



Save the date!

Woensdag

Upgrade naar OutSystems versie 11

25 november 2020

Lean Coffee



 outsystems

Kennismaking



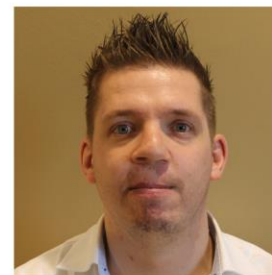
Herman Kalse
Directeur ADA ICT



Lucienne Bakkers
Office Manager - Gastvrouw



Gerben van Ophuizen
Agile Coach - Gastheer



Peter van den Ochtend
Expert OutSystems Developer



Rob Engler
Business Consultant



Patrick Huijnen
Senior OutSystems Developer



Aankondiging



Upgrade van het OutSystems platform. Deze avond gaat over de verschillende onderdelen waar je als “Devops” mee te maken krijgt bij een migratie naar **versie 11**. Wij geven inzicht in de **best practices**, waar wij als OutSystems Partner, tegenaan zijn gelopen in de praktijk. Hierbij belichten we de “**Cloud**” als ook de “**On-Premise**” situatie. Daarnaast geven we overzicht in de **volgordelijke stappen** voor een goed lopend traject. “**Valkuilen**” en “**Known Issues**” laten we de revue passeren en geven tips bij het gebruik van “Forge” componenten. Als laatste geven we tips voor de overgang van **Silk UI naar OutSystems UI**.



Welkom bij ADA ICT



Organisatorisch (18.35)

- Upgrade OutSystems V.11
- Voorbereiding
- Communicatie
- Planning
- Take away

Technisch (18.55)

- Migratie OutSystems V.11
- OutSystems release "Methoden"
- Versioning (platform server)
- OutSystems Onpremise Upgrade
- Volgorde van omgevingen
- Tips en trics
- Forge componenten
- Silk UI → OutSystems UI

Lean Coffee (19.15)

- Groep 1 (Patrick Huijnen)
- Groep 2 (Peter van den Ochtend)
- Groep 3 (Rob Engler)

Take-away (20.00)

- Sluiting



Upgrade OutSystems V.11

CONTINUOUS
QUALITY DELIVERY

What's The Plan

Quick Scan

What's Needed

Development

Testing

Maintenance and Support

**Meer succes
door betere IT**

ada co-creating
business
software

Voorbereiding Documentatie en links

OutSystems Upgrade (last updated: 02/2017)

Upgrading to a new OutSystems version is a process that requires preparation since it will impact all your applications. To perform an upgrade and understand the changes you need to make in your applications to make them fully functional in the new version you need to follow a four-step process containing: Analysis and Preparation, Planning, Execution, and Testing.

Analysis and Preparation

- Check the Release Notes and Security Fixes from the Platform Server (see [Platform Server Release Notes](#) and [Security Fixes](#)).
- Check about code effects and breaking changes on applications in the new version in the [OutSystems Upgrade Checklist](#).
- If you are a cloud customer, please contact OutSystems Support to upgrade your SaaS plan.

Planning

- How long will the code fixing take?
- How long will it take to publish applications?
- Make sure that your teams (Development Team and Test team) will be available because that an upgrade affects these workings.
- If you are a cloud customer, please contact OutSystems Support to upgrade your SaaS plan.

Execution

- Use the Installation Checklist (see [OutSystems Upgrade Checklist](#)) and follow the instructions.
- If you are a cloud customer, OutSystems will perform the upgrade for you, based on the plan you provided.
- Worked with the code fixing.

Testing

- Check that you are sure that your applications are not affected by the upgrade.

Preparing and Planning an OutSystems Upgrade

Before starting your Upgrade you must keep the following in mind:

What to Consider?

- When performing an upgrade, you need to consider that:
 - All your applications will have a new version after the upgrade.
 - The upgrade can introduce breaking changes that require fixing.
 - If you are a cloud customer, OutSystems will perform the upgrade for you, based on the plan you provide.
- An upgrade cannot occur when a development sprint is in progress.
- An upgrade should always happen between development sprints (if you have teams at a different speed, make the necessary adjustments).
- An upgrade should always happen between development sprints (if you have teams at a different speed, make the necessary adjustments).

Environment Upgrade Strategies

To perform an Upgrade, there is the need to select the best strategy according to the existing conditions. We recommend the **LifeTime Upgrade**. However, all other presented strategies are valid.

LifeTime Upgrade

Go to have LifeTime in the latest version available to take advantage of the latest improvements.

In case these custom lifetime plugins a Code-Based Upgrade must be applied, as these plugins do not exist on any other environment.

With this approach, system and applications on the Development environment are staged in LifeTime in the next environment with a new version of your application upgrade.

The approach allows you to identify applications that you have tested or validated previously.

For the Production you should create a custom checklist containing all the requirements and steps to be evaluated in production, following a [checklist for zero-downtime upgrade](#).

Solution-Based Upgrade

A solution-based upgrade is a manual approach, instead of using an automatic staging like in a LifeTime upgrade. In this case, a Solution is manually staged between environments using Service Center.

Code Based Upgrade

A Code-Based Upgrade: The environments are individually updated, and all fixing and testing, including platform major version breaking changes, in applications must be executed directly on each environment (DEV, QA, PRE, PROD). Use the installation checklist to upgrade your OutSystems platform on each environment.

Go Live Strategies

When doing an Upgrade, there is the need to have a strategy on how you are going live, after the upgrade. In our case, you can do a Downtime Upgrade or a Zero-Downtime Upgrade.

Downtime Upgrade (Production)

A Downtime Upgrade is the safer way to perform an upgrade and advised when there are no business requirements for zero-downtime. By staging the production environment and promoting and using access, the upgrade process is guaranteed, and a rollback can happen with no data loss.

This strategy can be used both in a LifeTime upgrade or a Solution-Based Upgrade.

Zero-Downtime Upgrade (Production)

A Zero-Downtime Upgrade is the safer way to perform an upgrade and advised when there are no business requirements for zero-downtime. You will maintain existing data loss.

To perform a Zero-Downtime Upgrade with access, your environment requires multiple Front Ends in each OutSystems Zone. If you don't have this feature enabled you can't proceed with this solution. The Upgrade process is done by:

- Disabling the Front end services in Service Center.
- Staging the platform in the compatible mode.
- The load balancer distributes traffic between and across in each zone.
- Upgrade the remaining Front End servers.
- Finally, re-enable all servers in the Load Balancer.

<https://success.outsystems.com/@api/deki/files/22607/platform-upgrade.pdf?revision=1>

Community - Forum "Upgrade v11" Learn - OutSystems 11 Docs

Upgrade OutSystems platform

Overview

The OutSystems ecosystem is divided into components with different [release cycles](#): Platform Server, Development Environment and LifeTime Management Console. In this article, we will focus on the upgrade of the core server part of OutSystems product, the Platform Server.

Upgrading your OutSystems environment to a new Platform Server version is a four-step process that requires preparation since it will impact your applications and your applications will have a new version after the upgrade. The steps are Analysis and Preparation, Planning, Execution, and Testing.

If you want to take this information offline, please check the [OutSystems Upgrade Checklist](#) that describes the overall procedure outlined in this guide.

LifeTime Upgrade

Up to version OutSystems 10, upgrading OutSystems to a new major version means upgrading all the infrastructure (LifeTime management console and the application environments).

From version OutSystems 11 onwards, [OutSystems uses a solution-based approach](#) from the Platform Server, which enables both components to have different upgrading paths.

When upgrading your infrastructure, make sure the LifeTime is the most up-to-date environment. If you're running OutSystems 11 or previous, first you need [OutSystems 11 on your Platform Server](#) to be the latest version.

Starting with version 11, LifeTime is only supported when installed in a dedicated environment. If you still have it installed in an application environment, please check the [OutSystems Upgrade Checklist](#).

Analysis and Preparation

Before we start the upgrade, we should always learn more about the specific release. Start by understanding why are the new features, improvements, and security fixes. See:

- [View the OutSystems 11 Release Notes](#)
- [Release Notes](#)

Then, it's important to assess the impact that the upgrade may have in your applications and infrastructure, checking the Side Effects and Breaking Changes documents:

- [Side Effects and Breaking Changes \(OutSystems 11\)](#)
- [Side Effects and Breaking Changes \(OutSystems 10\)](#)

Be sure to read all the documents that might impact your upgrade. For example, if you're upgrading from OutSystems platform 9 to 11, read the breaking changes for versions 10 and 11.

Planning

The second phase in the planning. Based on the breaking changes identified you should estimate how long it will take to perform all the needed code fixing, and to publish all the applications to the new version.

Make sure that your team is involved (Development Team and Test team will be needed) and plan ahead, so the upgrade is aligned with your release cycle.

An upgrade sprint should never break a development sprint.

An upgrade should always happen between development sprints (if you have teams at a different speed, make the necessary adjustments).

Execution

Once you have your Upgrade plan defined and the development and test teams allocated, you can then proceed with the Upgrade itself.

Starting in the Development environment, follow the procedure that corresponds to your installation:

Upgrade Platform Server

If you are using a pre-installed environment and you would like to upgrade it to the latest version please refer to the article [How to upgrade a pre-installed environment to the latest version](#).

OutSystems Cloud

In the OutSystems Cloud, the process of upgrading the Platform Server is handled by OutSystems, coordinating with you in every step of the way, to guarantee a successful and as effective as possible procedure, consisting of the following high-level steps:

- You can request the upgrade of your OutSystems Cloud infrastructure in a supported capacity version, by opening a Support Case using [our OutSystems Connectors](#).
- OutSystems will promptly contact you to schedule and plan the Platform Server upgrade.
- OutSystems prepares content with the upgrade of the Platform Server component on the environment on the agreed schedule.
- Upgrade the remaining environments, preferably according to staging order, following the same procedure, with coordination between you and OutSystems to find the best checklist for each of the environments.

OutSystems is only responsible for the Platform Server upgrade. Close the OutSystems software (System Components included) is updated in the environment, the customer is responsible for:

- Re-deploying applications ([Check Applications to be re-deployed](#))
- Receiving any breaking change.

Your Datacenter (On-Premises / Private Cloud)

If the environment is running in your own private cloud or on-premises, the upgrade process is fully managed by you, without the direct involvement of OutSystems. However, at any time you can [OutSystems Support](#) for assistance if you have any questions or get any errors in the process.

The process is the following:

- Download the latest version of the [OutSystems Upgrade Checklist](#).

2. Follow the [OutSystems Checklist](#) for the correspondent version. In the Installation Checklist (in 10.8, 11.0), select "Upgrade to a new Major Release" or "Upgrade to a new Release or Cumulative Patch" (if you are just updating your environment), and follow the instructions.

Checklist for OutSystems Platform Server Installation

Go Live Strategies

When upgrading the Platform Server you should take into account that the environment is already under maintenance. That being said, if you already have Live applications, this process may impact them and, as such, you should define a strategy for the upgrade of your Production environment, based on the priority of your applications.

Downtime Upgrade

A Downtime approach is the safest way to perform an upgrade and advised when there are no business requirements for zero-downtime. By staging the production environment and promoting and using access, the upgrade process is guaranteed, and a rollback can happen with no data loss.

Zero-Downtime Upgrade

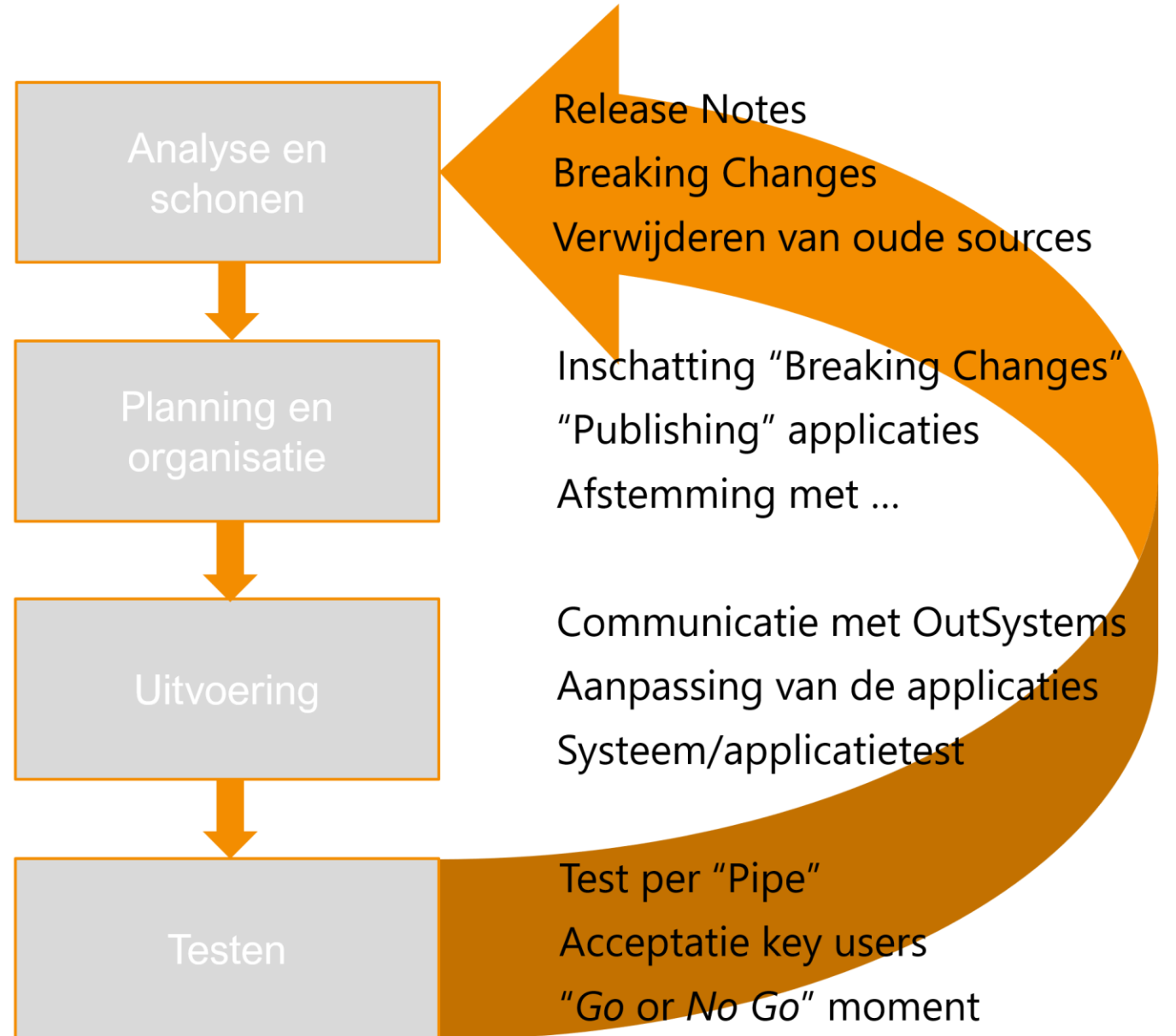
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<https://success.outsystems.com/@api/deki/pages/2509/pdf/Upgrade%2bOutSystems%2bplatform.pdf?stylesheet=default>

Vorbereiding

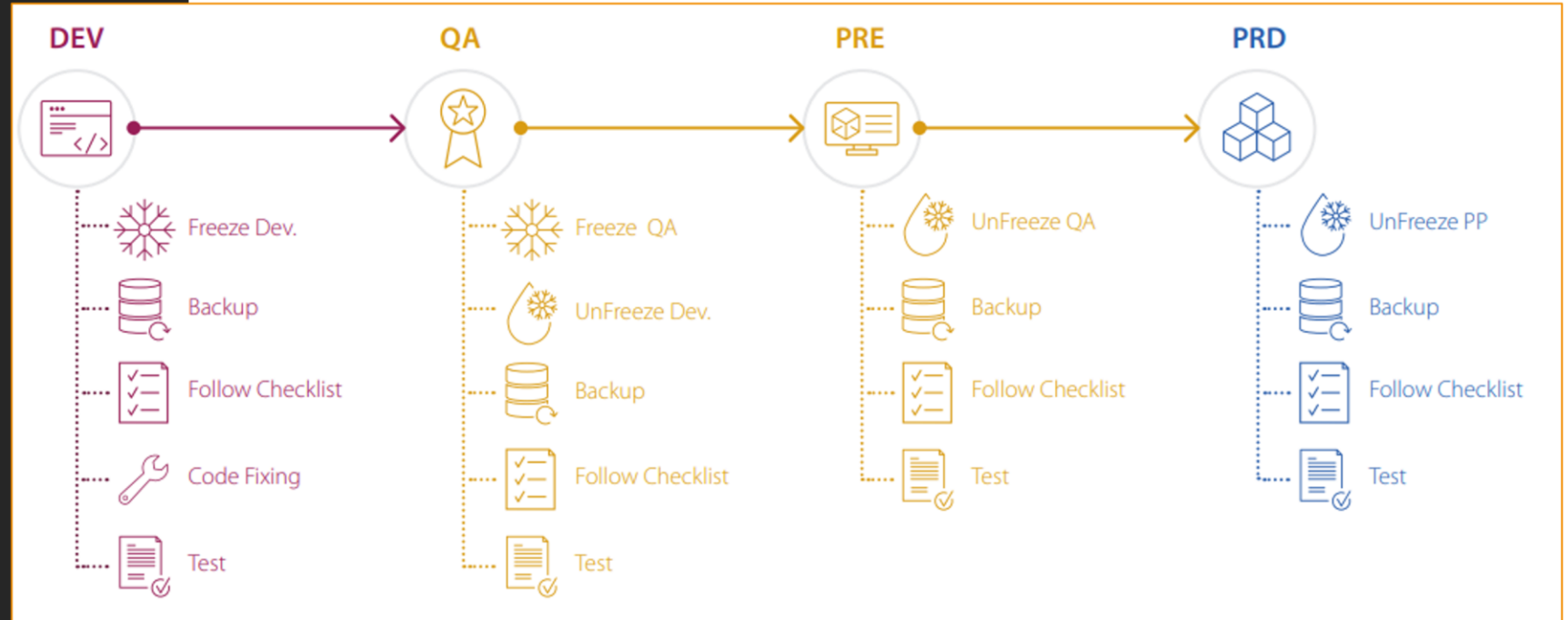
Volgordelijke stappen



Terugkerend proces voor elke
"Pipe" in de OTAP straat

Vorbereiding

OTAP straat



Per "Pipe"

- Bevries de omgeving
- Vergeet geen backup van de omgeving te maken
- Checklist (wordt draaiboek voor productie)

Vorbereitung

Analyse en schonen

Analyse en
schonen

Release Notes

Breaking Changes

Verwijderen van oude sources

Release Notes



https://success.outsystems.com/Support/Release_Notes/11/Development_Environment

Breaking Changes

- Check de 33 punten variërend van: Life Time, wijzigingen in Service Center (debug mode), SMS Flows, MySQL, tekst velden > 2000 (oracle), log files (read only/joins), API's, Built in functies (time diff)

Verwijderen van oude sources

- Testapplicaties
- Niet gebruikte applicaties (entiteiten)

Vorbereiding

Planning en organisatie

Planning en
organisatie

Inschatting "Breaking Changes"
"Publishing" applicaties
Afstemming met ...

Inschatting "Breaking Changes"

- Omvang 800 AO's – 1 week doorlooptijd (gemiddeld)
- Is afhankelijk van de moeilijkheid en de impact van de aanpassing
- Beschikbare documentatie/kennis (zoeken kost het meeste tijd)

"Publishing" applicaties

- Inventarisatie van de applicaties, omvang bepalen
- (dev) geeft een tijdspanne voor de andere pipe's in de OTAP
- Try and error

Afstemming organisatie

- Een upgrade sprint mag geen "break" betekenen voor een development sprint
- OutSystems – plannen van het omzetten van de verschillende omgevingen
 - Database (SSD) 1 dag extra (alleen in de cloud)
 - Server update (zorg voor een bevestiging van OutSystems)
- Testers (key – users) inplannen na elke stap in de OTAP straat
- Organisatie (down tijd is bepalend voor de final upgrade in productie)

Vorbereiding

Uitvoering



Communicatie met OutSystems
Aanpassing van de applicaties
Systeem/applicatietest

Afstemming OutSystems

- OutSystems – Schema opstellen met principe afspraken
- Supportdesk OutSystems informeren voortgang
 - Plan ruimte in voor het afhandelen van support aanvragen

Aanpassing applicaties

- Autorisatie en toegangscode voor de verschillende omgevingen (rechten)
- Team verwerkt aanpassingen per solution
- Dagelijkse stand-up (escalatiemogelijkheid bij eventuele problemen)
- Dagboek bijhouden (ervaringen) voor "draaiboek productie"

Vorbereiding

Testen



Test per "Pipe"

Acceptatie key users

"Go or No Go" moment

Systeem/applicatie test

- Maak ruimte voor het testen van de applicatie (dev - technisch)
- Regressietest uitvoeren indien mogelijk (test – acceptatie)
- Ruimte maken voor een terugkoppeling van en naar de testers
- Breng testers op de hoogte als er een supportvraag uitstaat bij OutSystems
- Tester (key – users) inplannen na elke stap in de OTAP straat (Go or no Go)
- Ruimte maken voor aanpassingen en voor de terugkoppeling van en naar de testers
- Tester bepaalt de *GO* or *NO GO*

Vorbereiding

Testen



Test per "Pipe"

Acceptatie key users

"Go or No Go" moment

Systeem/applicatie test

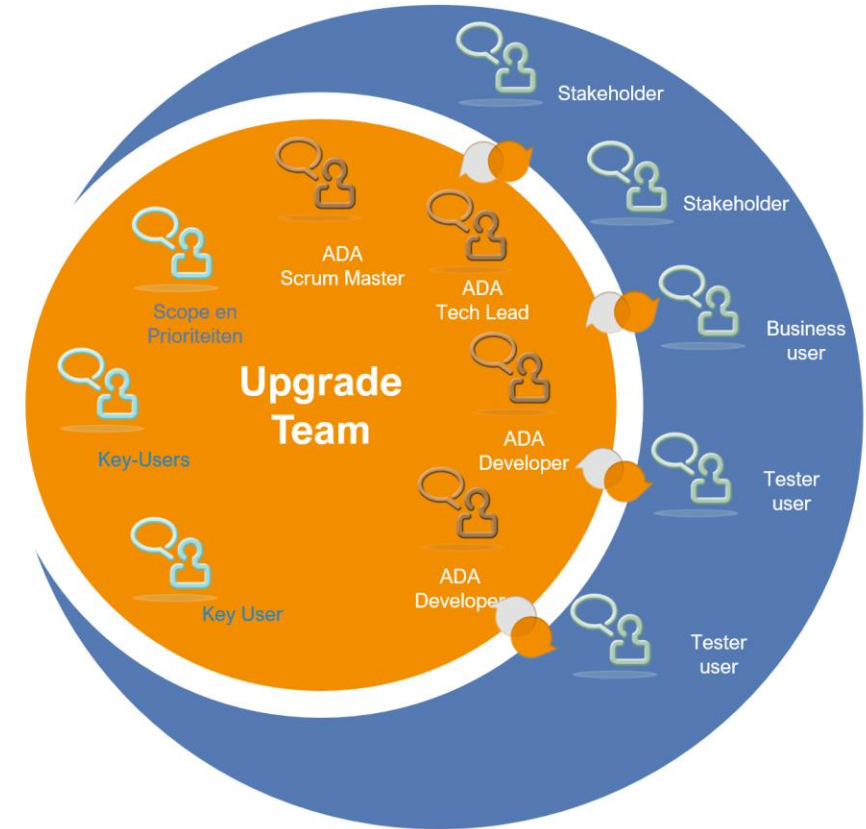
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- Tester bepaalt de *GO* or *NO GO*

Communicatie

Agile

- Daily Stand-up / Hart beat
- Back log (Jira)
- Checklist in Excel
- Draaiboek in productie

Datum/tijd	Wat	Wie	Opmerkingen
	COMMUNICATIE		
7-mei	www.scildon.nl onderhoudsmelding	Jv/B	Voor zondag
7-mei	VOD onderhoudsmelding	Jv/B	Voor zondag
7-mei	Mijn.Scildon onderhoudsmelding	Jv/B	Voor zondag
7-mei	Adly informeren over database en OS upgrade	Jv/B	IVM copy Jobs Boomerang
8-mei	App groep maken	Jv/B	Jv/B, BJV, Mark, Roy, Rob_E, Patrick, Leon, Thierry
8-mei	Bollen Bert voor P3 implementatie	Jv/B	Jv/B geeft gedurende weekend status updates
	VOORBEREIDING		
8-5-2020 12:00	SIF doorlopen	Patrick	
8-5-2020 12:00	Bert Turion SIF mailen	Jv/B	
8-5-2020 11:00	Jobs Prisma uitzetten	Roy	Copy data Boomerang Ongestruikt dicht Financiele interacties stoppen
	DATABASE UPGRADE		
3-5-2020 01:00	OS database upgrade	OS	
03:00	Database referenties aanpassen	BJV	kan ook Zondag!
03:30	Check functionaliteit Zakelijk	Roy	
03:30	Check functionaliteit Particulier	Jv/B	
10:00	Communicatie APP verstoren appgroep	Jv/B	
	OS 11 upgrade		
3-5-2020 20:00	Redirect naar www.scildon van portalen	BJV	Prisma portalen, Extracat
20:00	Dichtzetten portalen in mijn.scildon	Jv/B	@Jv/B met marketing overleggen
20:00	SEO redirect prisma	BJV	Extracat en prisma wallet
20:00	Extracat portaal polizoeder dicht	Mark	https://www.scildon.nl/inloggen/
	SIF P3 uitvoeren	Bert/T	Bert/Terion Arxaced programs
10-5-2020 01:00	OS 11 upgrade	OS	
07:55	India geen mail gereed OS -> bollen met OS voor status	Jv/B!	
08:00	Financieel Mail etc regels BJV	BJV	Zie blvw vlak onder
08:30	Certificaat vernieuwen op PRD	BJV	
09:00	FactoryConfig "nozziff" regel verwijderen	Jv/B	csdd name="X-Content-Type-Options" value="nozziff" />
09:05	Solution "All_objects" public	Jv/B	
11:00	Toevoegen Thierry aan APP groep	Jv/B	tel 0627309901
11:00	Uitvoeren SIF	Jv/B	SIF van te voren nog controleren met ontwikkelaars
11:55	FactoryConfig "nozziff" regel weer toevoegen	Jv/B	FactoryConfig "nozziff" regel weer toevoegen
12:00	No-Self checkbox uit	Jv/B	csdd name="X-Content-Type-Options" value="nozziff" />
12:00	Solution "All_objects" public	Jv/B	
13:30	Check error logs, rode kruisjes/uitrooptekens etc	Jv/B/Mark/Roy	
13:45	ProductieAcceptatieTest Zakelijk	Thierry	
14:45	PAT particulier	Mark	
14:30	GO-10050	Jv/B	
14:35	Portalen weer open zetten v/allet	Jv/B	
14:35	Extracat polizoeder openzetten	Mark	
14:35	SEO Prisma terugzetten	BJV	
14:40	Jobs Prisma weer aanzetten	Roy	
14:40	APP'je "Success" naar Jeffrey, Johan, Marco	Jv/B	
11-5-2020 10:00	IP adressen doorgeven SDV/orx	Roy	Of bertjan?



Algemeen

Take away

Vorbereiding is het halve werk

- Schonen van applicaties
- Volg het stappenplan
- Ruime planning
- Communicatie
- Draaiboek in productie

Fokke & Sukke

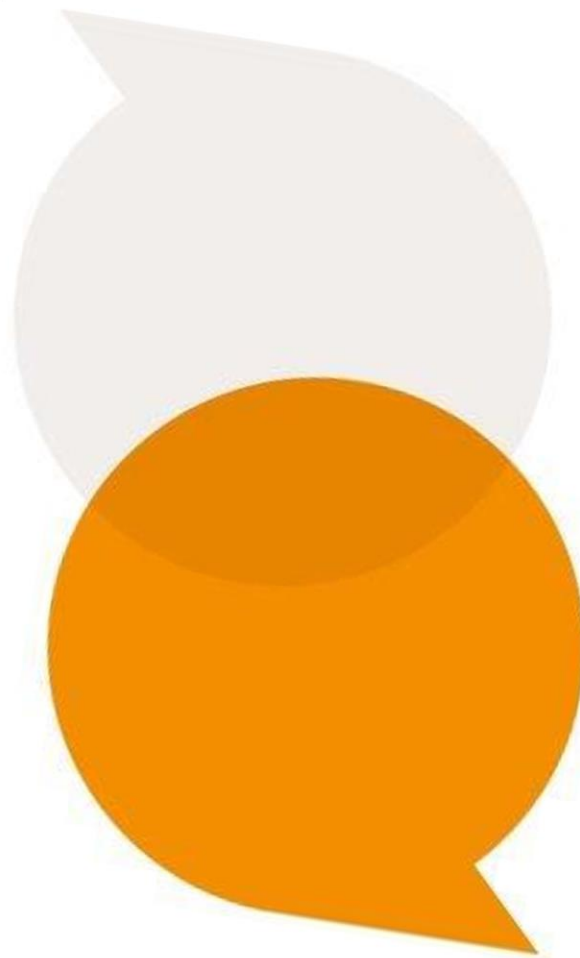
Ik zie helemaal
geen verschil!

Moest het systeem daarom
nou het hele weekend plat?



Next Step

Waarom?



Antwoord



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Dank je wel

25 NOVEMBER 2020