

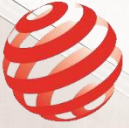
DevOps

Tracability, automation & measurements

Mathias Rönnlund, Roy Suomalainen

Jari Rinta-Korkeamäki, Oskari Kurkela

MIRKA

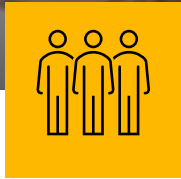


reddot award 2018
best of the best



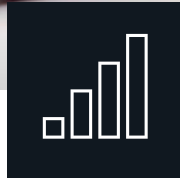
Construction and Decoration - CD

- The CD sector includes all sanding applications for professional decorators and builders.
- Time is money. With our dust-free solutions and award-winning tools, you can easily move to the next project without spending too much time cleaning up afterwards.
- We can help you transform every working environment into a good day at work.



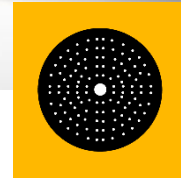
People

We are almost 1500 people working globally for Mirka. Our dedicated experts work in sales, production, R&D, customer service etc.



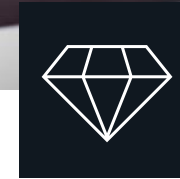
Finance

Our turnover has developed very well, reaching 354M€ in 2021. Mirka is a part of the KWH Group.



Sectors

Our products and solutions are used in collision repair, transport, construction & decoration, wood, industry and precision industry sectors.



Values

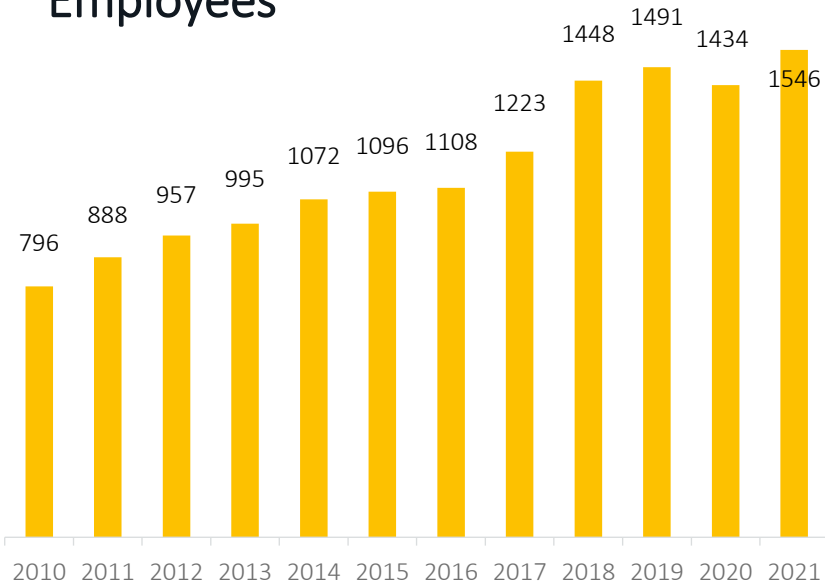
We are responsible, committed, innovative and respectful. We create sustainable solutions that are at the forefront of innovation.

Success driven by people

- Our employees have an essential and active role in creating success. An engaged workforce is critical, since success is created from competent and motivated co-workers.
- We continuously develop the skills of our employees to support future success. Leadership is important on all levels in the company.



Employees



Mirka Worldwide

Through our daughter companies all over the world, we can meet and serve our customers – wherever they are.

What we'll cover



Traceability



Automation



Measurements



Demos

What we won't cover

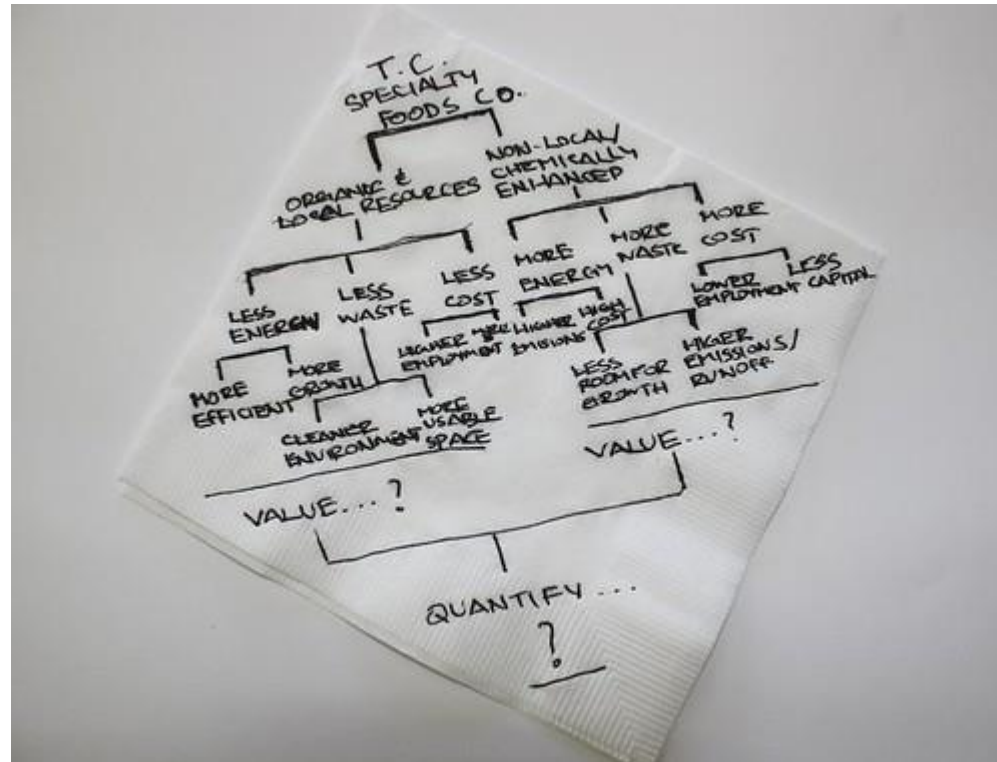


Methodologies



Tools

Why did Mirka start doing this?



Where did we start?



Traceability

Preplanning [ⓘ] 32 Todo [ⓘ] 28 Development [ⓘ] 8/5 Team testing [ⓘ] 3/10 Waiting for deployment to test [ⓘ] 4/10 Mirka test [ⓘ] 10

The screenshot displays a Jira board with a Kanban workflow. The columns represent different stages of the development process: Preplanning (32 tasks), Todo (28 tasks), Development (8/5 tasks), Team testing (3/10 tasks), and Mirka test (4/10 tasks). A context menu is open over a task in the Development column, showing options such as Open, Edit title, Move to iteration, Add Task, Add Test, Delete, Column, New branch..., 7pace Timetracker, and Add to Portfolio Plan.

Traceability

Mirka.com > Release-1.13.0-512

Pipeline Variables History | + Deploy Cancel Refresh Edit ...

Release

Continuous deployment

for ● Tomi Jäntti
9/5/2022, 3:23 PM

Artifacts

_Mirka.com ⚡

20220905.4

release/1.13.0

Stages

Test

✔ Succeeded

on 9/5/2022, 4:06 PM

Prod

Not deployed

Prod

Not deployed

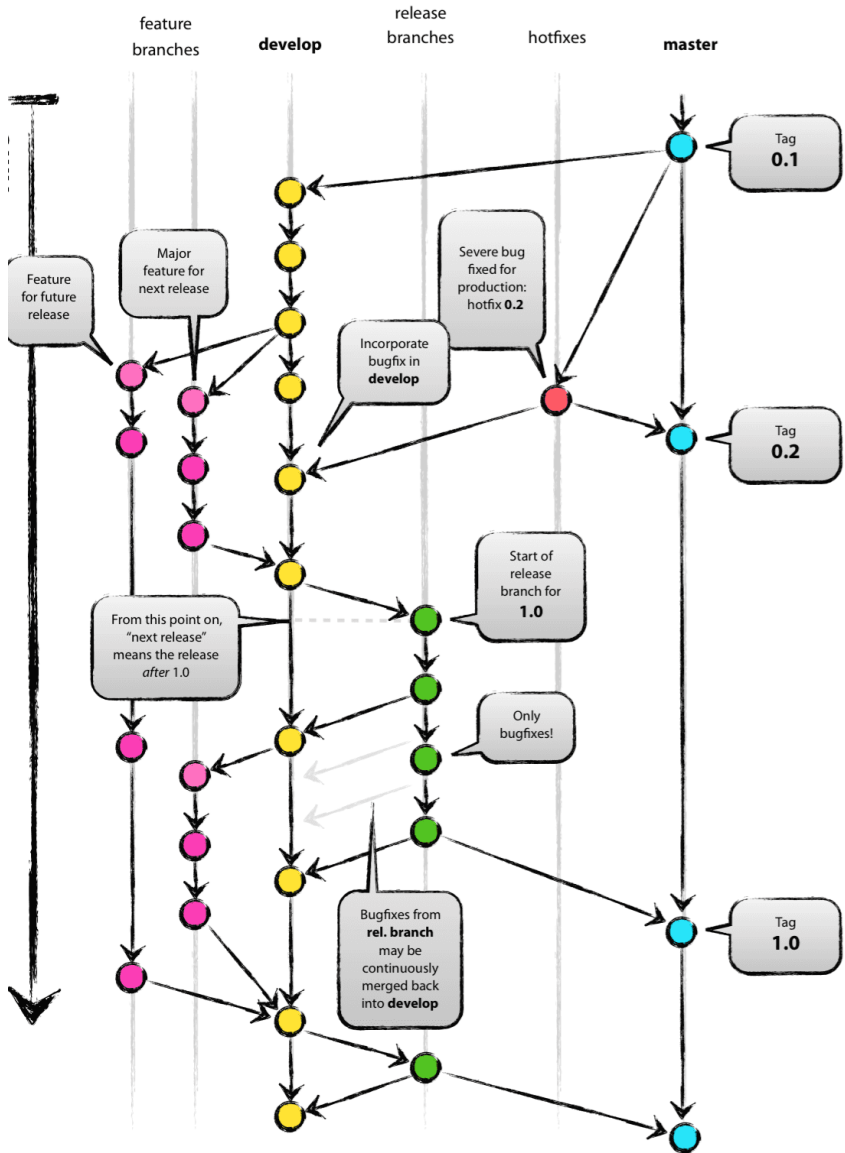
Summary Commits Work Items

Difference in work items ⓘ

Showing changes compared to **Release-1.11.0-495** (Previous deployment) | [Change](#)

_Mirka.com (86 work items) ^

Id	Type	Title
19290	User ...	Suggest local site based on IP
20846	User ...	Testing Lionbridge content translation
20903	User ...	Products added to cart should have links to PDP
20487	User ...	Handling the naming of shared cookies
20120	User ...	List of suitable materials
20119	User ...	List of applications
14369	User ...	Update .NET version
8670	User ...	Add product to cart
8671	User ...	Edit shopping cart
8954	User ...	Product price
9290	User ...	Product availability - Stocks



Repositories

- Gitflow
- Trunk based

Pull request

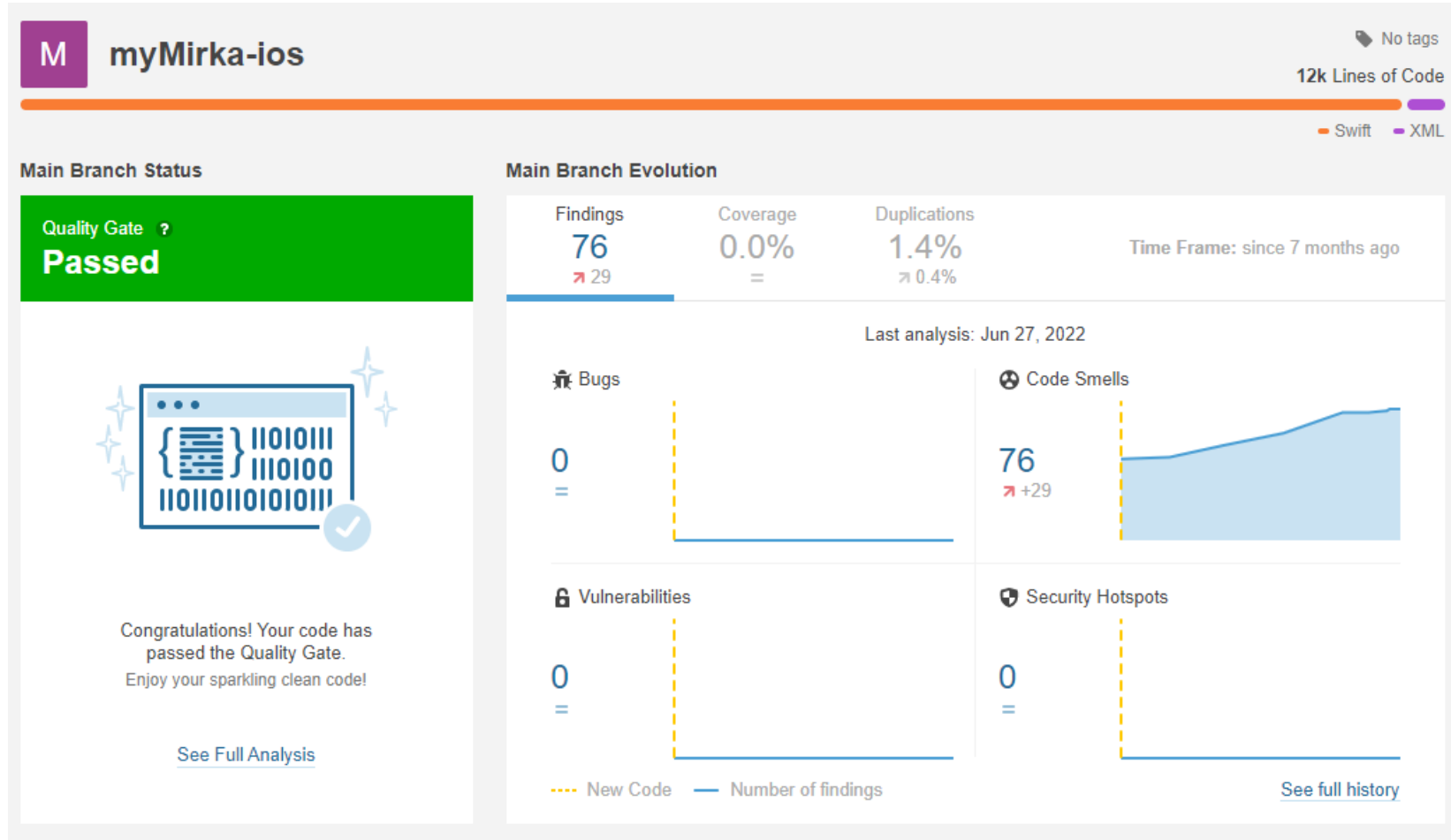
Two pipelines

Pipelines	
Recent	All
Runs	
All pipelines	
Name	
✓	Checkout PR #20220902.4 • 20706 quick session storage
✓	Checkout #20220905.1 • Merged PR 14956: 20706 quick session storage
✓	EpiServer Content Hub #20220906.1 • Merged PR 14935: Recrutee
✓	Mirka.com PR #20220906.5 • ip api
✓	Mirka.com #20220905.4 • Merged PR 14988: 19290 test ip endpoint

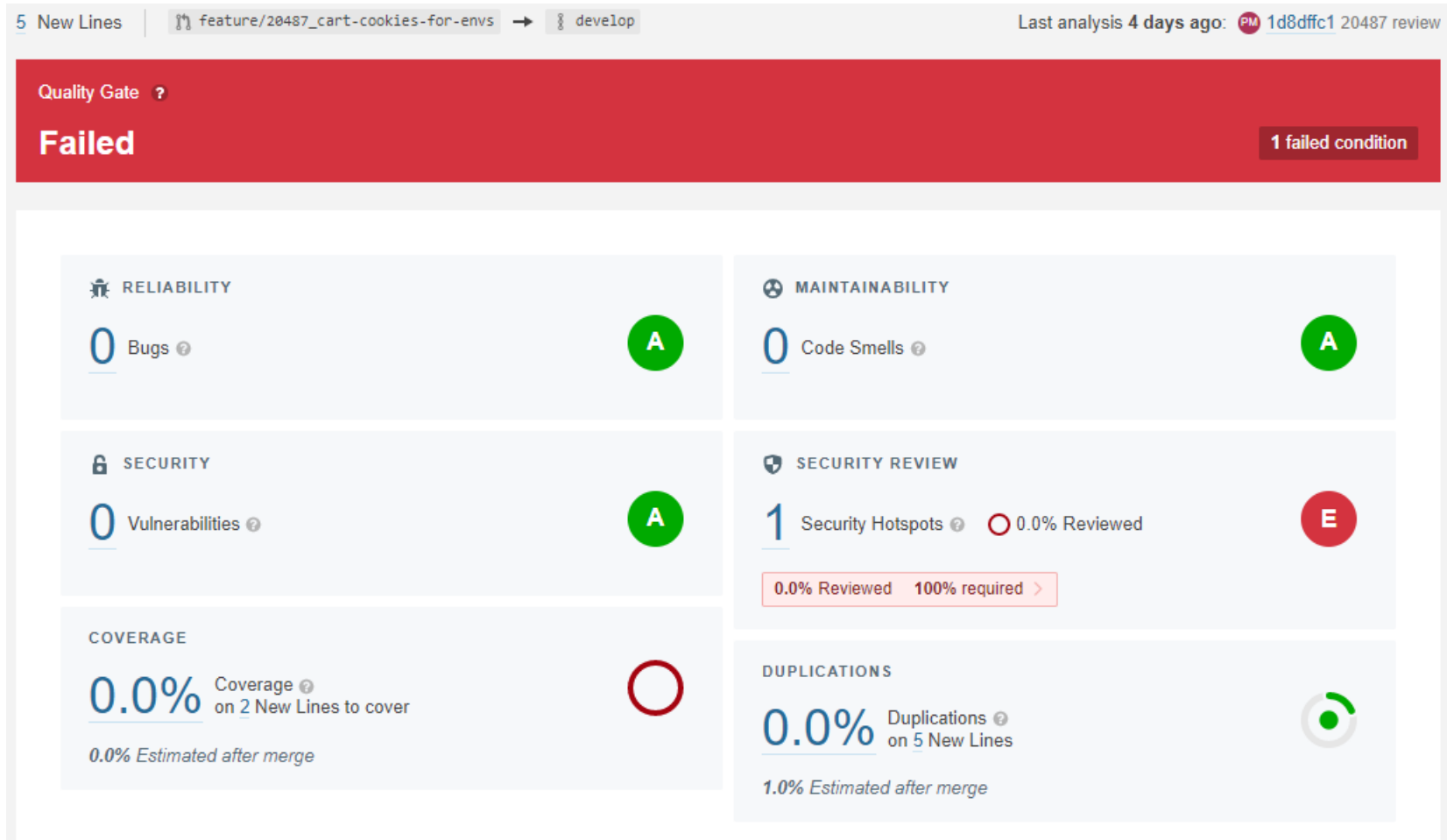
Steps

✓	Job	2m 10s
✓	Initialize job	4s
✓	Checkout EpiServerCMS@refs/pul...	6s
✓	Prepare sonarcloud analysis	2s
✓	dotnet build Debug	39s
✓	Run tests	23s
✓	Run sonarcloud analysis	52s

Static code analysis



Static code analysis



Static code analysis

Filters Assigned to me All Status To review

Security Hotspots Reviewed 0.0%

1 Security Hotspots to review

Review priority: LOW

Insecure Configuration 1

Make sure creating this cookie without setting the 'Secure' property is safe here.

TO REVIEW

1 of 1 shown

Make sure creating this cookie without setting the 'Secure' property is safe here.

Adding cookies without the "secure" flag is security-sensitive [csharpsquid:S2092](#)

[Add Comment](#) [Get Permalink](#)

Category **Insecure Configuration**

Review priority LOW

Assignee **Not assigned**

Status: To review
This Security Hotspot needs to be reviewed to assess whether the code poses a risk.

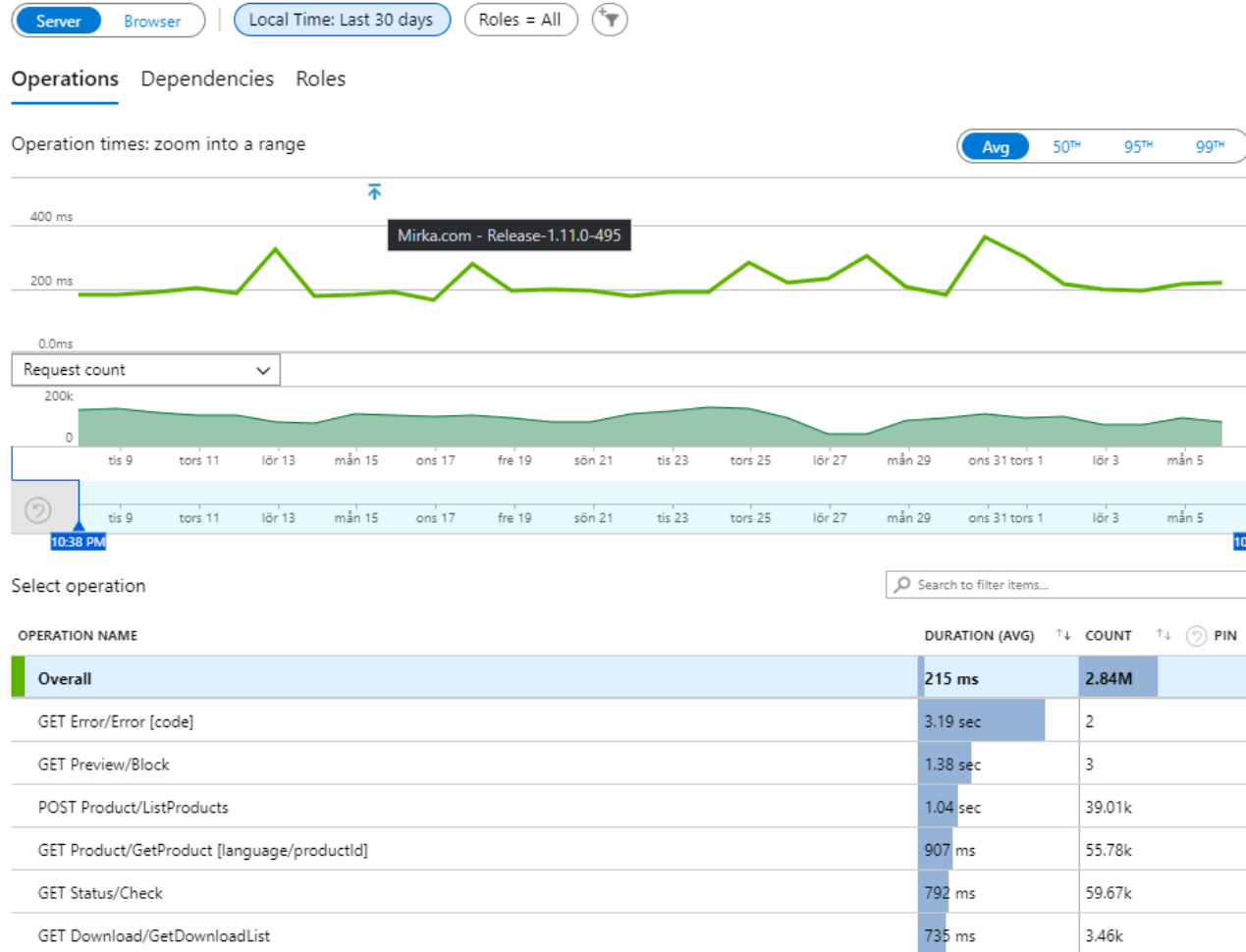
MirkaCom.Web/Controllers/Api/CartController.cs

```
228     {
229         cartCookieOptions.Domain = cookieDomain;
230     }
231
232     #if DEBUG
233     cartCookieOptions.Secure = false;
234     #endif
235
236     HttpContext.Response.Cookies.Append(cookieName, id.ToString(), cartCookieOptions);
237 }
238
```

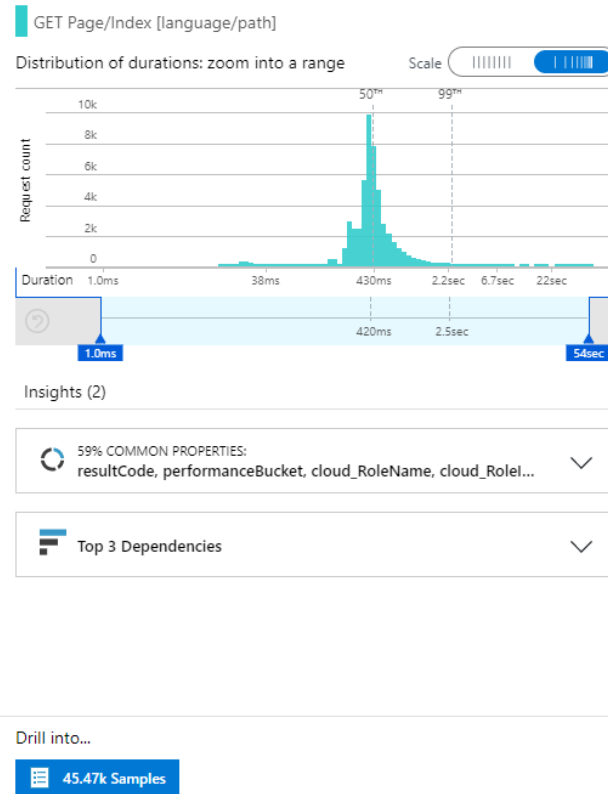
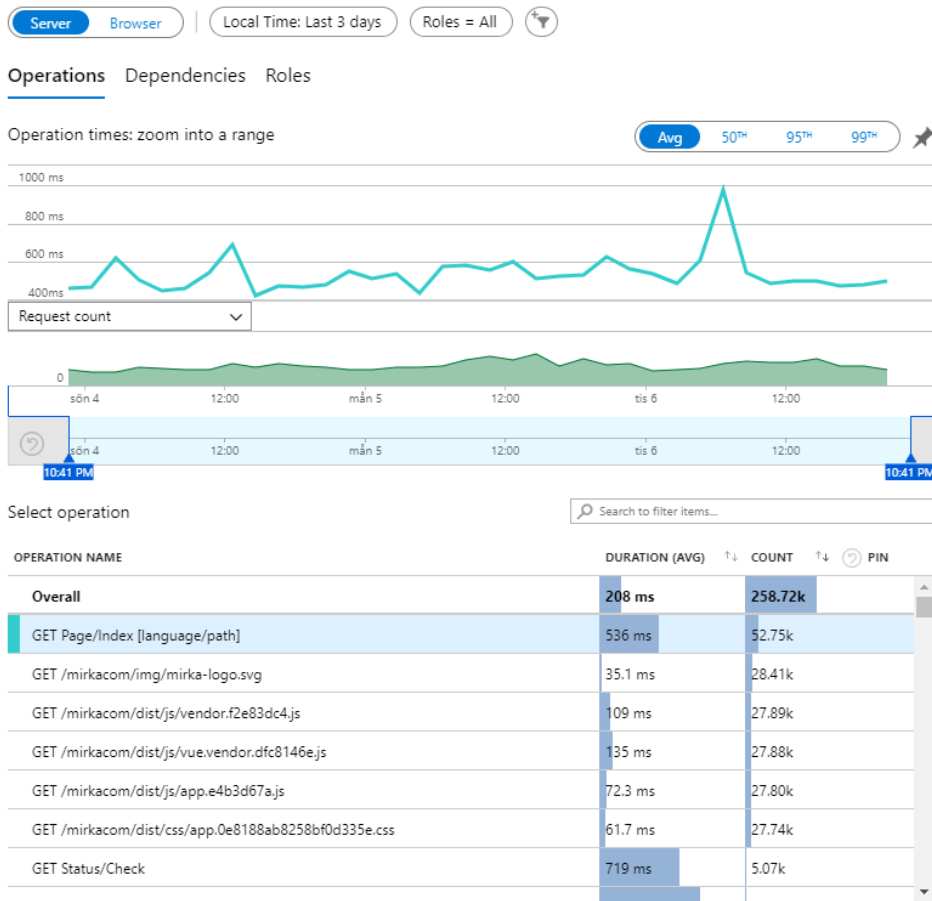

UI test



Measurement



Measurement



» Select a sample operation

Filtered on

Operation name == GET Page/Ind...

client_Type !=...

Sampling is in effect for your telemetry. This reduces the number of telemetry items you see here. [Learn more.](#)

Suggested

2022-09-05 16.49.40
GET Page/Index [language/path]
Duration: 958.6 ms Response code: 200

All
Sort by ⌵
Relevance

2022-09-05 16.49.40
GET Page/Index [language/path]
Duration: 958.6 ms Response code: 200

2022-09-05 13.03.07
GET Page/Index [language/path]
Duration: 1.6 s Response code: 200

2022-09-05 18.07.08
GET Page/Index [language/path]
Duration: 259.2 ms Response code: 200

2022-09-05 17.31.48
GET Page/Index [language/path]
Duration: 422.6 ms Response code: 200

2022-09-05 10.19.20
GET Page/Index [language/path]
Duration: 412.8 ms Response code: 200

2022-09-04 21.33.41
GET Page/Index [language/path]
Duration: 290.7 ms Response code: 200

2022-09-05 19.46.16
GET Page/Index [language/path]

Measurement

Suggested

2022-09-05 16.49.40
 GET Page/Index [1language/path] →
 Duration: 958.6 ms
 Response code: 200

All

Sort by ⌵
 Relevance ▾

2022-09-05 16.49.40
 GET Page/Index [1language/path] →
 Duration: 958.6 ms
 Response code: 200

2022-09-05 13.03.07
 GET Page/Index [1language/path] →
 Duration: 1.6 s Response code: 200

2022-09-05 18.07.08
 GET Page/Index [1language/path] →
 Duration: 259.2 ms
 Response code: 200

2022-09-05 17.31.48
 GET Page/Index [1language/path] →
 Duration: 422.6 ms
 Response code: 200

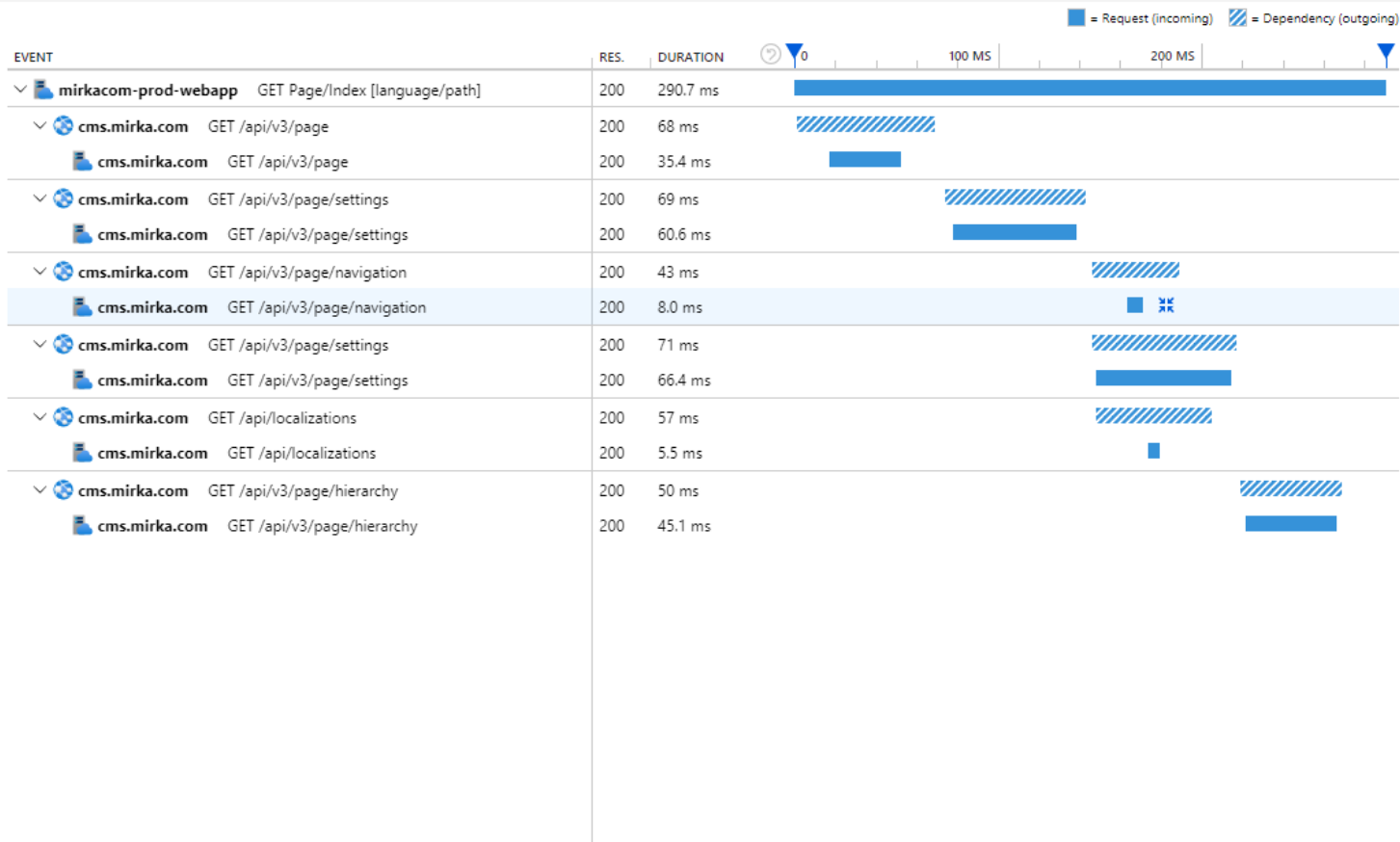
2022-09-05 10.19.20
 GET Page/Index [1language/path] →
 Duration: 412.8 ms
 Response code: 200

2022-09-04 21.33.41
 GET Page/Index [1language/path] →
 Duration: 290.7 ms
 Response code: 200

2022-09-05 19.46.16
 GET Page/Index [1language/path] →
 Duration: 1.8 s Response code: 200

End-to-end transaction








Operation ID: d7291eced8097c40b32ce43e56c7e6c4

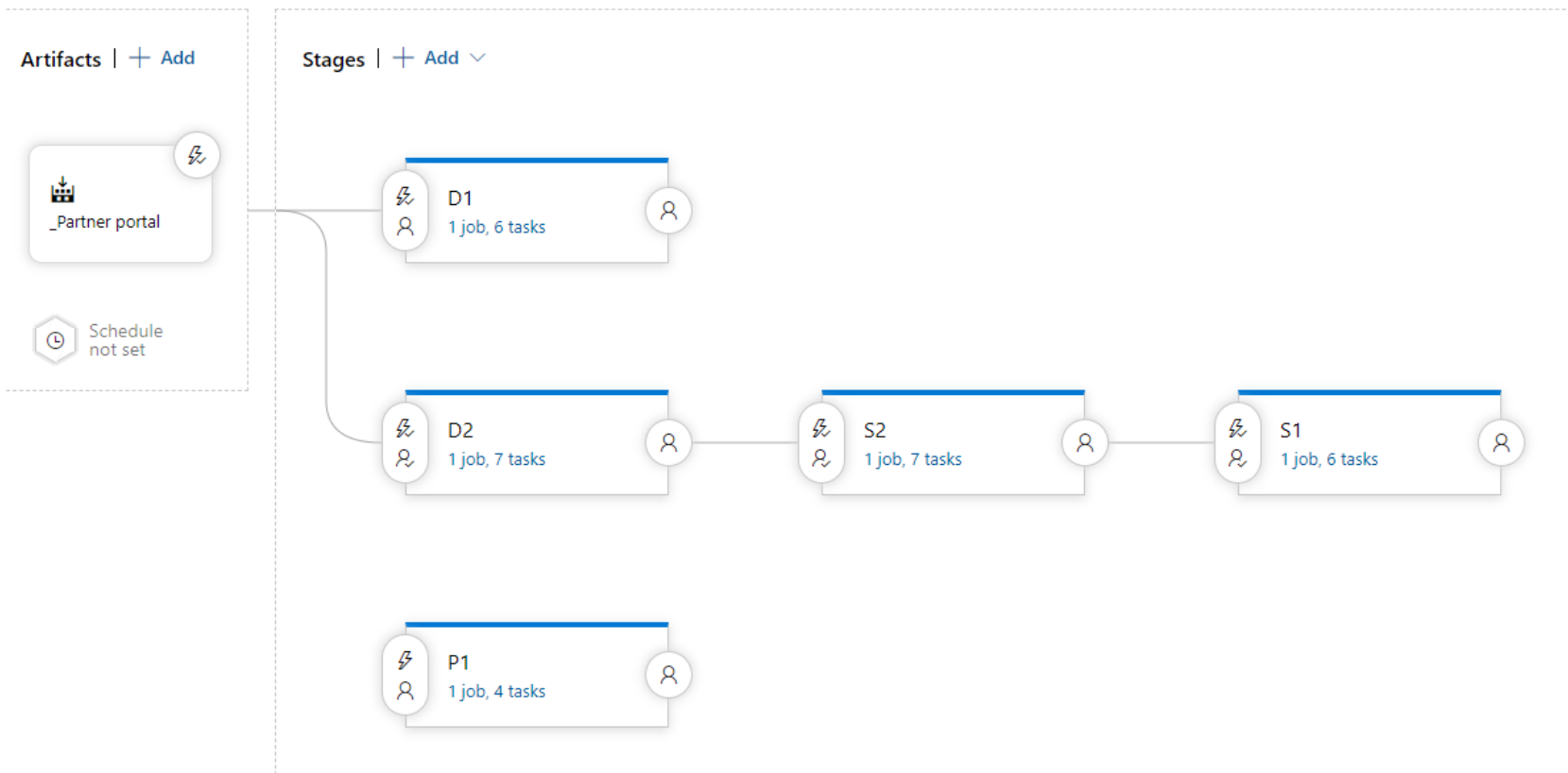


Dependency management



Deployment

Releases	Created	Stages
 Release-1.13.0-512 📄 20220905.4 📄 release/1.13.0	9/5/2022, 3:23:26 PM	<input checked="" type="checkbox"/> Test <input type="checkbox"/> Prod
 Release-1.12.0-508 📄 20220829.1 📄 release/1.12.0	8/29/2022, 9:18:15 AM	<input type="checkbox"/> Test <input type="checkbox"/> Prod
 Release-1.12.0-504 📄 20220826.5 📄 release/1.12.0	8/26/2022, 12:08:35 PM	<input checked="" type="checkbox"/> Test <input type="checkbox"/> Prod
 Release-1.12.0-503 (abandoned) 📄 20220826.5 📄 release/1.12.0	8/26/2022, 11:38:59 AM	<input checked="" type="checkbox"/> Test <input type="checkbox"/> Prod
 Release-1.11.0-495 📄 20220805.2 📄 release/1.11.0	8/5/2022, 3:40:49 PM	<input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Prod
 Release-1.10.0-489 📄 20220728.2 📄 release/1.10.0	7/28/2022, 10:08:37 AM	<input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Prod
 Release-1.9.0-481 📄 20220721.2 📄 release/1.9.0	7/21/2022, 12:14:28 PM	<input checked="" type="checkbox"/> Test <input checked="" type="checkbox"/> Prod



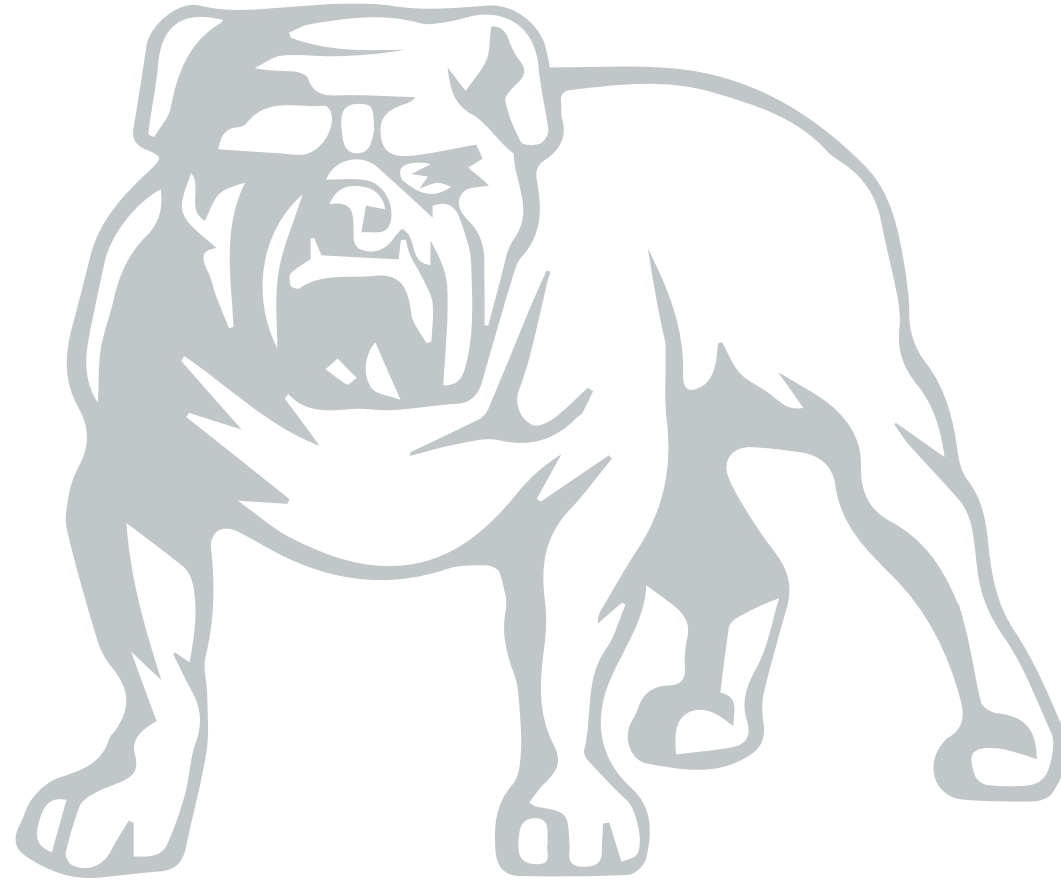
Infrastructure as code

- az deployment sub create --location westeurope --name FrontendDeployment --template-file \$(System.ArtifactsDirectory)/_Mirka.com/bicep/main.bicep --parameters environment=prod appConfiguration="\$(AppConfiguration)"

appservice.bicep

[Contents](#) [History](#) [Compare](#) [Blame](#)

```
1 param environment string
2 param appConfiguration string
3 param keyVault string
4
5 resource appInsights 'Microsoft.Insights/components@2020-02-02' = {
6   name: 'MicrosoftInsights-${environment}'
7   location: resourceGroup().location
8   kind: 'web'
9   properties: {
10     Application_Type: 'web'
11   }
12 }
13
14 resource appServicePlan 'Microsoft.Web/serverfarms@2021-01-15' = {
15   name: 'MicrosoftInsights-${environment}-appservice'
16   location: resourceGroup().location
17
18   properties: {
19     reserved: true
20   }
21
22   sku: {
23     name: 'S1'
24     tier: 'Standard'
25     size: 'S1'
26     family: 'S'
27     capacity: 1
28   }
29   kind: 'linux'
30
31   dependsOn: [
32     appInsights
33   ]
34 }
```

mirka.com

After Work

