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Consuming an Interface



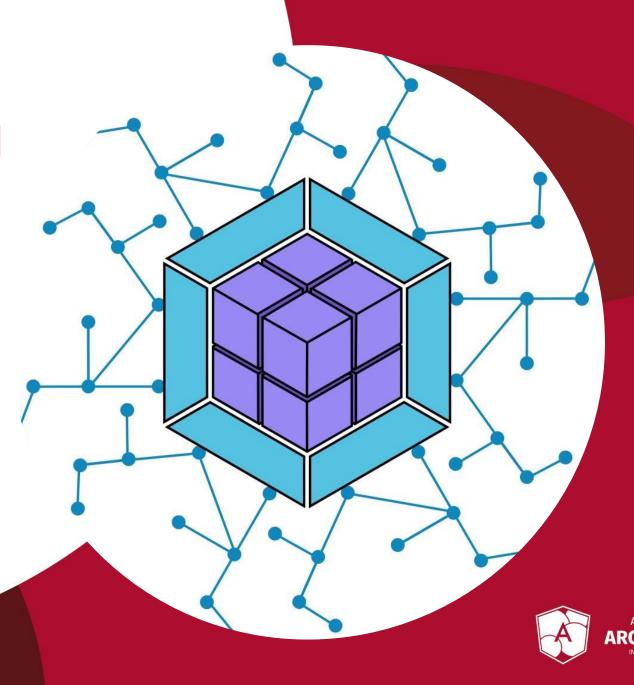


How to Implement a Plugin-System with Angular?





How to Load Separately
Compiled and Deployed
Code (Plugins)?



#### Contents

#1: Module Federation 101

#2: Plugin Systems

#3: A/B Testing #4:
Build
Performance

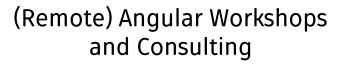


### About me...



#### Manfred Steyer, ANGULARarchitects.io







Google Developer Expert for Angular



Trusted Collaborator in the Angular Team



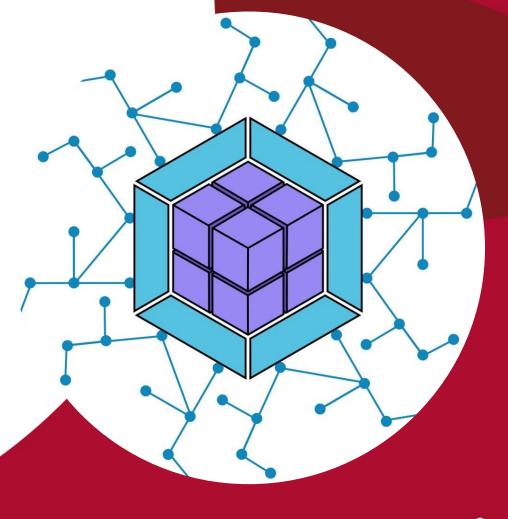






http://angulararchitects.io

**#1: Webpack 5 Module Federation 101** 





How to load separately

compiled code?



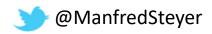
### Idea

const Component = await import('http://other-app/xyz')



### Webpack 5 Module Federation

```
Host
                                            Remote
import('mfe1/Cmp')
                                  // Expose files in
// Maps Urls in
                                  // webpack config
// webpack config
                                  exposes: {
remotes: {
                                    './Cmp': './my.cmp.ts'
→ mfe1: "http://..."
```



#### How to Share Libs?

```
Host
shared: [
 "@angular/core", "..."
```

```
Remote
shared: [
 "@angular/core", "..."
```

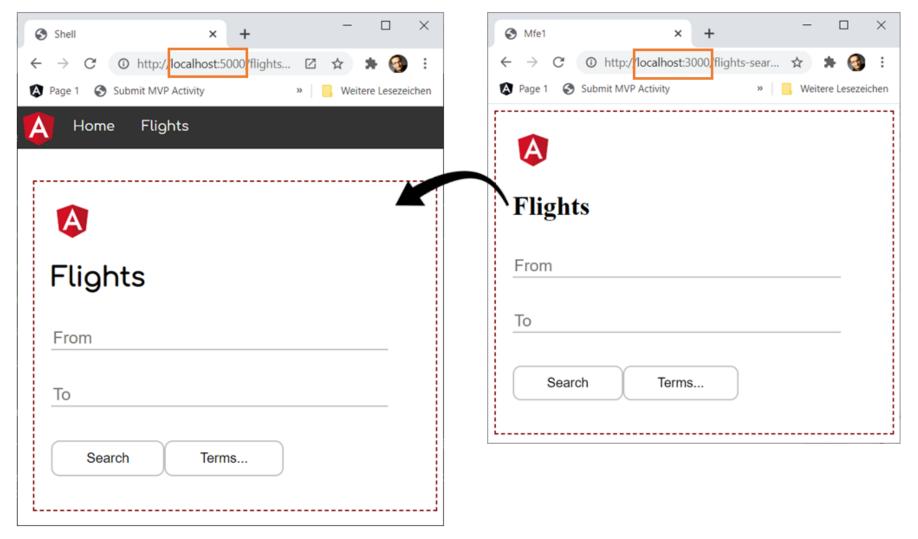


# **Getting Started**

- 1) npm i @angular-architects/module-federation -D
- 2) ng g@angular-architects/module-federation:init
- 3) Adjust generated configuration
- 4) ng serve



### Great Deal for Micro Frontends!





**#2: Plugin Systems**with Module Federation



What if I don't know my

Plugins upfront?



## Dynamic Module Federation

```
Host
import('mfe1/Cmp')
remotes: {
 mfe1: "http://..."
```

```
Remote
exposes: {
 Cmp: './my.cmp.ts'
```



## Dynamic Module Federation

```
Host
import('mfe1/Cmp')
remotes: {
```

```
Remote
exposes: {
 Cmp: './my.cmp.ts'
```

## Dynamic Module Federation

```
Host
loadRemoteModule({
  type: 'module',
  remoteEntry: 'http://...',
  exposedModule: './Cmp'
remotes: {
```

```
Remote
exposes: {
  Cmp: './my.cmp.ts'
```



# DEMO



#3: A/B Testing



# DEMO

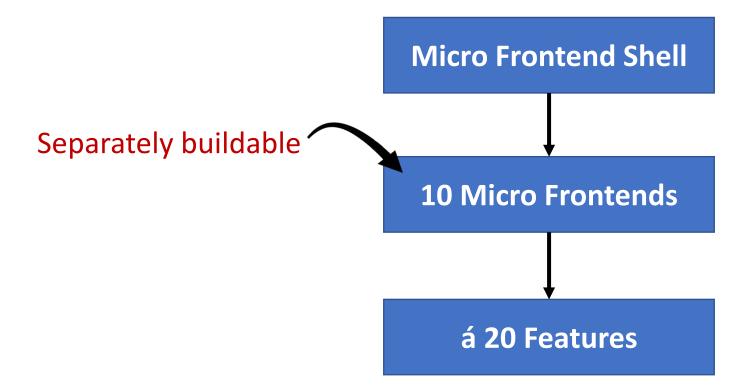


**#4: Build Performance** 

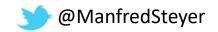




## Setting



200 Features in total!



## **Tooling & Generator**

https://nrwl.io/nx







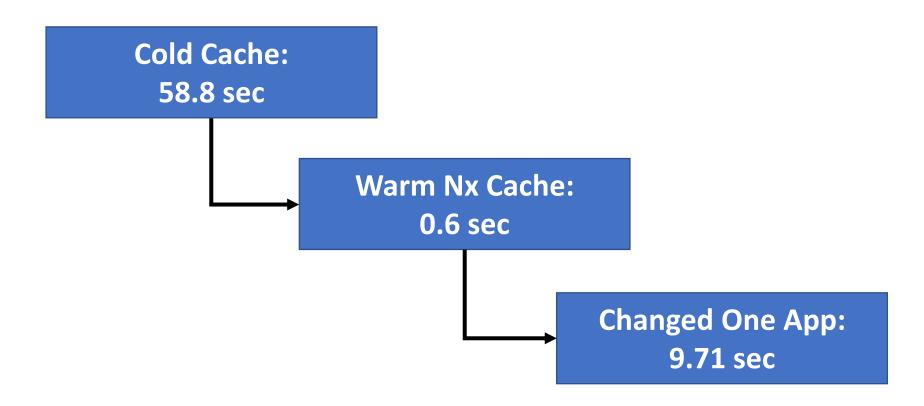


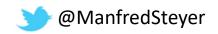


## Smart, Fast and Extensible Build System



### Results





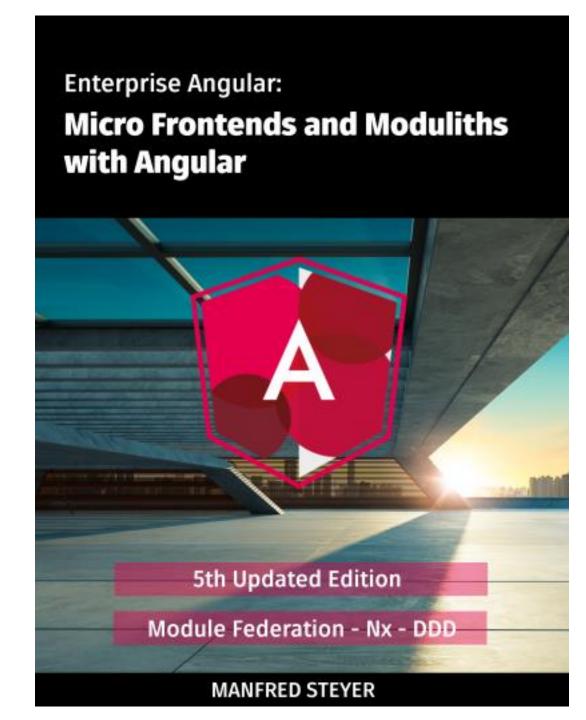
# DEMO



## Free eBook (5th Edition)

Module Federation & Nx

ANGULARarchitects.io/book



### Conclusion

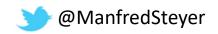
Loading
Separately
Deployed Code

Micro Frontends

Plugin Systems

A/B Testing

Build Performance





### Contact and Downloads

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Slides & Examples



Remote Company Workshops and Consulting

http://angulararchitects.io