push Notification Konfiguration



Tweaks in Clientcode



... und im Servercode

Schritt 6

Clientseitige Codeanpassungen



Init gegen parse.com

```
/**
 * Sets the applicationId and clientKey of your application.
 *
 * @param applicationId The application id of your Parse application.
 * @param clientKey The client key of your Parse application.
 */
+ (void)setApplicationId:(NSString *)applicationId clientKey:(NSString *)clientKey;
```

Init gegen Azure Parse Server

```
/**
 * Sets the configuration to be used for the Parse SDK.
 *
 * @note Re-setting the configuration after having previously sent requests through the
 *
 * @param configuration The new configuration to set for the SDK.
 */
+ (void)initializeWithConfiguration:(ParseClientConfiguration *)configuration;
```

Konkrete Implementierung

```
[Parse initializeWithConfiguration:[ParseClientConfiguration configurationWithBlock:
^(id<ParseMutableClientConfiguration> configuration) {
    configuration.applicationId = @"<App ID goes here>";
    configuration.clientKey = @"<client key goes here>";
    configuration.server = @"https://yourAppName.azurewebsites.net/parse";
}]];
```


Schritt 7.1

Serverseitige Codeanpassungen

//OLD CODE – User can not be modified!

```
user.save(null, {
  success: function () {
    // Everything worked.
    // Returning the added user to the client.
    response.success(results[0]);
    return;
  },
  error: function (err) {
    // Something bad happened on save.
    response.error(500);
    console.log('error on adding user to list');
    return;
  }
});
```

//NEW CODE – FIX bzw.WORKAROUND

```
Parse.Object.saveAll([user], { useMasterKey: true }).then(
  function (object) {
    console.log('successfully added user to list');
    response.success(results[0]);
  },
  function (error) {
    console.log('error on adding user to list');
    response.error(500);
  }
);
```

Schritt 7.1

Serverseitige Codeanpassungen

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    response.error(500);
  }
)
```


Schritt 7.2

Serverseitige Codeanpassungen

//OLD PUSH CODE

```
Parse.Push.send({
  where: pushQuery,
  data: {
    isFriend: isFriendPush,
    senderId: sendingUser.id,
    senderName: sendingUser.get("username"),
    alert: message,
    sound: soundfile,
    soundId: soundId
  }
}).then(function () {
  response.success(200)
}, function (error) {
  response.error(error.message);
});
```

//NEW PUSH CODE

```
Parse.Push.send({
  where: pushQuery,
  data: {
    isFriend: isFriendPush,
    senderId: sendingUser.id,
    senderName: sendingUser.get("username"),
    alert: message,
    sound: soundfile,
    soundId: soundId
  }
},
{
  useMasterKey: true,
  success: function () {
    response.success(200)
  },
  error: function (error) {
    response.error(error.message);
  }
});
```

Schritt 7.2

Serverseitige Codeanpassungen

//OLD PUSH CODE

```
Parse.Push.send({
  where: pushQuery,
  data: {
    isFriend: isFriendPush,
    senderId: sendingUser.id,
    senderName: sendingUser.get("username"),
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    soundId: soundId
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  response.success(200)
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  response.error(error.message);
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```

//NEW PUSH CODE

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Parse.Push.send({
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    response.error(error.message);
  }
});
```

Zwischenstopp

Was fehlt noch?



Provisionierung von Server und Diensten



DB Migration



JavaScript Cloud Code Migration



Push Notification Konfiguration



Tweaks in Clientcode



Tweaks in Servercode

Zwischenstopp

Was fehlt noch?



Provisionierung von Server und Diensten



DB Migration



JavaScript Cloud Code Migration



Push Notification Konfiguration



Tweaks in Clientcode



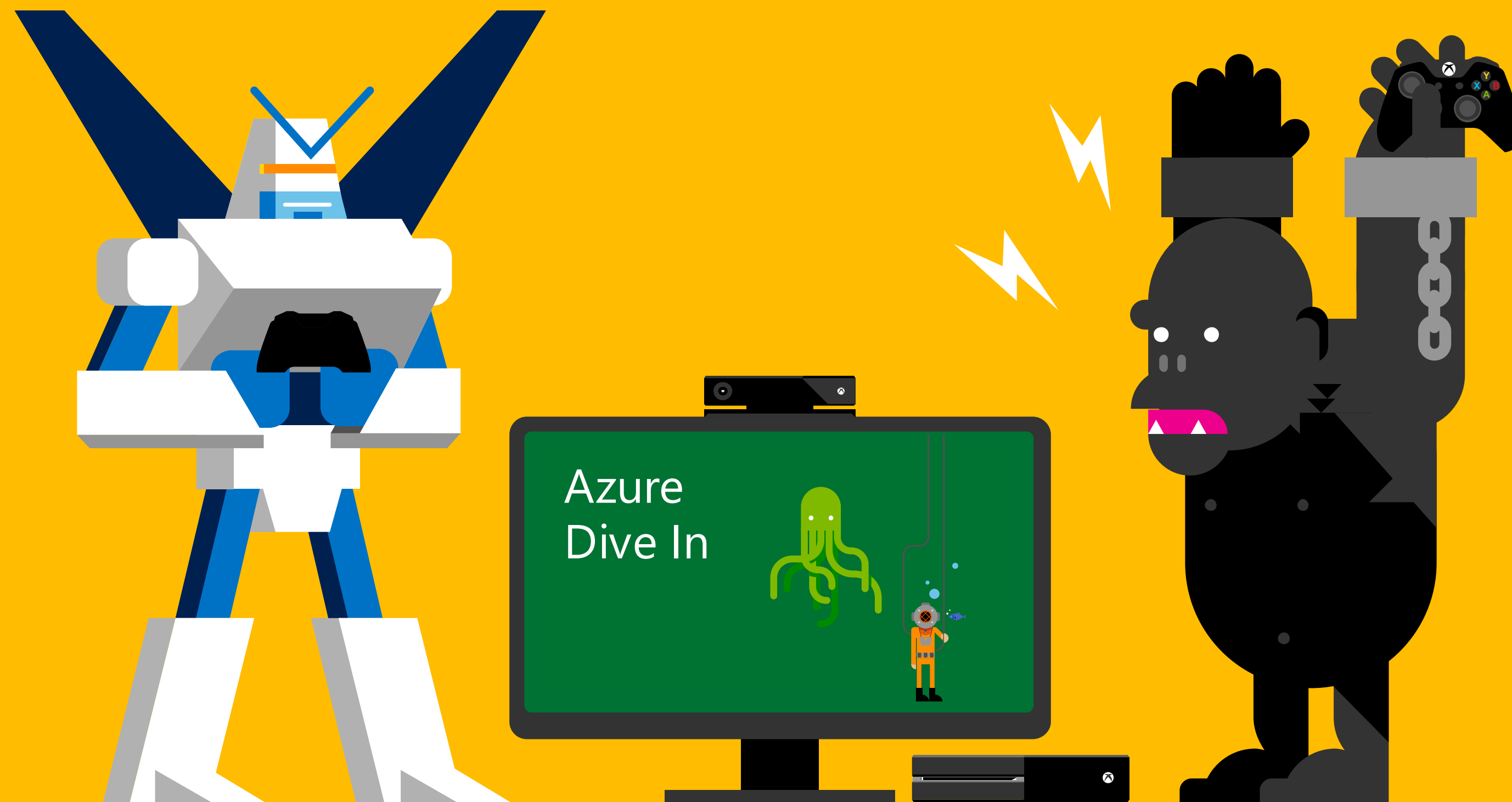
Tweaks in Servercode



Migration auf Azure

DONE!

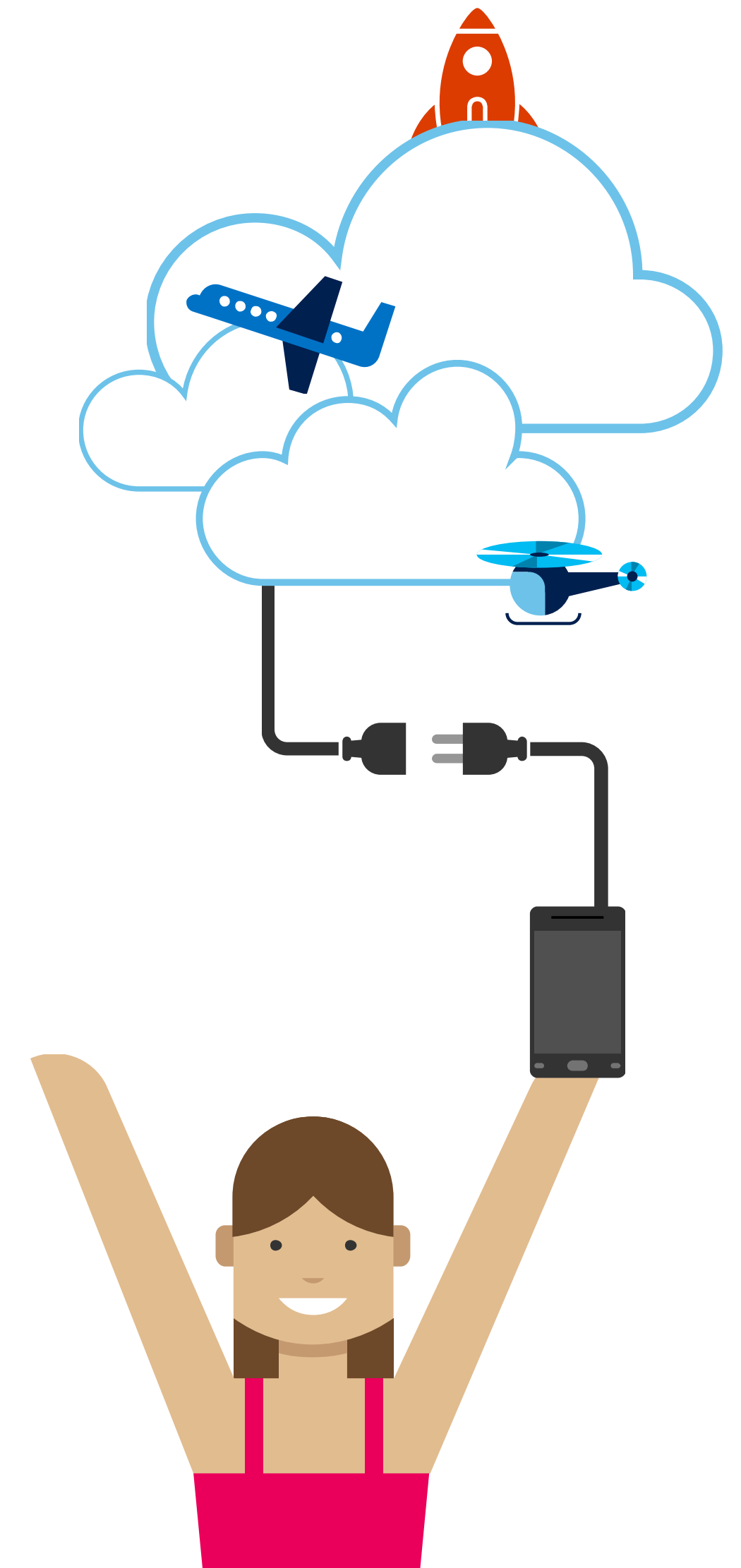
Demo



Das Finale

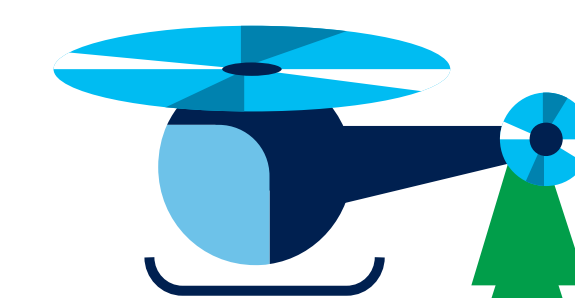
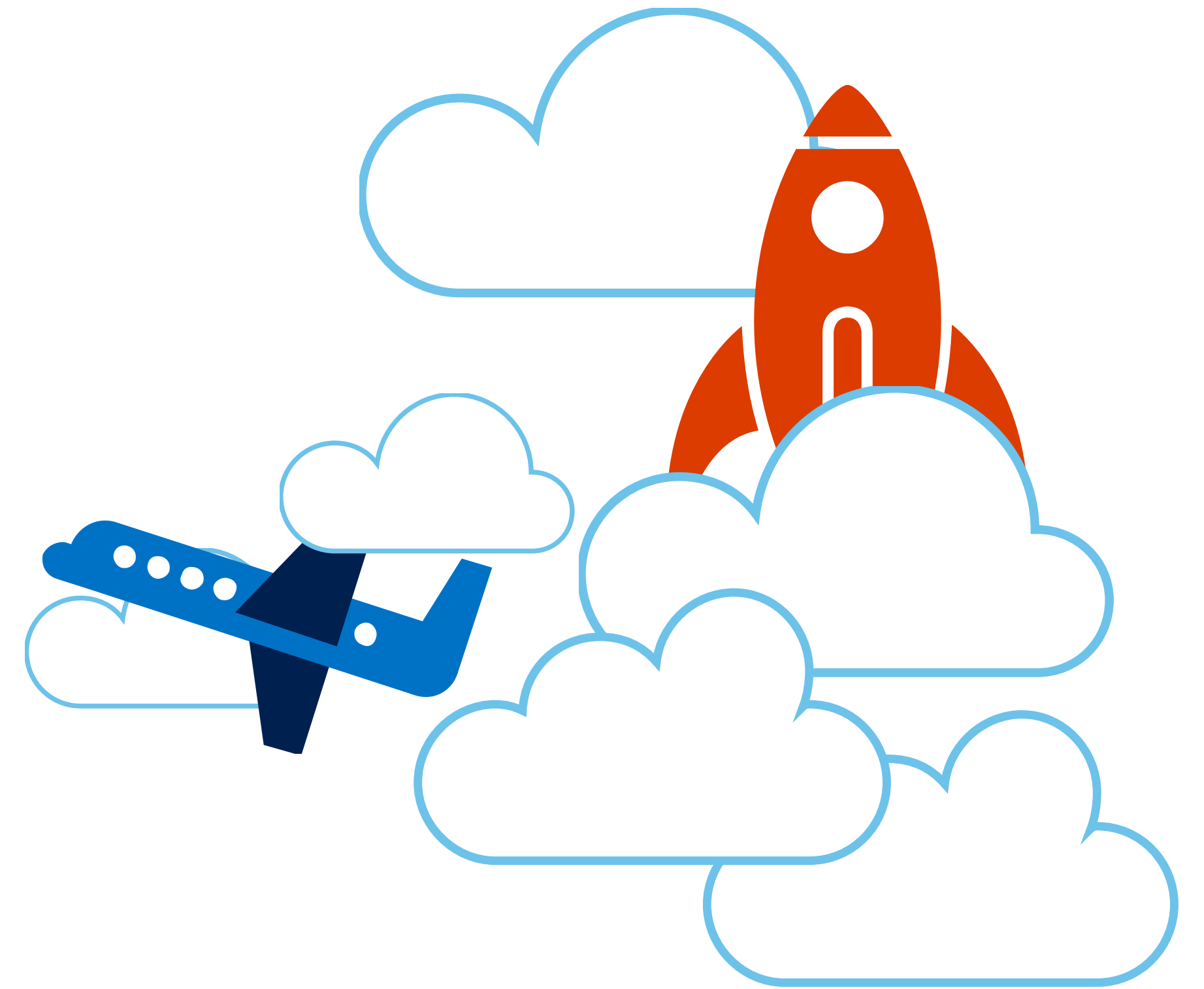
Taking over the world

Dynamische Skalierung



Was geht?

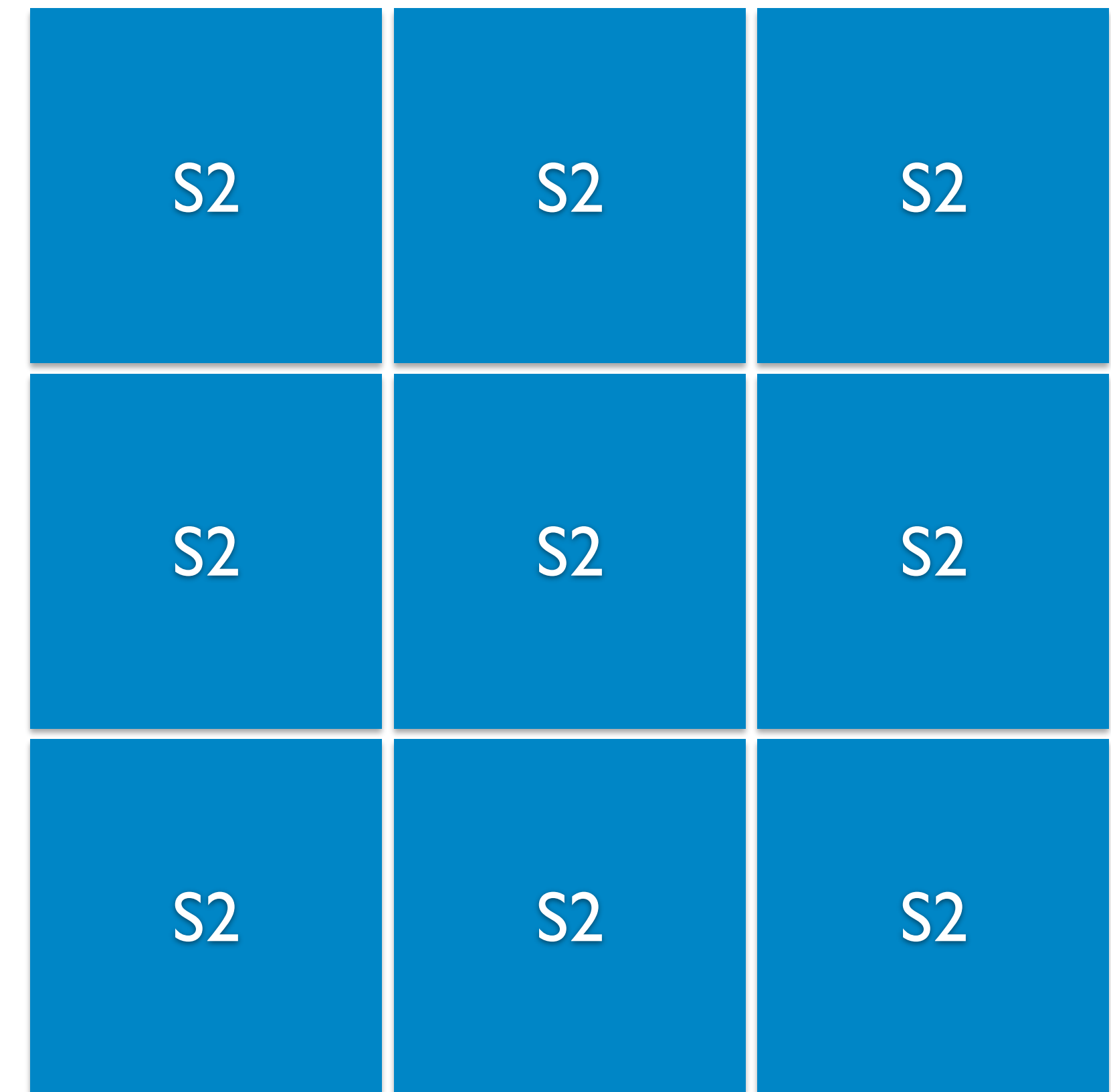
- Gratis bis Epic Premium
- jederzeit anpassbar
- Kostenkontrolle



Skalierung



Azure Scale-Up

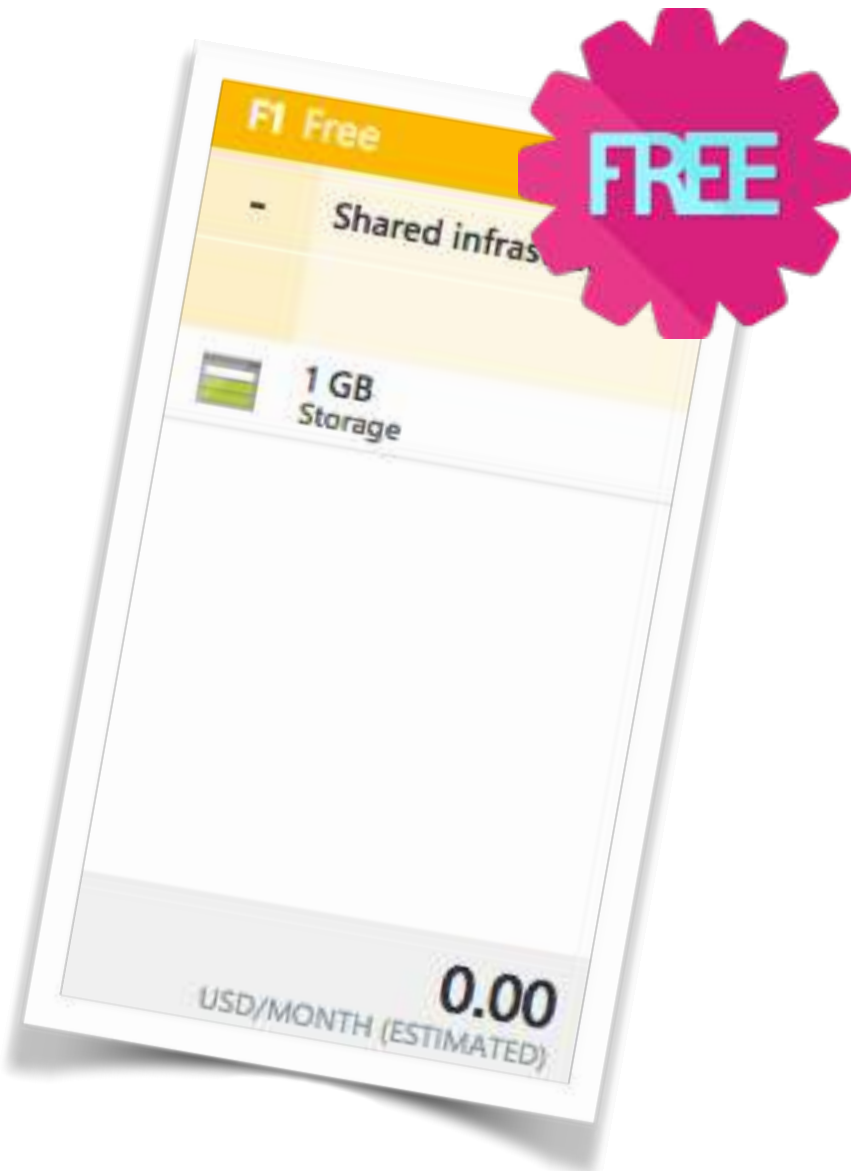

















































Azure Scale-Out

Skalierung

scale-up

- breite Variation an Maschinen
- Pay-as-you-go
- dynamisch änderbar
 - per Klick im Portal
 - automatisiert über Custom-Scripts)

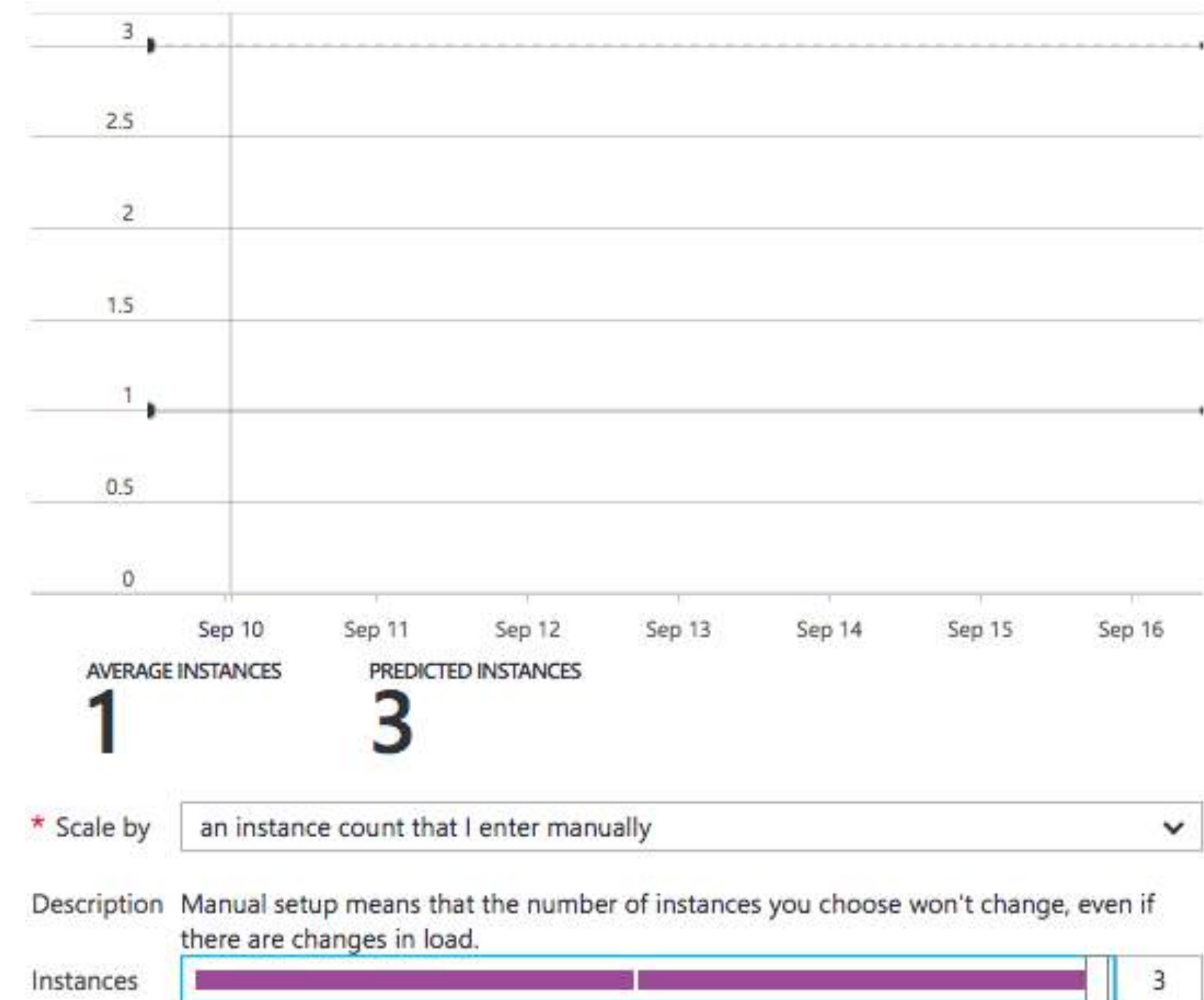


P1 Premium		P2 Premium		P3 Premium	
1	Core	2	Core	4	Core
1.75	GB RAM	3.5	GB RAM	7	GB RAM
	BizTalk Services		BizTalk Services		BizTalk Services
	250 GB Storage		250 GB Storage		250 GB Storage
	Up to 20 instances * Subject to availability		Up to 20 instances * Subject to availability		Up to 20 instances * Subject to availability
	20 slots Web app staging		20 slots Web app staging		20 slots Web app staging
	50 times daily Backup		50 times daily Backup		50 times daily Backup
	Traffic Manager Geo availability		Traffic Manager Geo availability		Traffic Manager Geo availability
223.20 USD/MONTH (ESTIMATED)		446.40 USD/MONTH (ESTIMATED)		892.80 USD/MONTH (ESTIMATED)	
S1 Standard		S2 Standard		S3 Standard	
1	Core	2	Core	4	Core
1.75	GB RAM	3.5	GB RAM	7	GB RAM
	50 GB Storage		50 GB Storage		50 GB Storage
	Custom domains / SSL SNI Incl & IP SSL Support		Custom domains / SSL SNI Incl & IP SSL Support		Custom domains / SSL SNI Incl & IP SSL Support
	Up to 10 instances Auto scale		Up to 10 instances Auto scale		Up to 10 instances Auto scale
	Daily Backup		Daily Backup		Daily Backup
	5 slots Web app staging		5 slots Web app staging		5 slots Web app staging
	Traffic Manager Geo availability		Traffic Manager Geo availability		Traffic Manager Geo availability
74.40 USD/MONTH (ESTIMATED)		148.80 USD/MONTH (ESTIMATED)		297.60 USD/MONTH (ESTIMATED)	
B1 Basic		B2 Basic		B3 Basic	
1	Core	2	Core	4	Core
1.75	GB RAM	3.5	GB RAM	7	GB RAM
	10 GB Storage		10 GB Storage		10 GB Storage
	Custom domains		Custom domains		Custom domains
	SSL Support SNI SSL Included		SSL Support SNI SSL Included		SSL Support SNI SSL Included
	Up to 3 instances Manual scale		Up to 3 instances Manual scale		Up to 3 instances Manual scale
55.80 USD/MONTH (ESTIMATED)		111.60 USD/MONTH (ESTIMATED)		223.20 USD/MONTH (ESTIMATED)	

Skalierung

scale-out

- Je nach Plan Instanzen duplizierbar
Basic = 3 bis Premium = 20 Instanzen
- Pay-as-you-go
- dynamisch änderbar
 - per Klick im Portal
 - automatisiert über Custom-Scripts)



Das Wort zum Schluss



Geschafft!



Dienste in Azure provisioniert



Parse Server aufgesetzt



DB und CloudCode nach Azure migriert



Push Notifications konfiguriert



Anpassungen in Client- und Servercode

Aber!



Kosten im Auge behalten



Dienste selbst verwalten



Zustand und Wartung der Parse SDKs

Fragen?

Merci!

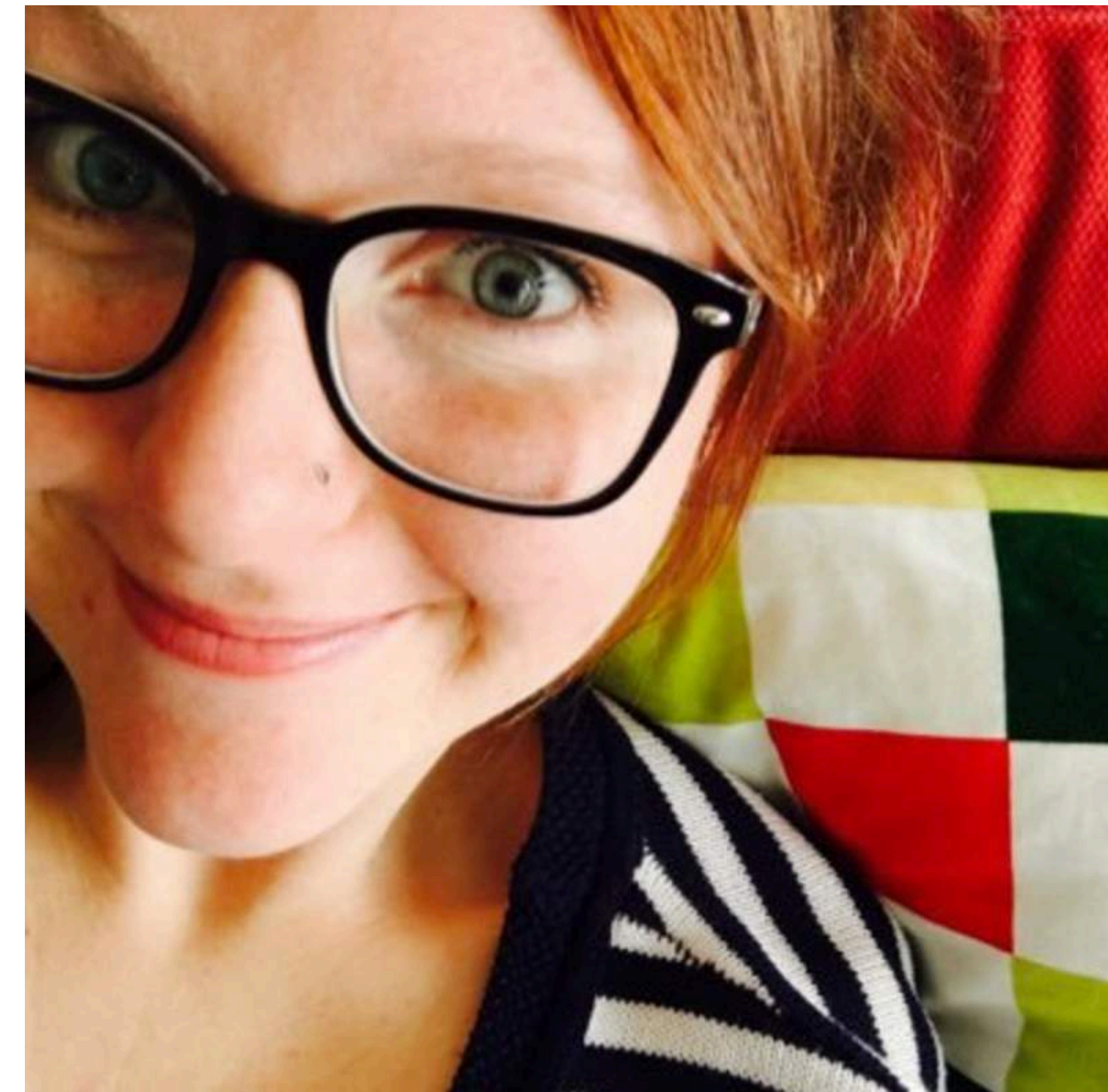


sagt

Manu Rink
Technical Evangelist



marink@microsoft.com
@codeprincess



Das Notwendige

Quellenverzeichnis

Zombie Icons

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Free Badge

Icons made by Roundicons from www.flaticon.com

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Parse Logo

von parse.com

Parse & Microsoft Azure Logo

von Microsoft

Illustrationen (bunt)

von Microsoft

Screenshots von Azure & jeglichem Code

Manuela Rink

Implementierungscode

Manuela Rink

App Store Logos

Herzrasen: <https://itunes.apple.com/de/app/fussball-live-ticker-herzrasen/id529120477?l=en&mt=8>

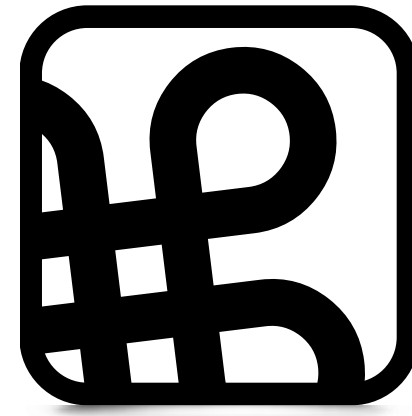
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