

# 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

## Contents

- [Issue Description:](#)
- [Investigation/Analysis:](#)
  - [How to find out SKU of App Service Environment that cust...](#)
  - [Additional Troubleshooting](#)
- [Mitigation](#)
- [Public Doc Reference](#)
- [Internal Reference \(optional\)](#)
- [Additional Information:](#)

## 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.

Connections

Linked services

Integration runtimes

Azure Purview

Source control

Git configuration

ARM template

Author

Triggers

### Managed private endpoints

Managed private endpoint uses a private IP address from within Managed Virtual Network to connect to an Azure resource or using managed private endpoints listed below provide access to Azure resources or private link services. [Learn more](#)

[+ New](#) [Refresh](#)

Showing 1 - 3 of 3 items

Name	Provisioning state	Approv...	VNet n...	Possibl...
Managed_Private_EndPoint_API	Provisioning		default	0
adfpeepdevuksdataen1	Succeeded	Pe... <a href="#">More</a>	default	0
adfpeepdevuksdataen2	Succeeded	Pe... <a href="#">More</a>	default	0

## Error code:

BadRequest

\_{\"CorrelationId\":null,\"StatusCode\":0,\"Message\":\"Failed to create PrivateEndpoint for client b2af959d-2194-4511-89fd-6a279983b672, cluster 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](\"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 [AppLense](#) / [Observer](#), 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 [Microsoft.Web/sites](\"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

- As the error above suggests as well as according to the documentation [https://docs.microsoft.com/en-us/azure/app-service/networking/private-endpoint](\"https://docs.microsoft.com/en-us/azure/app-service/networking/private-endpoint\") for private endpoints for the web app, the only supported plan for private endpoint is isolatedv2 that is ASEv3

### ❗ 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: [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\")

# 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:

Azure CLI


Copy

Try It

```
az appservice ase update --name myasename --allow-new-private-endpoint-connections true
```

## 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 [AppLens](#) 
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

✓ AppLens VNext is now in public preview. [Click here](#) to try the new & improved experience

### Search Applens

Resource Type	App Name	End Time
<div>App ▾ App Service Environment ARM Resource ID Azure Portal Session Azure Virtual Machine Azure Container App</div>	<input type="text" value="Enter resource name"/>	<input type="text" value="2022-03-24 16:15 UTC"/>
		<input type="button" value="Go"/>

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

[Home](#)**Web App in ASE General Info**[Data](#) [Develop](#) [Data Sources](#) [Commits History](#) [Monitoring](#) [Analytics](#)[Refresh](#) [Feedback](#) [Email Author](#) [Internal view](#)


Time Range (UTC): 3/22/22 12:32 to 3/23/22 12:16

**ASE information**

StampName: waws-prod-ln1-c2805301

ASEName	VnetResourceGroup	ASEType	InternalLoadBal...	ASEVersion	Location	ASESubdomain	Vnet	Subnet	SubnetAddressR...
EP-DEV- [REDACTED]	[REDACTED]	External ASE	0	ASEv2	UK South In1	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

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 [Observer](#) , 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 - <https://techcommunity.microsoft.com/t5/apps-on-azure-blog/announcing-app-service-environment-v3-migration-feature-public/ba-p/3059611> 


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> 

## 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?



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