Azure Management Libraries for NET



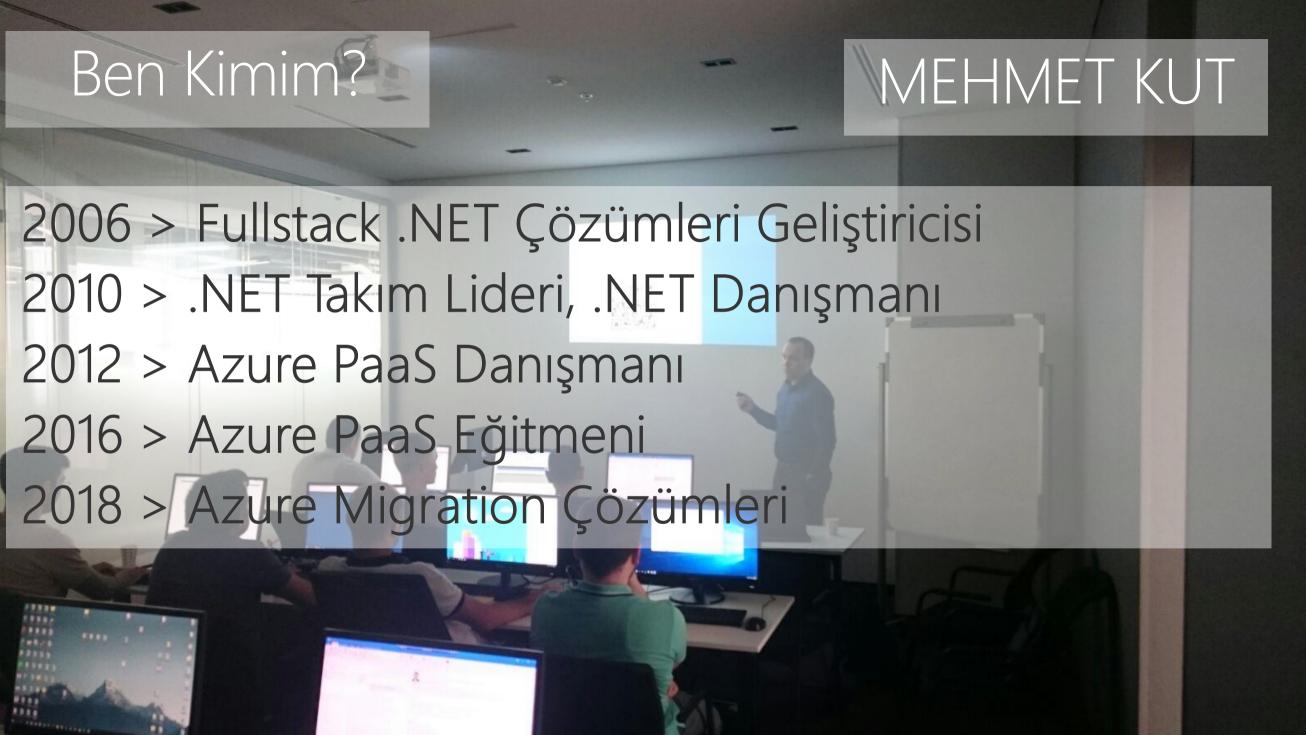
Mehmet Kut

Kıdemli Bulut Teknolojileri Danışmanı, Ceviz Bilgi Teknolojileri

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- github.com/mehmetkut







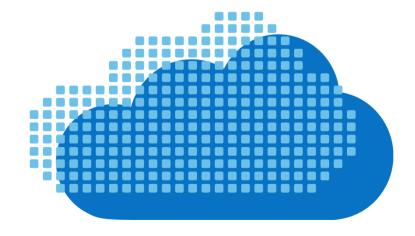
Azure Management Libraries Nedir?

Azure kaynaklarını yönetmek için tasarlanan üst seviye bir API'dir.





Yoğun trafik alan bir haber sitesi Azure WebSites üzerinde yayın yapmakta.



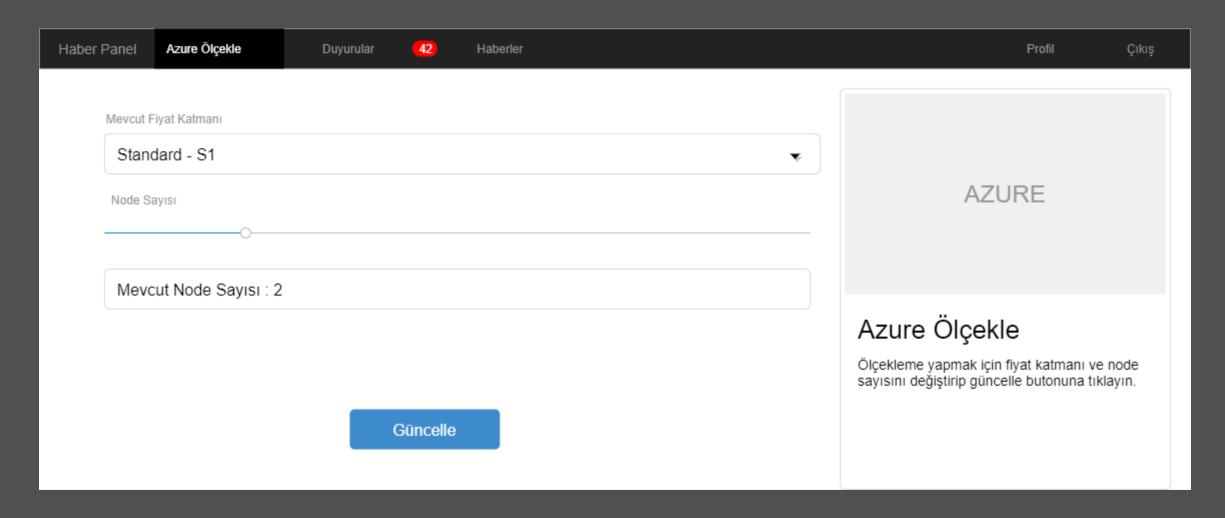


İstek:

Müşteri <u>kendi admin panelinden</u>, haber sitesinin Azure kaynaklarını <u>istediği zaman çoğaltıp</u>, <u>azaltabilmek</u> istemekte.



Örnek Sayfa Tasarımı





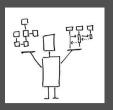
Kısıtlar:

- Azure Portal üzerinden el ile ölçekleme yapılması istenmiyor.
- Scripting çözümü istenmiyor.
- Admin Panel koduna Azure ile ilgili paketler eklemek istenmiyor.



Azure Web Sites - Admin Panel Mevcut Fivat Katmar Standard - S1 AZURE Mevcut Node Sayısı : 2 Azure Ölçekle Ölçekleme yapmak için fiyat katmanı ve node savısını değistirip güncelle butonuna tıklavın.

Azure Management Libraries for .NET

Azure Web Sites - Admin Panel | Comp




Azure Management Library

Azure Web Sites

Demo

Azure Functions

Nuget Azure Management Library

Install-Package Microsoft.Azure.Management.Fluent -Version 1.6.0

Azure Functions – GetAppService Function

```
1 ⊕using
15 ⊟namespace ScalerFunctionApp
16
17
         public static class GetAppService
18
19
             [FunctionName("GetAppService")]
             0 references
             public static async Task<httpResponseMessage> Run([HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)]HttpRequestMessage req, TraceWriter log, ExecutionContext executionContext)
20
21
22
                 log.Info("GetAppService started");
23
                 var appServicePlanName = "asp-cad-workshop";
24
25
                 var authFile = $"{Directory.GetParent(executionContext.FunctionDirectory).FullName}\\my.azureauth";
26
27
                 log.Info(authFile);
28
29
                 var azure = Azure.Authenticate(authFile).WithDefaultSubscription();
30
31
                 var appServicePlan = azure.AppServices.AppServicePlans.List().FirstOrDefault(x => x.Name == appServicePlanName);
32
33
                 var getAppServiceResponse = new GetAppServiceResponse();
34
35
36
                 getAppServiceResponse.Capacity = appServicePlan.Capacity;
37
                 getAppServiceResponse.SkuTier = appServicePlan.PricingTier.SkuDescription.Tier;
38
                 getAppServiceResponse.SkuSize = appServicePlan.PricingTier.SkuDescription.Size;
39
40
                 getAppServiceResponse.SkuName = appServicePlan.PricingTier.SkuDescription.Name;
                 getAppServiceResponse.SkuFamily = appServicePlan.PricingTier.SkuDescription.Family;
41
42
43
                 var appServicePlanResponseJson = JsonConvert.SerializeObject(getAppServiceResponse);
44
                 return req.CreateResponse(HttpStatusCode.OK, appServicePlanResponseJson);
45
46
47
48
         public class GetAppServiceResponse...
49
57
58
```

Azure Functions – SetAppService Function

1 ⊞using ...

```
13 ∃namespace ScalerFunctionApp
14
15 🚊
        public static class SetAppService
16
17
             [FunctionName("SetAppService")]
             public static async Task<httpResponseMessage> Run([HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)]HttpRequestMessage req, TraceWriter log, ExecutionContext executionContext)
18 😑
19
20
                log.Info("SetAppService started");
22
                string setAppServiceRequestJson = await req.Content.ReadAsStringAsync();
24 😑
                if (!string.IsNullOrEmpty(setAppServiceRequestJson))
25
26
                     var setAppServiceRequest = JsonConvert.DeserializeObject<SetAppServicePlanRequest>(setAppServiceRequestJson);
27
28
                     var appServicePlanName = "asp-cad-workshop";
30
                     var authFile = $"{Directory.GetParent(executionContext.FunctionDirectory).FullName}\\my.azureauth";
31
32
                     var azure = Azure.Authenticate(authFile).WithDefaultSubscription();
33
34
                     var appServicePlan = azure.AppServices.AppServicePlans.List().FirstOrDefault(x => x.Name == appServicePlanName);
35
                     log.Info(executionContext.FunctionDirectory);
36
37
                     PricingTier pricingTier = new PricingTier(setAppServiceRequest.Tier, setAppServiceRequest.Size); //Basic, B1
38
39
                     int capacity = setAppServiceRequest.Capacity;
41
                     appServicePlan?.Update()
42
                         .WithPricingTier(pricingTier)
43
                         .WithCapacity(capacity)
                         .Apply();
45
                     return req.CreateResponse(HttpStatusCode.OK, "SetAppService Successfully Competed");
47
49 🚊
                else
                    return req.CreateResponse(HttpStatusCode.BadRequest, "Something went wrong!");
53
        public class SetAppServicePlanRequest...
```

Soru & Cevap

Sunum Materyalleri:

https://github.com/mehmetkut/microsoft-partner-cad-workshop

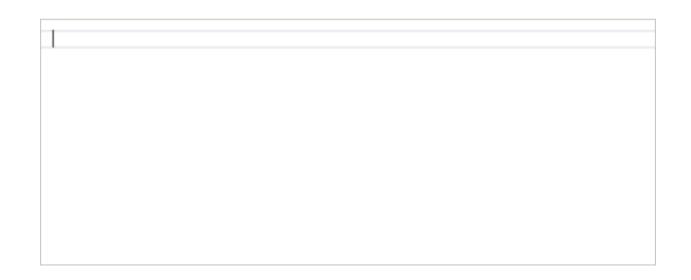
Kaynaklar:

https://github.com/Azure/azure-libraries-for-net

https://docs.microsoft.com/en-us/dotnet/azure/dotnet-sdk-azure-concepts?view=azure-dotnet

https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest





Teşekkürler

