

Modern DevOps

What does automation look like in a composable world

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#sugcon



SUGCON
ANZ 2022



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🇬🇧 living in 🇦🇺

🐦 @RobEarlam

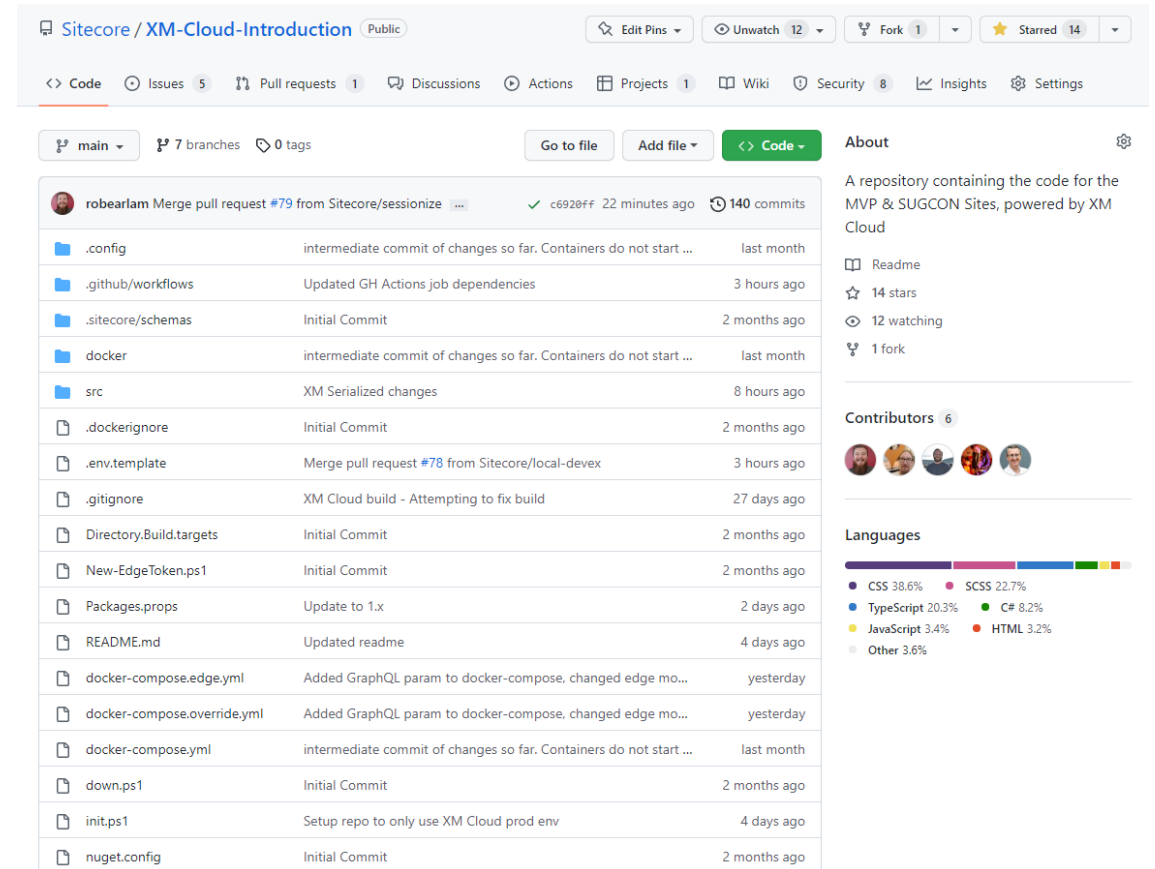
🌐 <https://robearlam.com>

A real world example



What is the project?

- Real world example
- Migration & Green-field
- Work in progress - all subject to change!
- Available publicly now – Not accepting contributions yet!



The screenshot shows the GitHub repository page for Sitecore / XM-Cloud-Introduction. The repository is public and has 14 stars and 12 watchers. It contains 7 branches and 0 tags. The repository description is: "A repository containing the code for the MVP & SUGCON Sites, powered by XM Cloud". The repository has 6 contributors and a language distribution: CSS (38.6%), TypeScript (20.3%), JavaScript (3.4%), SCSS (22.7%), C# (8.2%), HTML (3.2%), and Other (3.6%).

File	Commit Message	Time Ago
.config	intermediate commit of changes so far. Containers do not start ...	last month
.github/workflows	Updated GH Actions job dependencies	3 hours ago
.sitecore/schemas	Initial Commit	2 months ago
docker	intermediate commit of changes so far. Containers do not start ...	last month
src	XM Serialized changes	8 hours ago
.dockerignore	Initial Commit	2 months ago
.env.template	Merge pull request #78 from Sitecore/local-devex	3 hours ago
.gitignore	XM Cloud build - Attempting to fix build	27 days ago
Directory.Build.targets	Initial Commit	2 months ago
New-EdgeToken.ps1	Initial Commit	2 months ago
Packages.props	Update to 1.x	2 days ago
README.md	Updated readme	4 days ago
docker-compose.edge.yml	Added GraphQL param to docker-compose, changed edge mo...	yesterday
docker-compose.override.yml	Added GraphQL param to docker-compose, changed edge mo...	yesterday
docker-compose.yml	intermediate commit of changes so far. Containers do not start ...	last month
down.ps1	Initial Commit	2 months ago
init.ps1	Setup repo to only use XM Cloud prod env	4 days ago
nuget.config	Initial Commit	2 months ago



Sitecore v9 – Azure WebApps

- SUGCON Events
- SUGCON India
- SUGCON ANZ
- MVP Review Portal

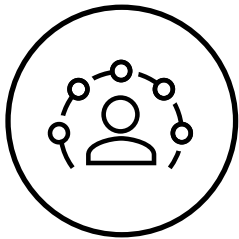
Sitecore v10 – AKS

- MVP Site – including application
- SUGCON EU

- One set of infrastructure powered by XM Cloud
 - All SUGCON Sites
 - All MVP Functionality
- Migration complete to our target “long-term architecture”

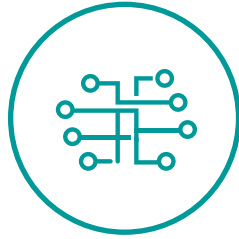


Project requirements



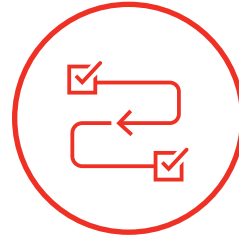
Multi-Site

All sites need to be headless served from a single XM Cloud instance.



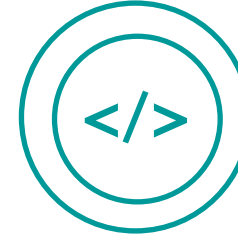
Multi-Technology

Ability to choose development technology per site.



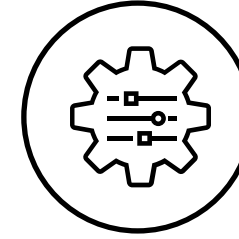
Content Migration

Ability to migrate content from existing sites and between environments



Development Flow

Smooth development flow for all sites regardless of technology chosen.



Deployment Flow

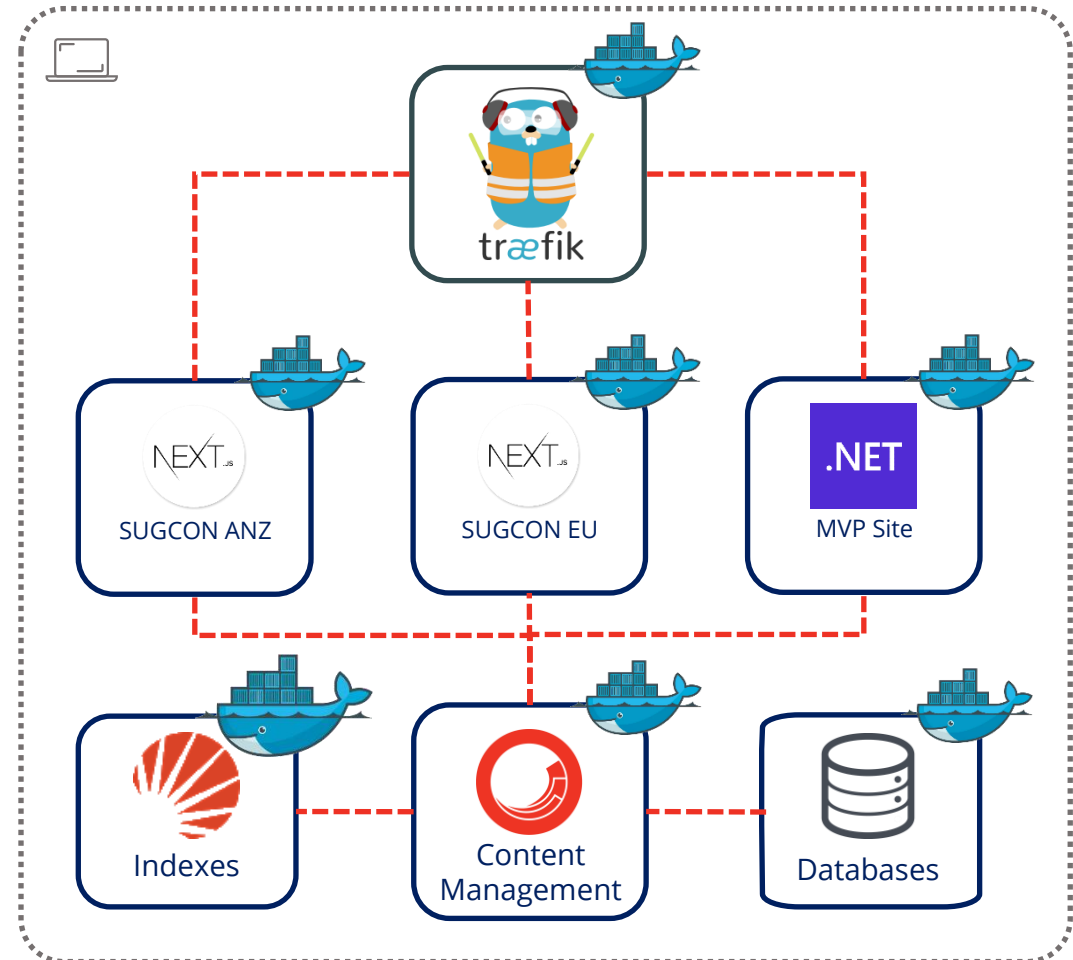
Smooth deployment flow for all sites regardless of cloud hosting used

Development Flow

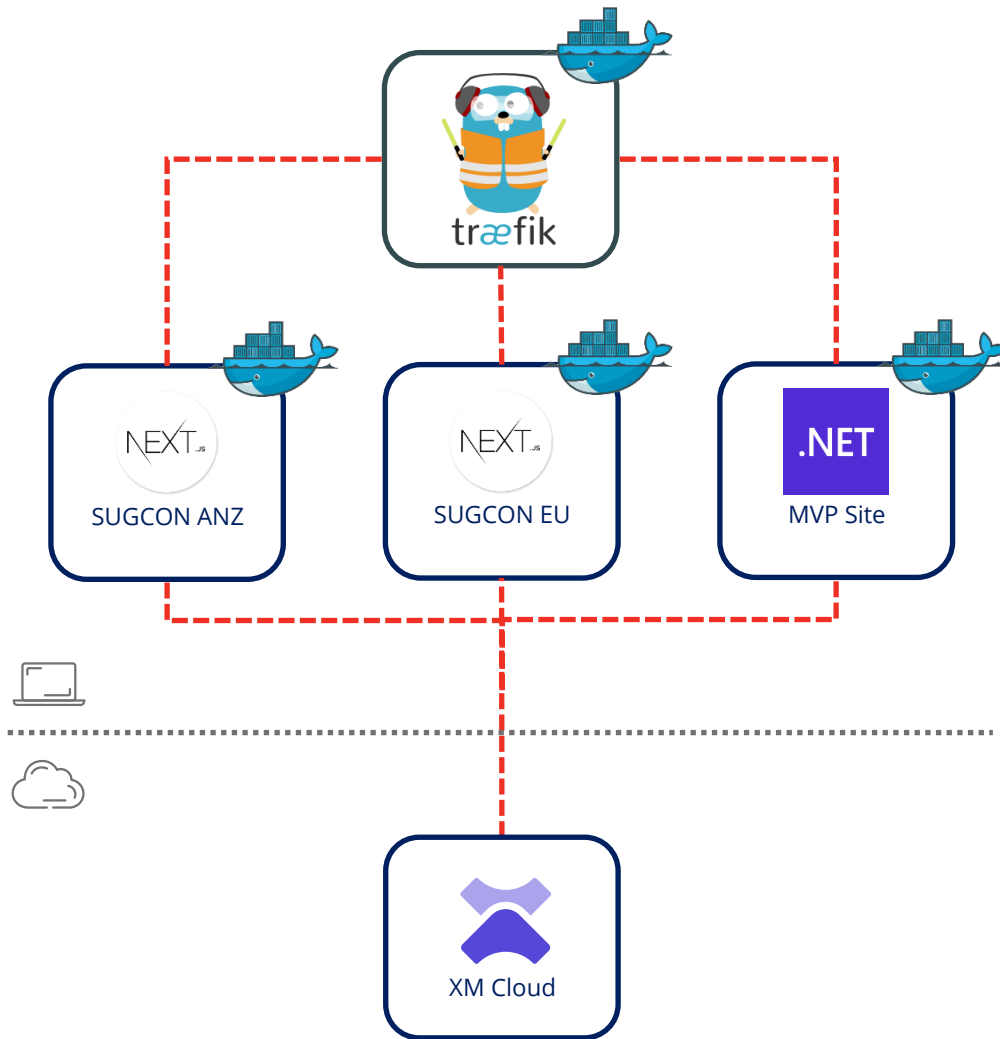


Full Local Development

- Running everything containers locally
- Very similar to XM v10 development – but leaner!
- Appealing for traditional Sitecore (.NET) developers in the team.
- Less appealing for JS developers not familiar with Sitecore development history.
- Requires Windows machine



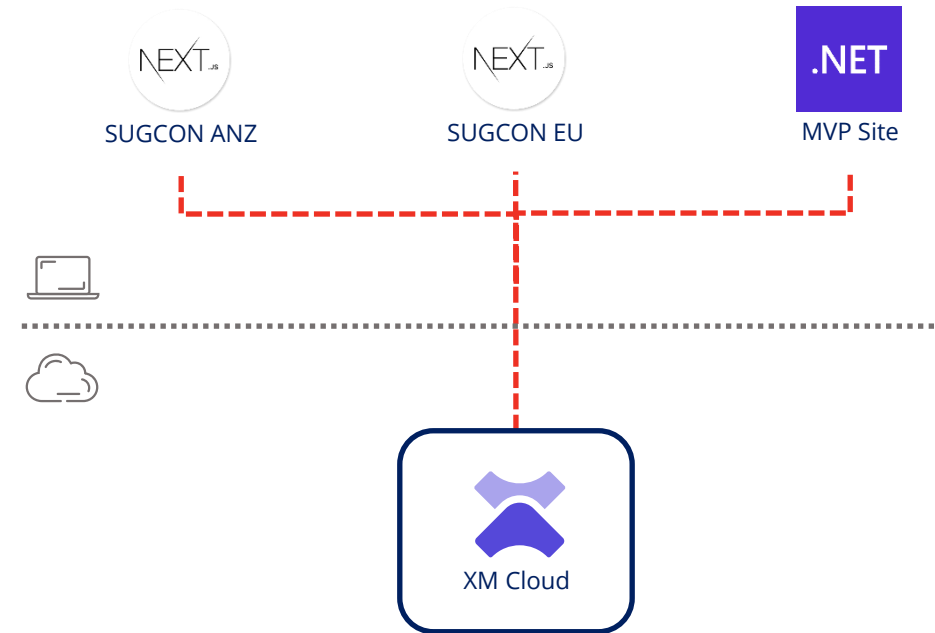
Edge Development with Docker



- Run all heads locally against Experience Edge
- Appealing for both .NET & JS developers in the team.
- Shared environment has the possibility to introduce issues in larger teams.
- Test prod issues really easily.
- Good if you want to smoke test all heads at once.
- Requires Windows machine
- No Experience Editor

Edge Development without Docker

- Run individual heads locally against Experience Edge
- Appealing for both .NET & JS developers in the team
- Shared environment has the possibility to introduce issues in larger teams
- Test prod issues really easily
- Super fast developer cycles
- Use OS of choice
- No Experience Editor

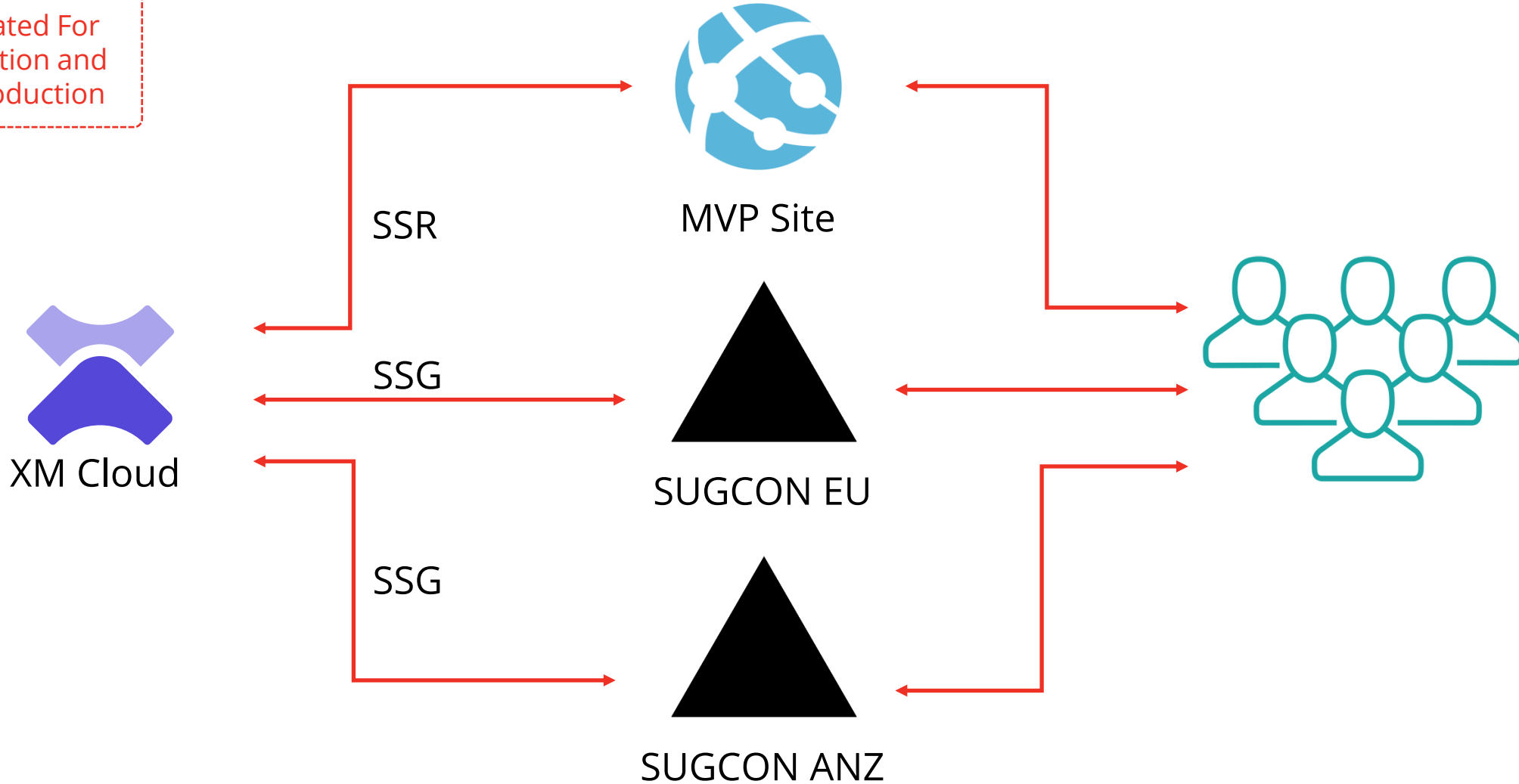


Deployment Flow

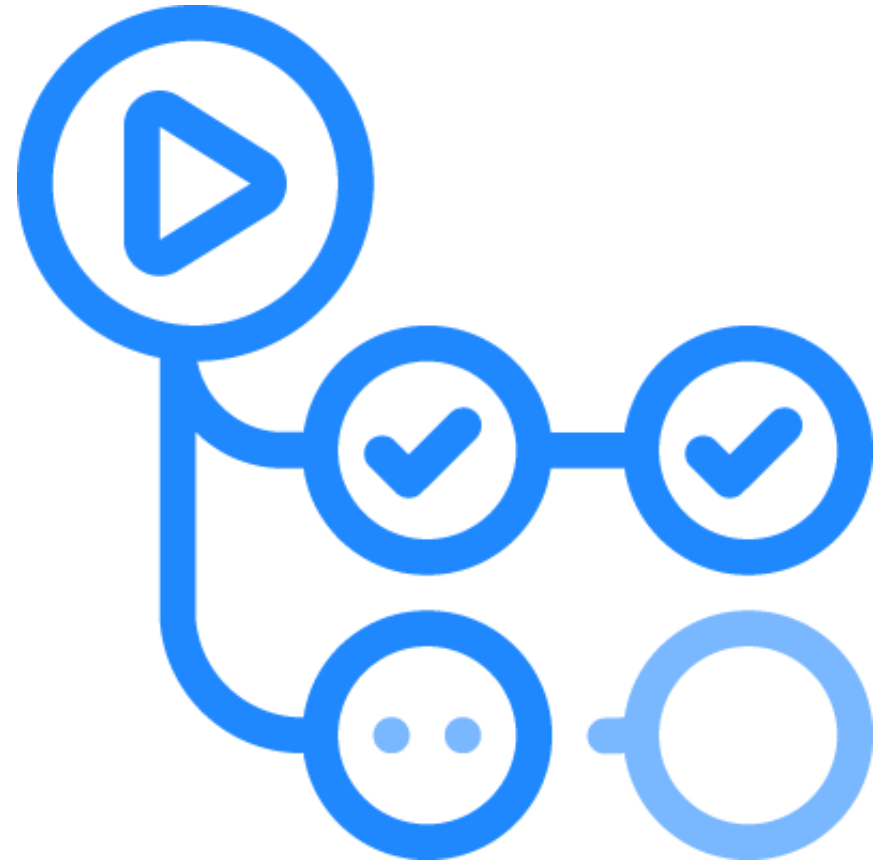


Target Architecture

Replicated For
Production and
Non-Production



- Built using GitHub Actions
- Started with single pipeline – too inefficient!
- Split pipeline out by target system
 - *Deploy_XM_Cloud.yml*
 - *Deploy_MVP.yml*
 - *Deploy_SUGCON_EU.yml*
 - *Deploy_SUGCON_ANZ.yml*



- XM Cloud opens up a variety of development approaches
 - Use the best development language for your use case!
- Super simplified architecture compared to v10
- XM Cloud opens a variety of deployment approaches
 - Use the best hosting platform & CI/CD tooling for your use case!
- Checkout the repo and follow our progress
 - <https://github.com/Sitecore/XM-Cloud-Introduction>

Questions?

I am a proud community member! Please contact me on the following handles:



@RobEarlam

sitecorechat.slack.com



@RobEarlam

[twitter](https://twitter.com/RobEarlam)



Rob Earlam

sitecore.stackexchange.com

Deloitte.
Digital

Thank you!

Dataweavers

Aceik

 **espire**TM
THE ABILITY TO DREAM, THE WILL TO DO

JUST AFTER
MIDNIGHT

P!NG WORKS