Retrieve information from a specific VM

Introduction

This section shows you how to use Ansible to retrieve information about a specific virtual machine.

Scenario requirements

You've already followed :ref:`vmware_rest_create_vm` and you've got create a new VM called `test_vm1`.

> **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_info.rst, line 19); *backlink***
>
> Unknown interpreted text role "ref".

How to collect virtual machine information

List the VM

In this example, we use the `vcenter_vm_info` module to collect information about our new VM.

In this example, we start by asking for a list of VMs. We use a filter to limit the results to just the VM called `test_vm1`. So we are in a list context, with one single entry in the `value` key.

> **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_info.rst, line 31)**
>
> Unknown directive type "literalinclude".
>
> ```
> .. literalinclude:: task_outputs/Look_up_the_VM_called_test_vm1_in_the_inventory.task.yaml
> ```

Result

As expected, we get a list. And thanks to our filter, we just get one entry.

> **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_info.rst, line 38)**
>
> Unknown directive type "literalinclude".
>
> ```
> .. literalinclude:: task_outputs/Look_up_the_VM_called_test_vm1_in_the_inventory.result.json
> ```

Collect the details about a specific VM

For the next steps, we pass the ID of the VM through the `vm` parameter. This allow us to collect more details about this specific VM.

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_info.rst, line 45)

Unknown directive type "literalinclude".

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

Result

The result is a structure with all the details about our VM. You will note this is actually the same information that we get when we created the VM.

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_info.rst, line 52)

Unknown directive type "literalinclude".

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

Get the hardware version of a specific VM

We can also use all the `vcenter_vm_*_info` modules to retrieve a smaller amount of information. Here we use `vcenter_vm_hardware_info` to know the hardware version of the VM.

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_info.rst, line 62)

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Collect_the_hardware_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_info.rst, line 67)

Unknown directive type "literalinclude".

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

List the SCSI adapter(s) of a specific VM

Here for instance, we list the SCSI adapter(s) of the VM:

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_info.rst, line 74)

Unknown directive type "literalinclude".

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

You can do the same for the SATA controllers with `vcenter_vm_adapter_sata_info`.

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_info.rst, line 81)

Unknown directive type "literalinclude".

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

List the CDROM drive(s) of a specific VM

And we list its CDROM drives.

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_info.rst, line 88)

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/List_the_cdrom_devices_on_the_guest.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_info.rst, line 93)

Unknown directive type "literalinclude".

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

Get the memory information of the VM

Here we collect the memory information of the VM:

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_info.rst, line 100)

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Retrieve_the_memory_information_from_the_VM.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_info.rst, line 105)

Unknown directive type "literalinclude".

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

Get the storage policy of the VM

We use the `vcenter_vm_storage_policy_info` module for that:

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_info.rst, line 112)

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Get_VM_storage_policy.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_info.rst, line 117)

Unknown directive type "literalinclude".

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

Get the disk information of the VM

We use the `vcenter_vm_hardware_disk_info` for this operation:

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_info.rst, line 124)

Unknown directive type "literalinclude".

```
.. literalinclude:: task_outputs/Retrieve_the_disk_information_from_the_VM.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_info.rst, line 129)

Unknown directive type "literalinclude".

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