How to get ADF VM info for Networking to troubleshoot

Last updated by | Veena Pachauri | Mar 8, 2023 at 10:57 PM PST

Contents

Issue

Does not apply to Support team

This only applies for Managed VNet IR running copy/external/pipeline activities. When customer see some network issues, could not connect to the customer's data store, please escalate to Azure Networking team for further troubleshooting

Steps

How to collect VM Id and Container Id:

1. Run Kusto query in ADMS kusto cluster

```
TaskManagementServiceActivity
| where ActivityId == "<activity run id>"
| where Message contains "Task was added"
| extend TaskId = extract("Task URl is '(.*?)', the command", 1, Message)
| project TIMESTAMP, TaskId, Message
```

TIMESTAMP	▲	TaskId	Message
2021-11-16 09:05:18.0649421		e362364f-6e51-72cc-1316-dbed0b1d2909	Task was adde

2. Get the TaskId, open this page: https://azurebatchdiagnostics.azurewebsites.net/ ⧉ copy the taskId to the query box and search:

> (?) e362364f-6e51-72cc-1316-dbed0b1d2909   🔍

3. In the Task Event result. click the link of Compute Node

Task Events

Task Status Events (4)

TimeStamp	Event (retry)	Compute Node	Exit Code	Scheduling Err	Task Guid	TT
2021-11-16 09:20:48Z	ReportedCompleted (0)	tvmps_431902a6bbb9528b2fd3add483d9ad4de0a181116e3fc85f617fb70ea2a4d89c_d	0 (0x0)	0 (0x0)	002d9a5d 📋	TT100
2021-11-16 09:17:37Z	ReportedRunning (0)	tvmps_431902a6bbb9528b2fd3add483d9ad4de0a181116e3fc85f617fb70ea2a4d89c_d			002d9a5d 📋	TT100
2021-11-16 09:17:23Z	ScheduledSuccessfully (0)	tvmps_431902a6bbb9528b2fd3add483d9ad4de0a181116e3fc85f617fb70ea2a4d89c_d			002d9a5d 📋	TT100
2021-11-16 09:05:18Z	AddedSuccessfully (0)				00000000 📋	TLS

4. Apply for JIT permission, and log into the VM which picks up the task

5. check the container name, run Powershell in Admin mode:

```
PS C:\Windows\system32> docker ps
CONTAINER ID      IMAGE                                          COMMAND              CREATED      STATUS        PORTS         NAMES
bb47435fb43f      mcr.microsoft.com/windows/servercore:ltsc2019  "cmd /c powershell.eâ€¦"  2 hours ago  Up 2 hours                  zen_black
```

6. Log into the container using below command (launch a powershell.exe) in the Container: dcoker exec -it <containername> <exe to launch>

```
PS C:\Windows\system32> docker exec -it bb47 powershell.exe
```

How to dump process in container

1. Run the following command to go to the folder visible to host machine

   ```
   cd D:\batch\tasks\shared
   ```

2. Create dump file of a process

   ```
   Powershell -c rundll32.exe C:\Windows\System32\comsvcs.dll, MiniDump {ID-of-the-process} .\my_dump_file.DMP full
   ```

3. Find the dump file in host machine in path `C:\ADMSTaskExecutor`

How to capture network trace on host machine

1. Run the command to start capture

   ```
   PktMon start -c --pkt-size 0 -m multi-file -f {capture file location. File ext is etl}
   ```

2. Run activities
3. Run the command to end capture

   ```
   PktMon stop
   ```

4. Convert the etl file to pcap file

   ```
   PktMon etl2pcap {capture file}
   ```

How to stop a stuck node

Kill the `TaskExecutor.exe` process.

How to export event logs

```
wevtutil epl {event name(e.g. Application)} path/to/export/file.evtx
```