How to get information from a running virtual machine

Introduction

This section shows you how to collection information from a running virtual machine.

Scenario requirements

You've already followed :ref:`vmware_rest_run_a_vm` and your virtual machine runs VMware Tools.

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\scenario_guides\vmware_rest_scenarios\(ansible-devel)(docs)(docsite)(rst)(scenario_guides)(vmware_rest_scenarios)vm_tool_information.rst`, **line 19);** *backlink*
>
> Unknown interpreted text role "ref".

How to collect information

In this example, we use the `vcenter_vm_guest_*` module to collect information about the associated resources.

Filesystem

Here we use `vcenter_vm_guest_localfilesystem_info` to retrieve the details about the filesystem of the guest. In this example we also use a `retries` loop. The VMware Tools may take a bit of time to start and by doing so, we give the VM a bit more time.

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>
> Unknown directive type "literalinclude".
>
> ```
> .. literalinclude:: task_outputs/Get_guest_filesystem_information.task.yaml
> ```

Result

> **System Message: ERROR/3** (`D:\onboarding-resources\sample-onboarding-resources\ansible-devel\docs\docsite\rst\scenario_guides\vmware_rest_scenarios\(ansible-devel)(docs)(docsite)(rst)(scenario_guides)(vmware_rest_scenarios)vm_tool_information.rst`, **line 39)**
>
> Unknown directive type "literalinclude".
>
> ```
> .. literalinclude:: task_outputs/Get_guest_filesystem_information.result.json
> ```

Guest identity

You can use `vcenter_vm_guest_identity_info` to get details like the OS family or the hostname of the running VM.

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Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Get_guest_identity_information.task.yaml
```

Result

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Get_guest_identity_information.result.json
```

Network

`vcenter_vm_guest_networking_info` will return the OS network configuration.

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```
.. literalinclude:: task_outputs/Get_guest_networking_information.task.yaml
```

Result

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Get_guest_networking_information.result.json
```

Network interfaces

`vcenter_vm_guest_networking_interfaces_info` will return a list of NIC configurations.

See also :ref:`vmware_rest_attach_a_network`.

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```
.. literalinclude:: task_outputs/Get_guest_network_interfaces_information.task.yaml
```

Result

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Get_guest_network_interfaces_information.result.json
```

Network routes

Use `vcenter_vm_guest_networking_routes_info` to explore the route table of your virtual machine.

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Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Get_guest_network_routes_information.task.yaml
```

Result

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```
.. literalinclude:: task_outputs/Get_guest_network_routes_information.result.json
```