

Trouble retrieving VM objects ...



rsantos@qualc... 4 posts since

Oct 16, 2007 I'm trying to collect all VMs in a datastore from a given datacenter, passed as a command line argument. Here's a snippet:

```
my %allvms = ();

my $clusters = Vim::find_entity_views(
view_type => 'ClusterComputeResource',
filter => { 'name' => "$cluster_name" },
);

foreach my $cluster ( @$clusters ){
print "Cluster: " . $cluster->name . "\n";
my $datastores = Vim::get_views (mo_ref_array => $cluster->datastore);
foreach my $datastore (sort @$datastores){
my $vms = Vim::get_views (mo_ref_array => $datastore->vm);
foreach my $vm ( @$vms ){
$allvms{$vm->name}{path} = $vm->summary->config->vmPathName;
$allvms{$vm->name}{name} = $vm->name;
}
}
}

foreach ( sort keys %allvms ){ print "$_: $allvms{$_}{path}\n"; }
```

But the %allvms hash is empty. What am I doing wrong?

Thanks much!

Rob



stump 451 posts since

Sep 26, 2007 1. Re: **Trouble retrieving VM objects** Jun 26, 2009 9:21 AM

Have you looked at the named parameter "begin_entity" ?

You could probably save some logic by getting a ManagedObject Reference to your datacenter of choice, then make your **find_entity_views** call:

```
my $virtual_machine_views =
Vim::find_entity_view(
    view_type => "VirtualMachine",
    begin_entity => $datacenter_moref,
```

Trouble retrieving VM objects ...

}

That would probably be a little easier.



[rsantos@qualc...](#) 4 posts since

Oct 16, 2007 2. **Re: Trouble retrieving VM objects** Jun 26, 2009 1:17 PM

in response to: [stump](#)r

But wouldn't this give me all VMs in a datacenter? I'm only interested in VMs on a given datastore.



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Sep 26, 2007 3. **Re: Trouble retrieving VM objects** Jun 26, 2009 1:46 PM

in response to: [rsantos@qualc...](#) Sorry, didn't read that detail the first time. That's also easy.

Look at the [Datastore](#) object, particular the **vm** property. It'll give you an array of morefs of VMs using it. Obviously, this won't include VMs that are not in the VC inventory, for that you'd have to search the datastore for files and make some assumptions about their validity by name.



[rsantos@qualc...](#) 4 posts since

Oct 16, 2007 4. **Re: Trouble retrieving VM objects** Jun 26, 2009 1:52 PM

in response to: [stump](#)r

That's what I thought this section of the code was doing:

```
my $datastores = Vim::get_views (mo_ref_array => $cluster->datastore);  
foreach my $datastore (sort @$datastores){  
my $vms = Vim::get_views (mo_ref_array => $datastore->vm);
```

But the `@$vms` array appears to be empty and I'm not sure why. I know that the `@$datastores` array is being populated, though, so it appears to be a valid array reference.



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Sep 26, 2007 5. **Re: Trouble retrieving VM objects** Jun 26, 2009 2:14 PM

in response to: [rsantos@qualc...](#) So I wrote some code almost matching what you got (only difference was variable names). It's working for me.

Is your hash declaration in a loop so it's getting reset?



[rsantos@qualc...](#) 4 posts since

Oct 16, 2007 6. **Re: Trouble retrieving VM objects** Jun 26, 2009 2:40 PM

in response to: [stump](#)r

Trouble retrieving VM objects ...


Gee, I finally figured out what's going on. The account I'm using didn't have enough permissions in the cluster I was querying. I ran the code against another cluster and voila!

Hahaha, I feel stupid. Thanks a lot for your help, though.



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Sep 26, 2007 7. **Re: Trouble retrieving VM objects** Jun 26, 2009 2:41 PM

 in response to: [rsantos@qualc...](#) At least it was something simple. Sorry I misread your post not once, but twice.

