# Cannot create managed private endpoint - ProvisioningStatus Failed or BadRequest with Azure Function

Last updated by | Ahmed Mahmoud | Mar 25, 2022 at 4:26 AM PDT

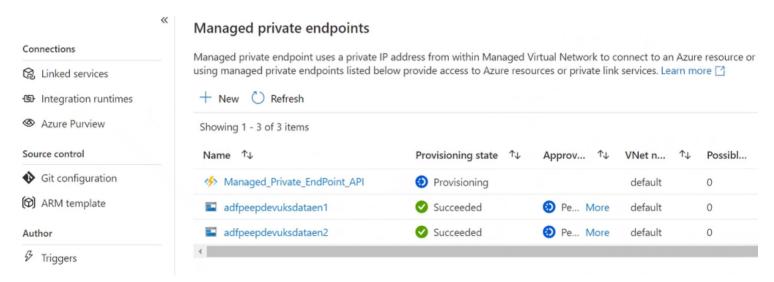
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# **Issue Description:**

Customer in this case was trying to create a Managed Private Endpoint from the Data Factory to **Azure Function**, the operation was stuck in provisioning state(over 1 hour) before failing with the error mentioned below.

Customer however was able to provision the MPE with other resources such as database, storage and event hub in the same subscription as well as the same data factories as you can see in the screenshots below.



#### Error code:

#### **BadRequest**

\_{"CorrelationId":null,"StatusCode":0,"Message":"Failed to create PrivateEndpoint for client b2af959d-2194-4511-89fd-6a279983b672; Id=153e02fd-ef94-49a3-b773-692a5381ddfa, Name=ep-dev-uks-1-001-dataeng-adf-001.Managed\_Private\_EndPoint\_API.

","ExceptionDetail":"Microsoft.Rest.Azure.CloudException: Injected fluent network exception. StatusCode:

BadRequest. ErrorDetails: {\r\n "error": {\r\n "code": "BadRequest",\r\n "message": "Call to Microsoft.Web/sites 
failed. Error message: Private Link for App Service Environment Site is only allowed on ASEv3's that have allowedPrivateEndpointConnections specified to be true object is not present in the request body.

# Investigation/Analysis:

- Collect the details from the customer such as; -
  - -Target resource ID this will have a name of the app that you can look up on the <u>AppLense</u> ☑ / <u>Observer</u> ☑, you'll need these tools to verify the type of SKU customer is using for their App Service Environment
  - -Managed private endpoint resource ID
- Dissecting the error as below;

**ExceptionDetail:** "Microsoft.Rest.Azure.CloudException: Injected fluent network exception. StatusCode: BadRequest. ErrorDetails: {\r\n "error": {\r\n "code": **BadRequest** \r\n "message": "Call to <u>Microsoft.Web/sites</u> [2] failed. Error message: Private Link for App Service Environment Site is only allowed on ASEv3's that have allowedPrivateEndpointConnections specified to be true object is not present in the request body

#### (i) Important

Private Endpoint is available for Windows and Linux Web App, containerized or not, hosted on these App Service Plans: PremiumV2, PremiumV3, IsolatedV2, Functions Premium (sometimes referred to as the Elastic Premium plan).

- From the above AppLense link, it seems that the customer is using ASEv2 App Service Environment for the WebApp which is unsupported to create the private link
- Additionally, Private Link for App Service Environment Site is only allowed on ASEv3's that have allowedPrivateEndpointConnections specified to be true object is not present in the request body, check out the special consideration for ASEv3 to create the private endpoint

Ref: <a href="https://docs.microsoft.com/en-us/azure/app-service/networking/private-endpoint#app-service-environment-v3-special-consideration">https://docs.microsoft.com/en-us/azure/app-service/networking/private-endpoint#app-service-environment-v3-special-consideration</a> 

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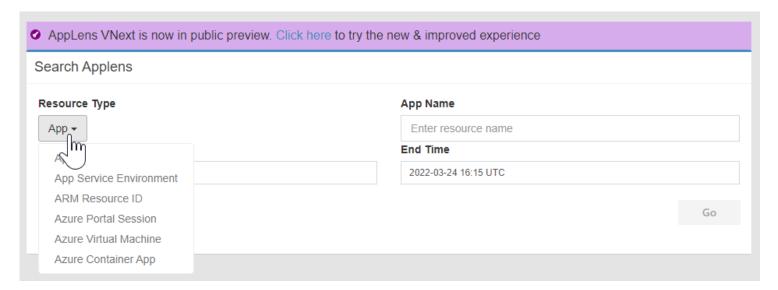
# App Service Environment v3 special consideration

In order to enable Private Endpoint for apps hosted in an IsolatedV2 plan (App Service Environment v3), you have to enable the Private Endpoint support at the App Service Environment level. You can activate the feature by the Azure portal in the App Service Environment configuration pane, or through the following CLI:

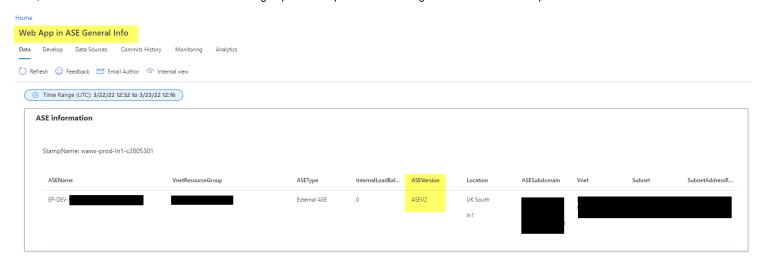


#### How to find out SKU of App Service Environment that customer is using?

- To find out App Service Environment SKU, you will require the name of App Service environment that customer is using OR the function app/web app name that you have already collected above as Target resource ID in the Managed Endpoint configuration. Use the below steps to find out ASE SKU.
- 1. Go to AppLense ☑
- 2. On the landing page select the resource type either App or App Service Environment depending on what you have connected from the customer
- 3. Enter the App Name and click on Go



4. Once you're in Select Detector --> Expand the Configuration and Management --> and select Web App in ASE General Info detector.



- 5. Make a note of ASEVersion, in this case it is **ASEv2** which is unsupported to create private endpoint
- You can also find out ASE version using the tool <u>Observer</u> 2, you will require app name from the same step as above. You can just search the Sites with the app name and look for the SKU.

```
"websystem_name": "WebSites",
    "management_state": "",
    "kind": "functionapp,linux",
    "namespace_descriptor": "PRIVATE(8495)",
    "sku": "Isolated",
    "repository_site_name": null,
    "scm_type": "VSTSRM",
    "created": "2022-03-10T12:33:36.0604657",
    "deleted_time": null,
```

Note: "sku": "Isolated" == ASEv2 and "sku": "Isolatedv2" == ASEv3

### Additional Troubleshooting

```
cluster('Armprod').database('ARMProd').EventServiceEntries
| where PreciseTimeStamp >= ago(6h)//datetime(2020-09-04 11:55:00) and PreciseTimeStamp < datetime(2020-09-04
| where subscriptionId == "<enter subscription id>"
| where properties has "<Target resource ID>"
| where status == "Failed"
| project PreciseTimeStamp, Deployment, eventName, status, httpRequest, resourceProvider, resourceUri, operati
```

# Mitigation

There are two options:

1. Migrate App Service Environment from ASEv2 to ASCv3 in order to use managed private endpoint route.

Ref - <a href="https://techcommunity.microsoft.com/t5/apps-on-azure-blog/announcing-app-service-environment-v3-migration-feature-public/ba-p/3059611">https://techcommunity.microsoft.com/t5/apps-on-azure-blog/announcing-app-service-environment-v3-migration-feature-public/ba-p/3059611</a> 

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2. Other alternative would be using SHIR to connect instead. SHIR can be anywhere just setting up connectivity in the networking will be little different for each scenario.

#### **Public Doc Reference**

https://docs.microsoft.com/en-us/azure/app-service/networking/private-endpoint 2

# **Internal Reference (optional)**

## **Additional Information:**

• Ava: Abhishek Shaha: Ava 2203230050001049 Customer is trying to create a managed ☑ ... posted in ADF - CSS Collaboration / General at Wednesday 23 March 2022 13:44:31

#### • ICM References:

• Author: abshaha

Reviewer: ahmahmo

• Keywords: Azure Function, Managed Private Endpoint

# How good have you found this content?

