

DevOps Gözlüğünden Yenilikler

Microsoft Azure Dünyasında Son Gelişmeler





Ajanda

- AKS Fleet Manager (Preview)
- Azure Marketplace içinde Kubernetes Apps Desteği
- AKS için Prometheus Desteği
- Azure Deployment Environments
- Microsoft Dev Box
- Microsoft-Postman İşbirliği ile Güçlendirilmiş API Geliştirme Deneyimi
- Azure DevOps için Gelişmiş GitHub Güvenliği
- Visual Studio 2022 17.3
- App Service Yenilikleri



@m3rtyeter



/in/mertyeter



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/azureishlive
/yenimshowto
/TraefikLabsTurkey



/azureishlive
/mshowto
/traefikistanbul

Mert Yeter

Software Architect

360Dotnet



Certified
Traefik
Ambassador



Cloud
Community
Champion (2020)

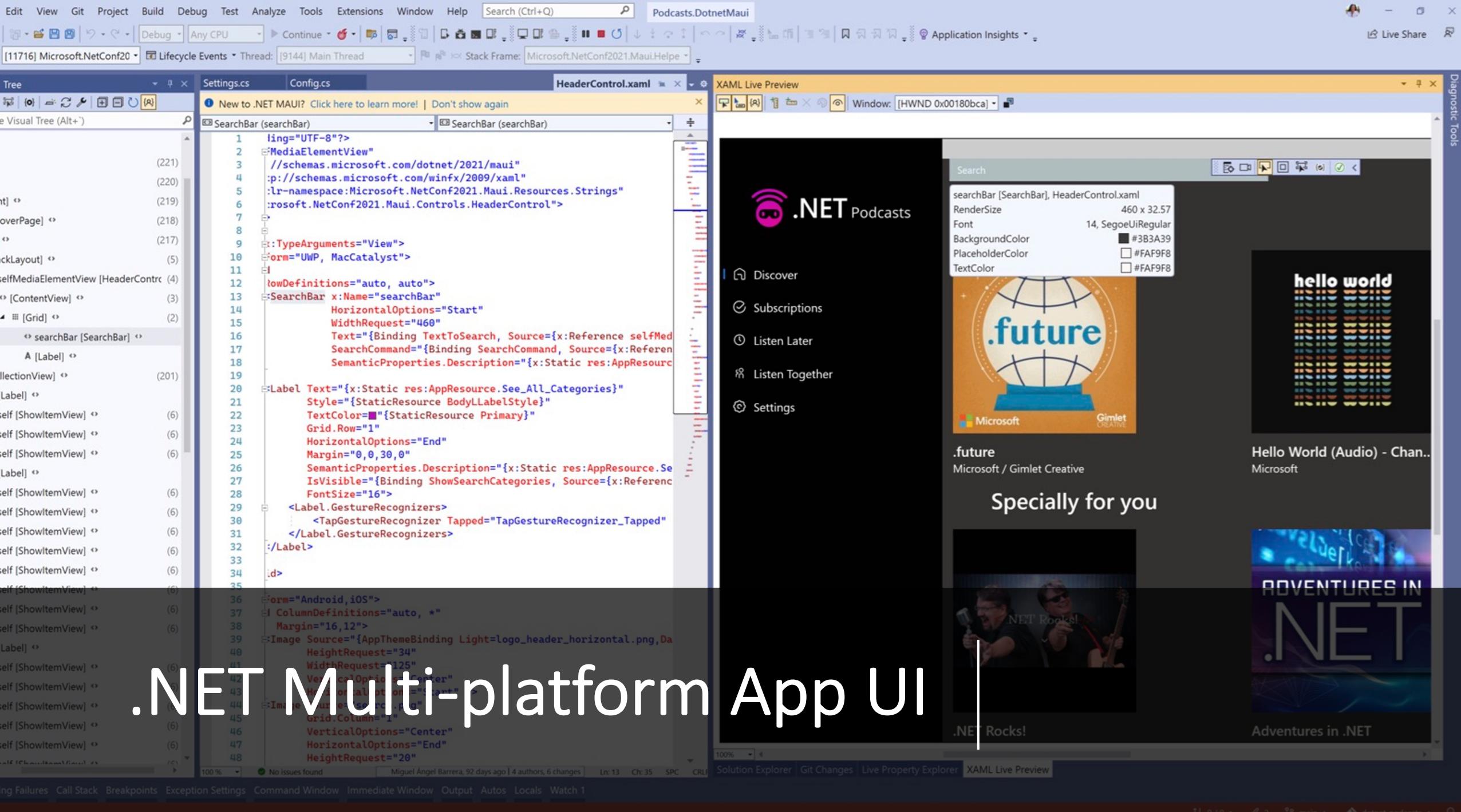


Azure App Service Updates

- **Large SKU** options (64 GB/128 GB/256 GB) to support more demanding workloads with App Service Environment (ASE) v3. This will be generally available in November.
- A **14-day prior notice** of planned platform maintenance in ASE v3 will be in preview in November. Customers will be able to choose a specific time window when platform maintenance occurs.
- **Support for latest versions** of .NET 7, Python 3.10 and 3.11, PHP 8.1, PHP 8.2 and Node 18 helps organizations run their most popular apps on Azure App Service, enabling faster time to market using the latest Azure Cloud capabilities. This will be generally available in November.
- **Go language, natively supported** on Azure App Service for the first time, is now in preview. Developers can now innovate faster using fully managed app platform services for cloud-centric web apps.



Visual Studio 2022 17.3



The screenshot shows a Microsoft Visual Studio IDE and a Microsoft Teams app interface side-by-side.

Visual Studio (Left):

- File, Edit, View, Git, Project, Build, Debug, Test, Analyze, Tools, Extensions, Window, Help** menu bar.
- PRE** icon in the top-left corner.
- Debug** dropdown set to **Any CPU**.
- Process: [21208] NotificationBot.exe** in the status bar.
- Lifecycle Events** tab selected in the tabs bar.
- Thread: [36804] Worker Thread** in the status bar.
- PREVIEW** button in the top-right corner.
- Diagnostic Tools** sidebar open.
- NotificationController.cs** code editor:

```
4  using Microsoft.TEAMS.FX.Conversation;
5  using Newtonsoft.Json;
6
7  namespace NotificationBot.Controllers
8
9      [Route(template: "api/notification")]
10     [ApiController]
11
12     public class NotificationController : ControllerBase
13     {
14         private readonly ConversationBot _conversation;
15         private readonly string _adaptiveCardFilePath = Path.Combine(".", "Resources", "NotificationDefault.json");
16
17         public NotificationController(ConversationBot conversation)
18         {
19             this._conversation = conversation;
20         }
21
22         [HttpPost]
23
24         public async Task<ActionResult> PostAsync(CancellationToken cancellationToken = default)
25         {
26             // Read adaptive card template
27             var string cardTemplate = await System.IO.File.ReadAllTextAsync(_adaptiveCardFilePath, cancellationToken);
28
29             var TeamsBotInstallation[] installations = await this._conversation.Notification.GetInstallationsAsync(cancellationToken);
30             foreach (var TeamsBotInstallation installation in installations)
31             {
32                 // Build and send adaptive card
33                 var string cardContent = new AdaptiveCardTemplate(cardTemplate).Expand();
34
35                 rootData: new NotificationDefaultModel
36                 {
37                     Title = "New Event Occurred!",
38                     AppName = "Contoso App Notification",
39                     Description = $"This is a sample http-triggered notification to {installation.Type}",
40                     NotificationUrl = "https://www.adaptivecards.io/",
41                 };
42
43                 await this._conversation.SendAdaptiveCardAsync(installation.ConversationId, cardContent, cancellationToken);
44             }
45
46             return Ok();
47         }
48     }
```

- Call Stack, Breakpoints, Exception Settings, Command Window, Immediate Window, Output, Autos, Locals, Watch 1** tabs at the bottom.
- No issues found** message in the status bar.

Microsoft Teams (Right):

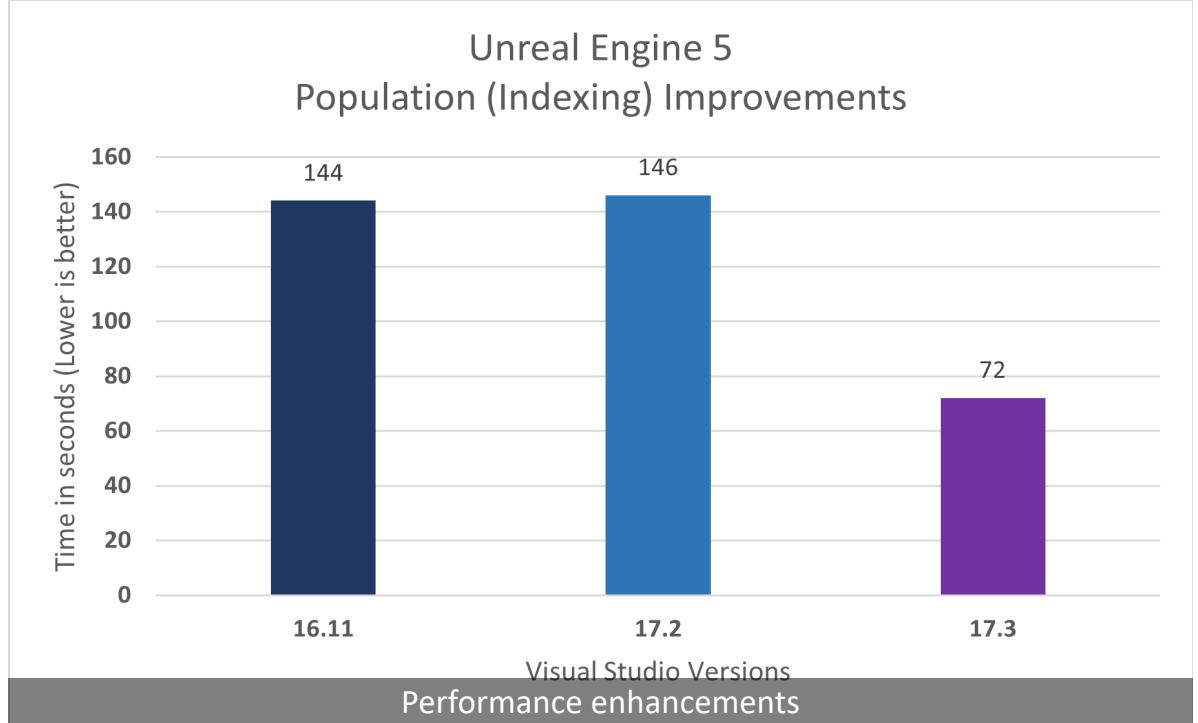
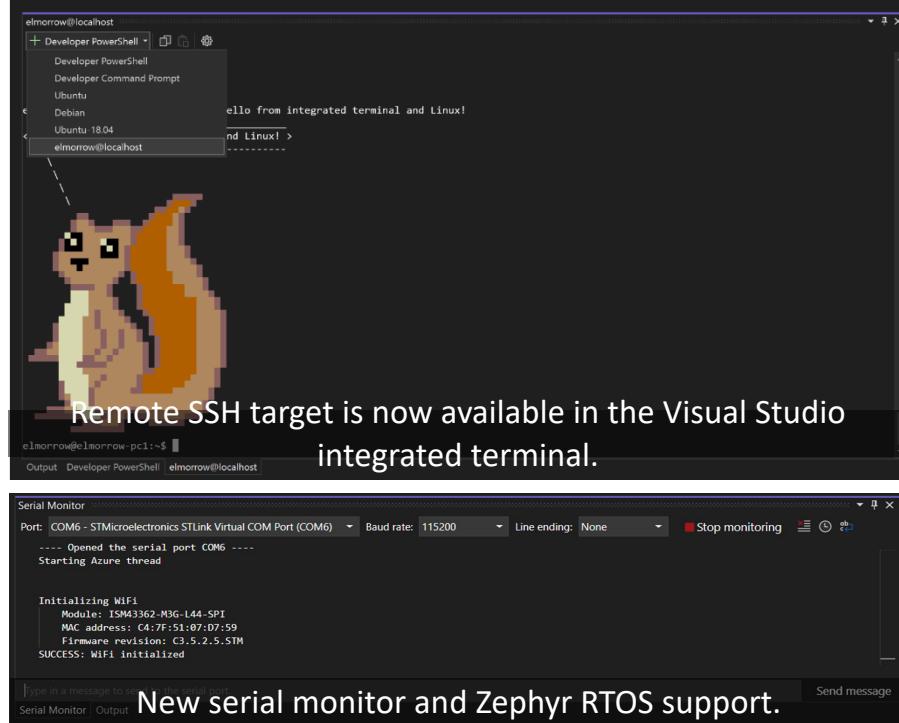
- NotificationBot-local-debug** tab open in a browser window.
- Search** bar at the top.
- Diagnostic Tools** sidebar open.
- Chat** tab selected.
- NotificationBot-local-debug** message from **4:57 PM**:

 - New Event Occurred!**
 - Contoso App Notification**
 - This is a sample http-triggered notification to Person
 - View Details** button.

Text Overlay:

Develop apps for Microsoft Teams

C++ Improvements



File Edit View Git Debug Analyze Tools Extensions Window Help Search Live Share MAIN

What's New?

What's New? X

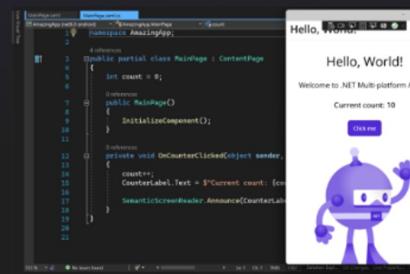
What's New

Welcome

- .NET MAUI
- Show Tabs in Multiple Rows
- Force Run to Cursor
- All-in-one Search
- Reopen Closed Documents
- Azure Container Apps
- Git Line-Staging

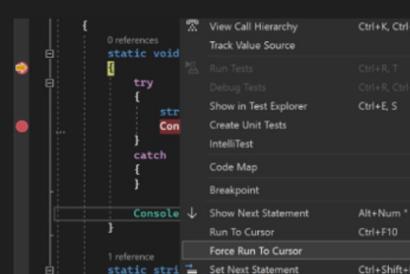
.NET MAUI

.NET MAUI allows you to build natively compiled iOS, Android, macOS, and Windows apps, using C# and XAML, in a single codebase.



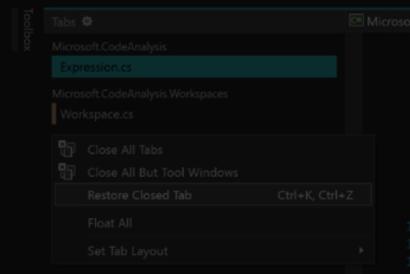
Force Run to Cursor

Run the debugger to the location of your cursor while skipping any existing breakpoints.



Reopen Closed Documents

Use the `Ctrl+Shift+T` (`Ctrl+Shift+R` to map) keyboard shortcut to reopen the last document you've closed by mistake.

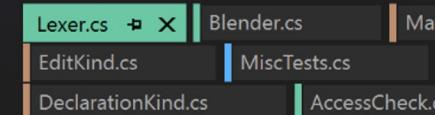


Visual Studio has been updated to 17.3

This update is packed with an array of tools and features to improve every stage of software development. Select a topic to learn what's new.

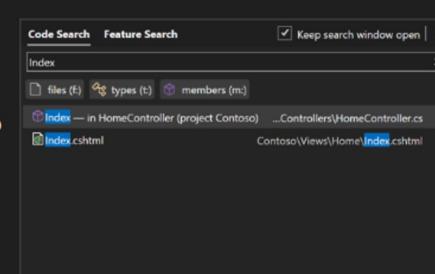
Show Tabs in Multiple Rows

We've added functionality to wrap tabs into multiple rows. Your pinned tabs will still show in a separate row from your unpinned tabs.



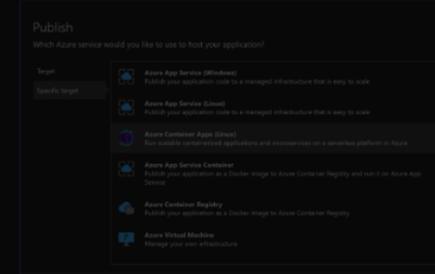
All-in-one Search

The new search experience allows you to search both code and Visual Studio features in one spot.



Azure Container Apps

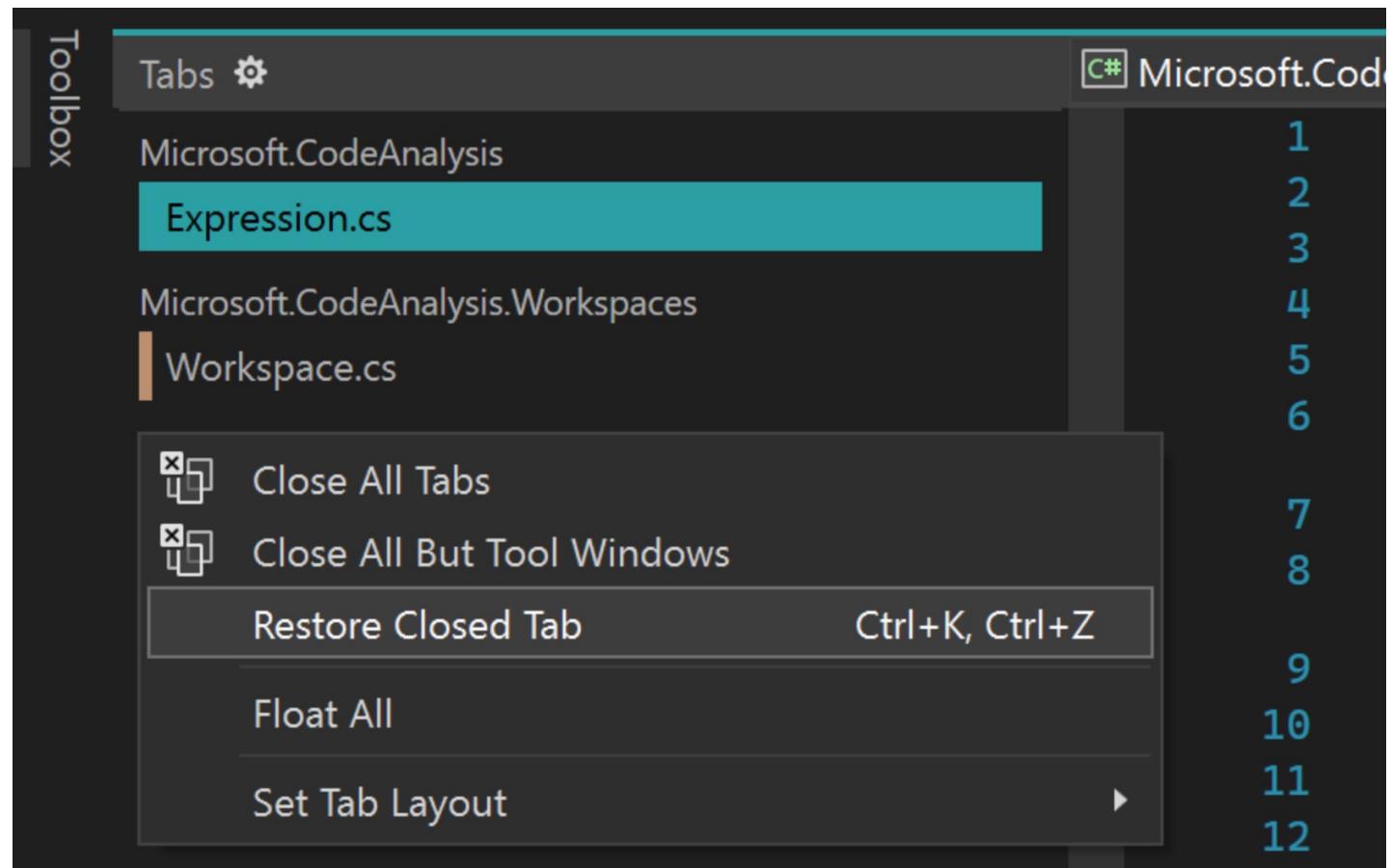
Deploy to Azure Container Apps either on demand (right-click > Publish) or by setting up CI/CD (GitHub Actions)



A screenshot of the Visual Studio Solution Explorer. It shows a list of projects in a tree structure. From left to right, the visible project names are: 'out.razor', 'Application.csproj', 'CodeContracts.csproj', 'global.json', 'docker-compose.yml', 'Infrastructure.csproj', 'IntegrationTests.csproj', 'PublicAPI.csproj' (which has a small warning icon next to it), and 'dotnet-extensions.csproj'. Each project name is preceded by a colored square corresponding to its file type.

```
1 <Project Sdk="Microsoft.NET.Sdk">
2
3   <PropertyGroup>
4     <TargetFramework>net6.0</TargetFramework>
5     <Nullable>enable</Nullable>
6
7     <IsPackable>false</IsPackable>
8   </PropertyGroup>
9
10  <ItemGroup>
11    <None Remove="appsettings.test.json" />
12  </ItemGroup>
13
```

Reopen Closed Documents



Visual Studio 2022 17.3 also adds...

- **Supports Deploying to Azure Container Apps**
- **Live Unit Testing**
- **Git Line-staging**
- **IEnumerable Visualizer**

Enhanced API Developer Experience with the Microsoft- Postman partnership



Microsoft Dev Box

PREVIEW



back-end-dev-box

Project 2X

Windows 11

16 vCPU

64GB RAM

1TB Storage

Add a dev box



Name

front-end-dev-box

Project

Project 2x



Dev box pool

Standard dev box (West US)

4 vCPU 16GB RAM 256GB Storage



[See all pools](#)

GitHub **Codespaces**



Linux



Repos on
GitHub

Cloud native apps
Including: web apps,
APIs, backends



GitHub.com

Operating
system

SCM
Support

Target
workloads

IT
Mgmt.

Microsoft **Dev Box**



Windows



Any version
control system

Any workload
Including: Desktop, IoT,
mobile, games, & more
(Windows or cross-plat)



Endpoint
Manager



Microsoft
Azure

Baki Onur Okutucu

Founder, Solution Architect | Clouderz

onur@clouderz.co.uk

@bakionur

- Microsoft Azure Solutions Architect
- Microsoft MVP (CaD, PowerShell) – 2009'dan beri
- Microsoft Certified Trainer – 2006'dan beri

<https://4sysops.com/members/bakionur-okutucu/>

<https://www.towershell.com>

<https://www.bakionur.com>



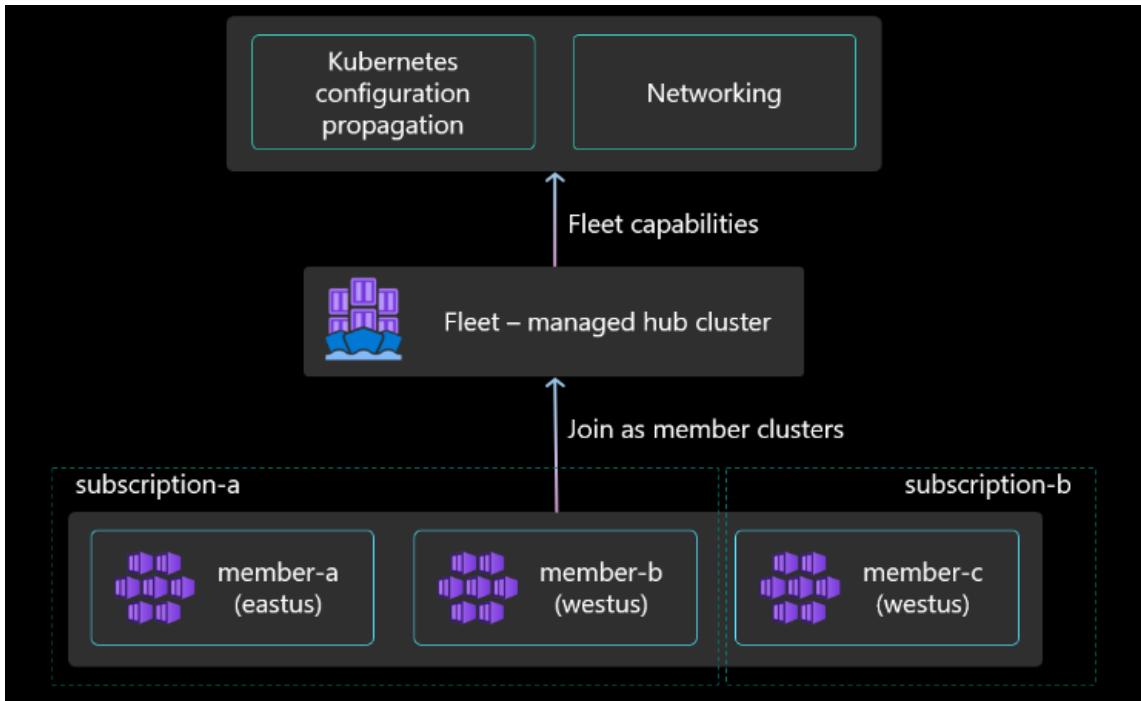
@bakionur



/in/bakionur

AKS Fleet Manager

- Cluster Filosu ve merkezi servis yönetimi
- Filo yönetimi için ayrı bir cluster (hub)
- 20 cluster'a kadar destek (preview için)
- API desteği sayesinde kubectl ile yönetim imkanı

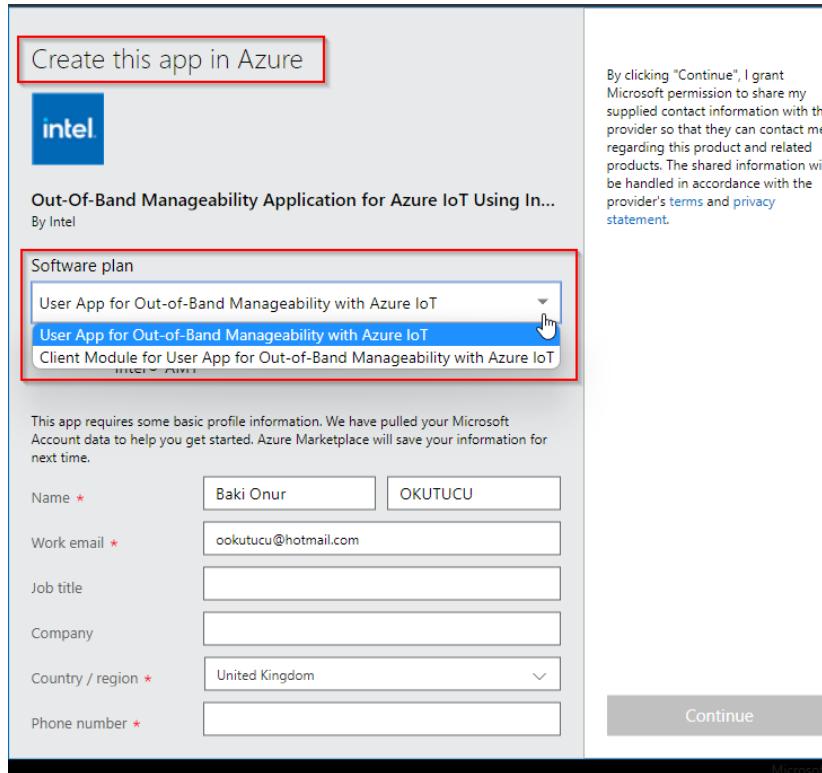


The screenshot shows the "Member clusters" blade in the Azure portal for the fleet "aks-fleet-01". The blade has a header with "aks-fleet-01 | Member clusters" and a "Kubernetes fleet manager" button. It includes search and filter controls for "Resource group : All", "Location : All", and "Subscription : All". The main area displays a table with the following data:

Member name	Member provisioning state	Cluster name
aks001-aks	Succeeded	aks001

Azure Marketplace icinde Kubernetes Apps Destegi

- Partnerlerin, marketplace icinde kendi Kubernetes uygulamalarini sunmalarina olanak tanir.



The screenshot shows the Azure Marketplace search results page for 'Containers'. A red box highlights the 'Containers >' link under the 'Compute' category. The results list several Kubernetes-based applications, each with a preview image, name, publisher, and a 'Contact me' or 'Get it now' button. Some examples include 'Backbase Engagement Banking on Azure' by Backbase, 'Metrics Server packaged by Bitnami' by RightCloud, and 'Azure Kubernetes Service in a Box' by Sopra Steria Norway.

AKS icin Prometheus Destegi

Monitor Settings

i Onboarding deployment created
Onboarding deployment has been successfully created, please click here to track detailed progress.

i Onboarding is in progress, this may take a few mins. [Click here to check detailed deployment progress.](#)

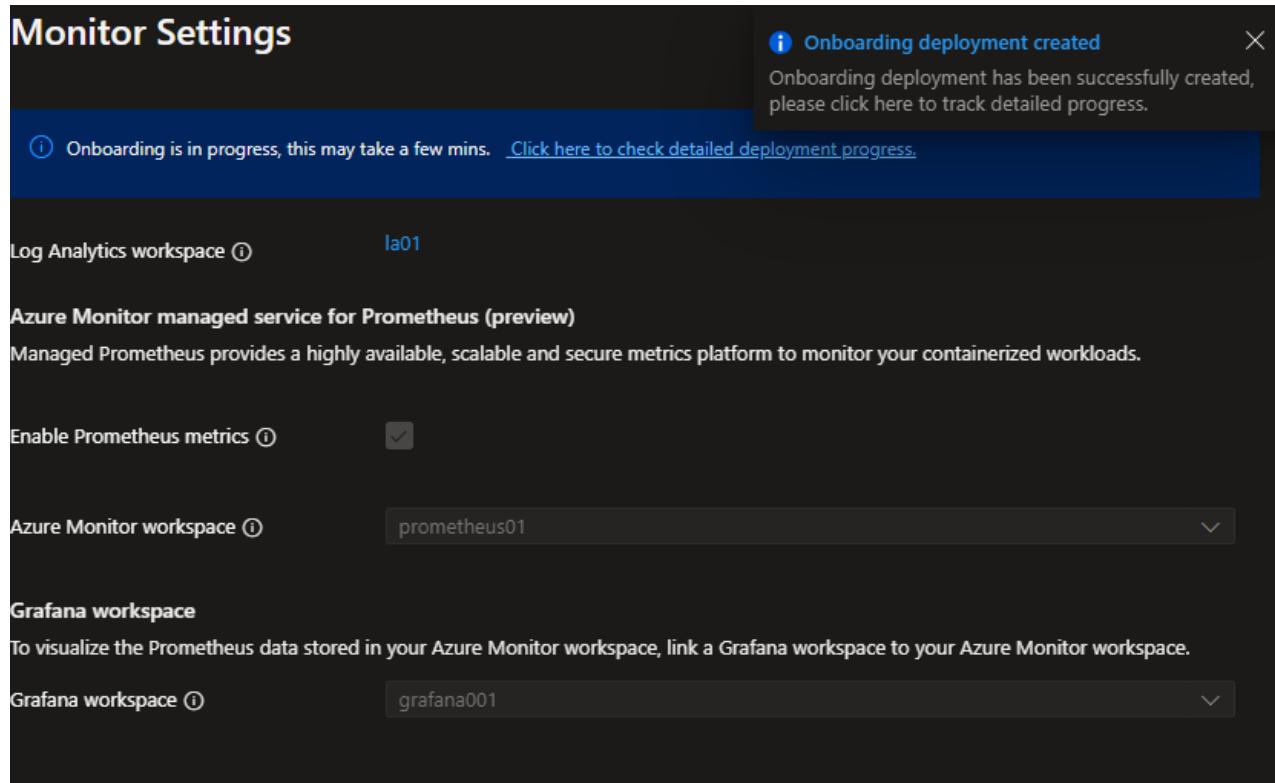
Log Analytics workspace **la01**

Azure Monitor managed service for Prometheus (preview)
Managed Prometheus provides a highly available, scalable and secure metrics platform to monitor your containerized workloads.

Enable Prometheus metrics

Azure Monitor workspace **prometheus01**

Grafana workspace
To visualize the Prometheus data stored in your Azure Monitor workspace, link a Grafana workspace to your Azure Monitor workspace.
grafana001



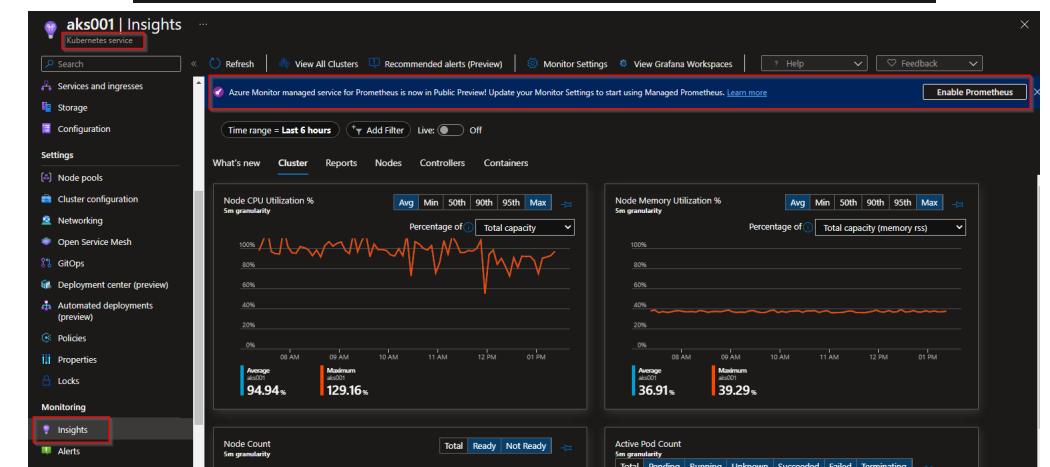
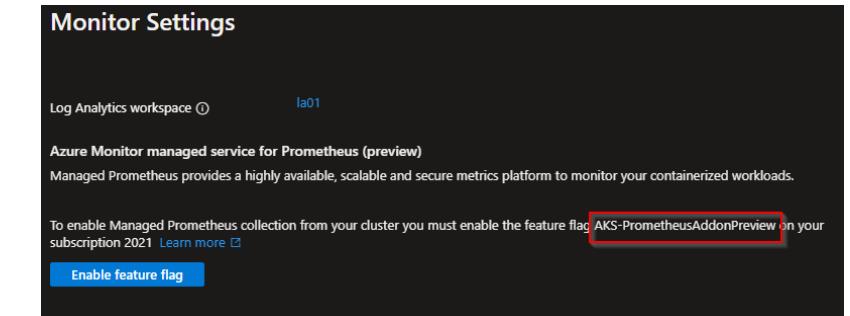
Monitor Settings

Log Analytics workspace **la01**

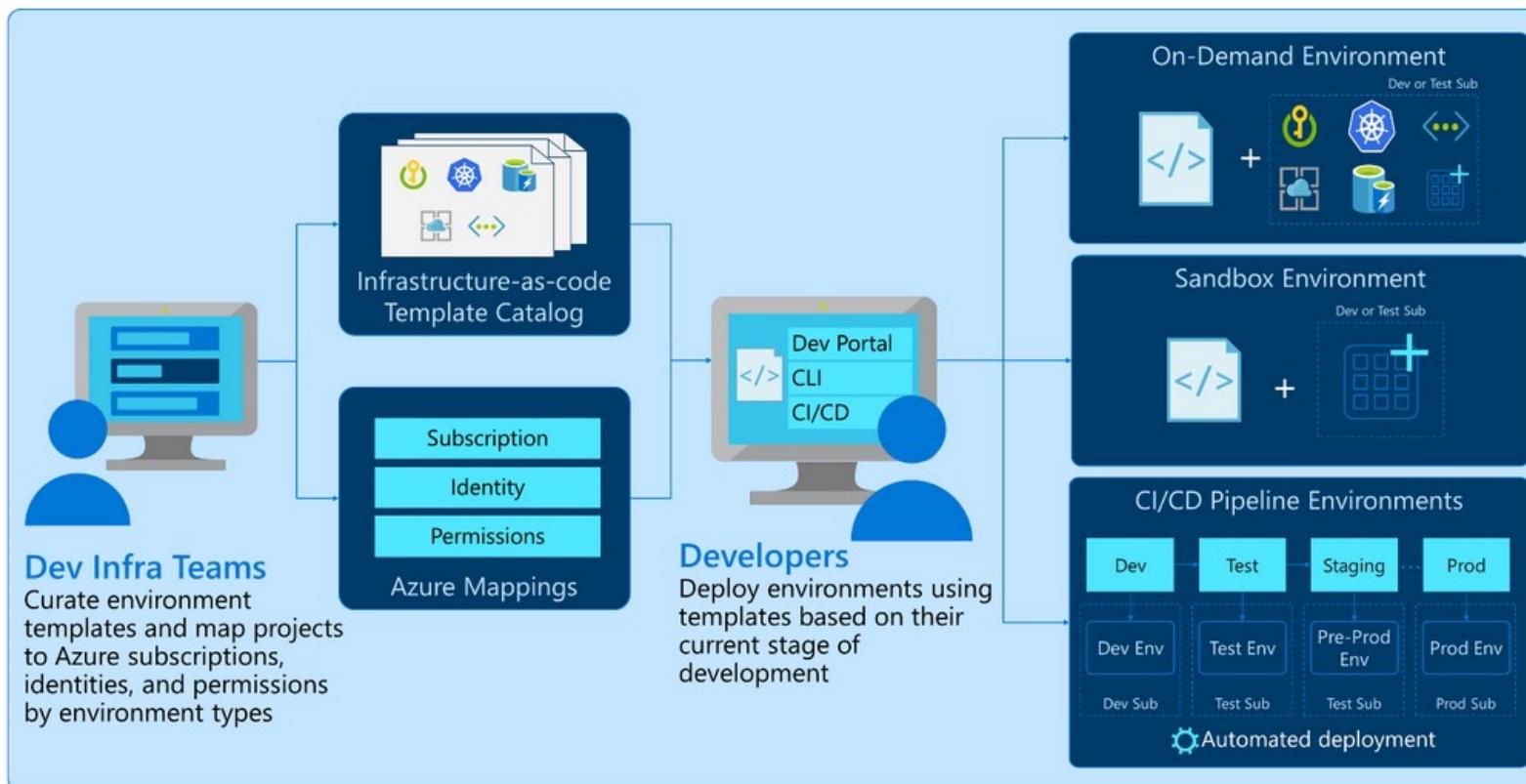
Azure Monitor managed service for Prometheus (preview)
Managed Prometheus provides a highly available, scalable and secure metrics platform to monitor your containerized workloads.

To enable Managed Prometheus collection from your cluster you must enable the feature flag **AKS-PrometheusAddonPreview** on your subscription 2021 [Learn more](#)

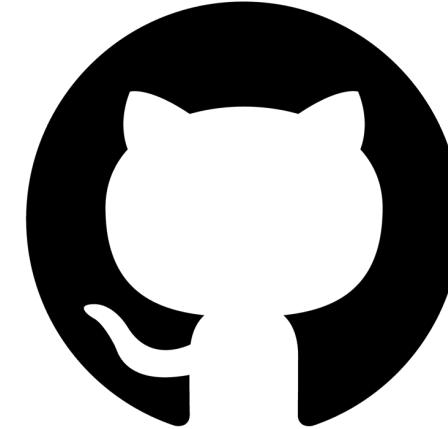
Enable feature flag



Azure Deployment Environments



Integrate security into
your developer workflow
with GitHub Advanced
Security for Azure DevOps



GitHub



Azure DevOps



Azure Boards



Azure Repos



Azure Pipelines



Service Bus Explorer

The screenshot shows the Service Bus Explorer interface for a queue named 'fd (busbus1/fd)'. The left sidebar contains navigation links: Overview, Access control (IAM), Diagnose and solve problems, Service Bus Explorer (which is selected and highlighted with a red box), Settings, Properties, Locks, Automation, Tasks (preview), Export template, Support + troubleshooting, and New Support Request. The main area displays a table of 799 messages. The columns are Sequence Number, Message ID, Enqueued Time, and Delivery Count. The first few messages are listed:

Sequence Number	Message ID	Enqueued Time	Delivery Count
983	f4dbe203-3ef0-4906-95c0-ba501...	Tue Oct 25 2022 10:54:00 GMT+...	0
984	12fb4415-0078-425a-8710-9610...	Tue Oct 25 2022 10:54:17 GMT+...	0
985	030c2ca6-6db8-44a4-92fb-7496...	Tue Oct 25 2022 16:09:36 GMT+...	0
986	c72f76d3-3c73-414f-beb8-edfd1...	Tue Oct 25 2022 16:09:36 GMT+...	0
987	5336347c-316c-486b-ba5e-b744...	Tue Oct 25 2022 16:09:36 GMT+...	0
988	204f57fe-00c9-418b-94d9-33b0...	Tue Oct 25 2022 16:09:36 GMT+...	0
989	309e8a29-d6bb-49d4-b045-8e0...	Tue Oct 25 2022 16:09:36 GMT+...	0

Below the table, there are two tabs: Message Body and Message Properties. The Message Body tab is active and shows a JSON object:

```
{  
  "subject": "/subscriptions//resourceGroups/defaultResourceGroup-weu/providers/microsoft/  
  "eventType": "Microsoft.Resources.ResourceWriteSuccess",  
  "id": "e37c03a9-1cea-4315-a66b-cbb0442a4c42",  
  "data": {  
    "status": "Succeeded",  
    "resource": {  
      "id": "",  
      "name": "",  
      "type": ""  
    }  
  }  
}
```



Teşekkürler