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## Terraform troubleshooting!

## Problem 1: Terraform is not able to talk to storage account which is part of Synapse analytics when deploying new settings to the existing resource.

Terraform is running on Azure DevOps, currently we have three agents pools like Microsoft hosted agent, Azure pipelines & Self-hosted agents.

Error message:

│ **Error: retrieving File System "dlgen2fl" in Storage Account "dldeveunhfa01": datalakestore.Client#GetProperties: Failure responding to request: StatusCode=403 -- Original Error: autorest/azure: error response cannot be parsed: {"" '\x00' '\x00'} error: EOF**

Possibilities tried:

1. Tried enable public access on storage account to check if the pipeline runs?
2. Checked where is the self-hosted agent siting in inside azure, checked what VNET it is linked to?
3. As the current networking architecture is hub and spoke model
4. I tried checking if the peering is enabled with other subscriptions where self-hosted agent is hosted.
5. Came to an conclusion that by enabling/adding VNET where VMSS (Self-hosted agent) to the storage account networking settings.
6. I tried run the pipeline again, looks like VMSS is able to talk to the storage account and successfully deploy the resources.

## Problem 2: Terraform code for synapse in azure devops where not able to communicate with it

│ **Error: retrieving Synapse RoleAssignment (Resource Group "syn-dev-eun-hfa-01"): accesscontrol.RoleAssignmentsClient#GetRoleAssignmentByID: Failure responding to request: StatusCode=403 -- Original Error: autorest/azure: Service returned an error. Status=403 Code="PublicNetworkAccessDenied" Message="The public network interface on this Workspace is not accessible. To connect to this Workspace, use the Private Endpoint from inside your virtual network or enable public network access for this workspace. Please see** [**https://aka.ms/synapseIpFirewall**](https://aka.ms/synapseIpFirewall) **to get more details."**

Possibilities tried:

1. Based on the error message like "Public network access denied", I have look at the access control of the synapse.
2. Our pipeline agents are running on self hosted vm and this is not part of same subscription.
3. As vmss is system assigned managed identity, I have added it to the synapse as contributor access.
4. Ran the pipeline again which indeed able to communicate and ran successfully.