Azurados - Bug #14844

[dispatch-cloud] Azure driver bugs discovered in trial run

02/13/2019 07:57 PM - Tom Clegg

Status: Resolved  
Priority: Normal  
Assigned To: Peter Amstutz  
Category: Crunch  
Target version: 2019-03-13 Sprint

Description

- If creating a VM fails, an attempt should be made to delete the VM's dependent resources (nic/blob) before returning the error to Create()'s caller. As it stands, an unbounded number of new unused nics and blobs pile up during times when VMs can't be created and the dispatcher keeps retrying.
- nil pointer panic in (*AzureInstance)Address() -- perhaps a newly created instance that has no IP address assigned yet (see note)

Subtasks:

Task # 14892: Review 14844-cdc-azure-fixes

Related issues:

Related to Arvados - Story #13908: [Epic] Replace SLURM for cloud job scheduling/dispatching added

Related to Arvados - Story #14807: [arvados-dispatch-cloud] Features/fixes needed

Associated revisions

Revision a310d114 - 03/01/2019 02:55 PM - Peter Amstutz
Merge branch '14844-cdc-azure-fixes' closes #14844

Arvados-DCO-1.1-Signed-off-by: Peter Amstutz <pamstutz@veritasgenetics.com>

History

#1 - 02/13/2019 07:57 PM - Tom Clegg
- Related to Story #13908: [Epic] Replace SLURM for cloud job scheduling/dispatching added

#2 - 02/13/2019 07:58 PM - Tom Clegg

panic: runtime error: invalid memory address or nil pointer dereference
[signal SIGSEGV: segmentation violation code=0x1 addr=0x10 pc=0x83aab5]

goroutine 102 [running]:
git.curoverse.com/arvados.git/lib/cloud.(*AzureInstance).Address(0xc420478500, 0x7f16da9a9628, 0xc420478500)

/GOPATH/src/git.curoverse.com/arvados.git/lib/cloud/azure.go:633 +0x15

git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor.(*Executor).setupSSHClient(0xc420368ea0, 0xc42061a6e7, 0xc420368e01, 0xc4204b88a0)

/GOPATH/src/git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor/executor.go:178 +0x61

git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor.(*Executor).sshClient(0xc420368ea0, 0xc42061a6e7, 0x0, 0x0, 0x0)

/GOPATH/src/git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor/executor.go:153 +0x10f

git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor.(*Executor).newSession.func1(0x8f7c01, 0x0, 0x9ebaa0, 0xc4204b88b0)

/GOPATH/src/git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor/executor.go:128 +0x37

git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor/executor.go:136 +0xa0
git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor.(*Executor).newSession(0xc420368ea0, 0x0, 0x8e5c40, 0xc420253710)

/GOPATH/src/git.curoverse.com/arvados.git/lib/dispatchcloud/ssh_executor/executor.go:92 +0x73
c430, 0xc4204e6e0)

/GOPATH/src/git.curoverse.com/arvados.git/lib/dispatchcloud/worker/worker.go:349 +0x91

02/20/2020
Evidently either IPConfigurations or PrivateIPAddress can be nil here:

```go
func (ai *AzureInstance) Address() string {
    return *(*ai.nic.IPConfigurations)[0].PrivateIPAddress
}
```

#3 - 02/20/2019 03:44 PM - Tom Morris
- Target version changed from To Be Groomed to Arvados Future Sprints
- Story points set to 1.0

#4 - 02/20/2019 04:41 PM - Tom Clegg
- Related to Story #14807: [arvados-dispatch-cloud] Features/fixes needed before first production deploy added

#5 - 02/27/2019 04:11 PM - Tom Morris
- Target version changed from Arvados Future Sprints to 2019-03-13 Sprint

#6 - 02/27/2019 04:27 PM - Peter Amstutz
- Assigned To set to Peter Amstutz

#7 - 02/28/2019 08:58 PM - Peter Amstutz
14844-cdc-azure-fixes @ 8c4fb97b1d34b58fcb50d239698a08c35a63dac3
- If PrivateIPAddress somehow isn't defined, return empty string (don't panic)
- If VM create fails, attempt to immediately clean the VHD and NIC corresponding to that VM (if it doesn't work, cleanup processes should still get around to it.)

#8 - 02/28/2019 09:58 PM - Lucas Di Pentima
This LGTM, thanks.

#9 - 03/01/2019 02:56 PM - Peter Amstutz
- Status changed from New to Resolved
- % Done changed from 0 to 100

Applied in changeset arvados|a310d114bdc06b20cd007e6aff14b409a1c11e32.

#10 - 03/01/2019 07:33 PM - Tom Morris
- Release set to 15