

# Navigating the shift to XM Cloud

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Where to start...?

# Start at the beginning!

- Analyse the existing Sitecore environment
- Get XM Cloud and Vercel
- Downgrade XP to XM, rethink components
- Migrate to XM Cloud
- Create deployment pipelines
- Rebuild head
- Release, test and repeat

# **Analyse existing Sitecore environment**

# Our project starting point

- 50+ sites
- 100+ forms
- 24 Sitecore pipelines
- 100+ components

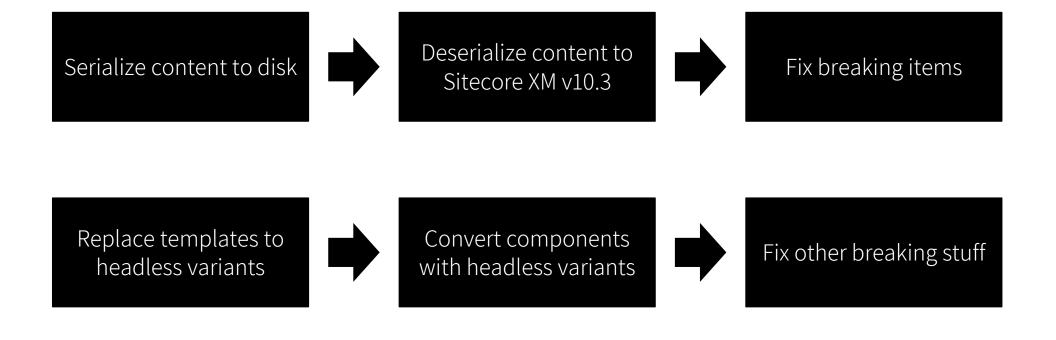
# Don't forget about

- Email Experience Manager (EXM)
- Search
- Lots of content, including media
- External API's



# **Content migation**

## Migrate your content



## How to migrate?

- Copy Production databases
- Restore databases withon local Docker instance for Sitecore XM v10.3\*
- Further serialization with SCS -> \*.yaml files
- Deserialize to Sitecore Headless
- Create a Macawsome Powershell script
  - Find and replace non-headless GUIDs to headless GUIDs
  - Templates, components, etc.

# **Shift into Forms**

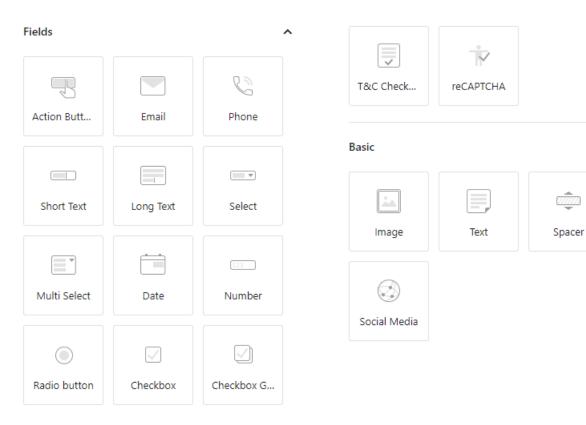
## What about forms?!

- 100+ forms to migrate
- Some highly complex, due to sections, many conditions
- Broken links
- Incorrect fieldtypes
- Incorrect or unavailable validators

Would Sited Whealt says bee? a good fit?

## We say not (yet)

- Limited functionality
- Missing sections
- Missing custom components / actions



react-jsonschema-form to the rescue

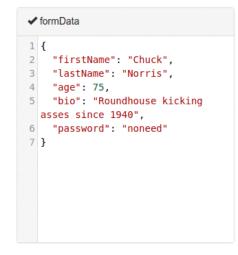
## react-jsonschema-form

```
✓ JSONSchema

1 {
"title": "A registration form",
"description": "A simple form example.",
4 "type": "object",
 5 "required": [
     "firstName",
     "lastName"
9 "properties": {
    "firstName": {
    "type": "string",
12
     "title": "First name"
13
14
     "lastName": {
     "type": "string",
```

```
✓ UISchema

 1 {
 2 "firstName": {
     "ui:autofocus": true
 4 },
 5 "age": {
     "ui:widget": "updown"
 7 },
 8 "bio": {
     "ui:widget": "textarea"
10 },
11 "password": {
"ui:widget": "password",
   "ui:help": "Hint: Make it
  strong!"
14 },
```



simple form example.	
irst name*	
Chuck	
ast name*	
Norris	
Age	B
75	
Bio	
Roundhouse kicking asses since 1940	
assword assword	
*****	
lint: Make it strong!	

## react-jsonschema-form

#### Pros:

- Easy schema, highly flexible
- Free of charge
- Transformation from Sitecore Forms to JSON

#### Cons:

JSON only, no easy WYSIWYG editor

## Things to consider

- Simplefy overly complex forms
- Declutter the forms
- Convert into react-jsonschema-form
- Move existing submit actions to Azure Functions
- Save, test, repeat...

Next topic: EMX

## What about Emails?!

- Sitecore offers Sitecore Send
- Customer wants to use Salesforce
- Temporary workaround use Sendgrid

## Things to consider

- Reusing existing e-mail templates
- Clean-up unused email and templates
- Post-submit actions
- Use Sitecore Webhooks

What about the Head?

## **Rebuild head**

- 100+ components
- Lift and shift approach
- Wrap existing React code to comply with XM Cloud
- Rebuild couple of razor views

How do we deploy all this?

# **Deployment pipelines**

- Build and deploy from Azure DevOps
- Use them CLIs!



## **Vercel - Example**

```
steps:
- task: NodeTool@0
 inputs:
   versionSpec: '18.15.0'
 displayName: 'Install Node.js'
- script:
   npm ci
   npm ci vercel
 workingDirectory: $(Build.SourcesDirectory)/src/sxastarter
 displayName: 'npm install'
- script:
   vercel pull --yes --environment=preview --token=$(VERCEL_TOKEN)
 workingDirectory: $(Build.SourcesDirectory)/src/sxastarter
 displayName: 'Vercel | Pull environment'
- script:
   vercel build --token=$(VERCEL_TOKEN)
 workingDirectory: $(Build.SourcesDirectory)/src/sxastarter
 displayName: 'Vercel | Build'
- script:
   vercel deploy --prebuilt --token=$(VERCEL_TOKEN)
 workingDirectory: $(Build.SourcesDirectory)/src/sxastarter
 displayName: 'Vercel | Deploy'
```

## Sitecore – Example \*

## **Create deployment**

```
stage: ${{ parameters.stageName }}
 - deployment: ${{ parameters.stageName }}_job
     --group: 'sitecore-xm-cloud-variables'
     -vmImage: windows-latest
       deploy:
         - checkout: self
         - script:
             dotnet tool restore
           displayName: dotnet tool restore
         - template: ../steps/login-to-sitecore-cloud.yaml
           parameters:
             xmcClientId: $(xmc-client-id)
             xmcClientSecret: $(xmc-client-secret)
             $deployment = dotnet sitecore cloud deployment create --environment-id $env:XMC_ENVIRONMENT_ID --no-watch --no-start --upload --working-dir $(Build .SourcesDirectory) --json | ConvertFrom-Json
             -Write-Host "##vso[task.setvariable variable=deploymentId;isOutput=true]$deploymentId"
            displayName: 'Create deployment'
             XMC_ENVIRONMENT_ID: $(xmc-${{ parameters.env }}-environment-id)
             ·$deploymentResult = dotnet sitecore cloud deployment start - -deployment-id $(deploymentId) - - json | ConvertFrom Json
              else {
                 Write-Host "$deploymentResult"
            displayName: 'Start deployment'
```

## **Promote deployment**

```
stages:
- stage: ${{ parameters.stageName }}
dependsOn: ${{ parameters.dependsOn }}
 jobs:
  - deployment: ${{ parameters.stageName }} job
     variables:
      - group: 'sitecore-xm-cloud-variables'
      - name: deploymentId
        value: $[stageDependencies.create_deployment_on_dev.create_deployment_on_dev_job.outputs['create_deployment_on_dev_job.CreateDeployment.deploymentId']]
     -pool:
       vmImage: windows-latest
    environment: ${{ parameters.env }}
     strategy:
      -runOnce:
         deploy:
           steps:
           -- checkout: self
           - script:
              dotnet tool restore
             displayName: dotnet tool restore
           - template: ../steps/login-to-sitecore-cloud.yaml
             parameters:
              xmcClientId: $(xmc-client-id)
              xmcClientSecret: $(xmc-client-secret)
           - powershell:
              dotnet sitecore cloud environment promote --environment-id $env:XMC ENVIRONMENT ID --source-id $(deploymentId)
            -displayName: 'Promote deployment'
              XMC ENVIRONMENT ID: $(xmc-${{ parameters.env }}-environment-id)
```

## Things to consider

- Rethink your Git strategy
- Sitecore and Vercel work with promoting environments
- Finally leverage CI/CD!
- Test approved? -> Promote environment to next state, repeat until production
- Think about your content (including templates)

### Lessons learned

- Clean up content before migration
- Create a repeatable content migration
- Redesign your deployment cycle
- Simplify existing forms before migration
- Components are sometimes way more complex than anyone can remember. Do a proper analysis
- Don't try to migrate everything at once. Consider a site-by-site migration



## Special thanks to the team!



Gary Migration magician



Arno Migration buddy



Erwin Wrapmaster



Peter Forms wizard



Sjoerd Platform expert

Thank you!