

# Common CloudStack Issues and their Solutions

Kirk Kosinski  
Cloud Architect  
kirk@kirkkosinski.com  
@kirkkosinski

APACHECON  
NORTH AMERICA



# About Me

- Cloud Architect at ShapeBlue
- Specialize in...
  - Building and supporting IaaS clouds based on Apache CloudStack
- Involved with CloudStack since 2011 at Cloud.com
- Apache CloudStack Committer

# About ShapeBlue

*“ShapeBlue are the largest independent integrator of Cloudstack technologies globally and are specialists in the design and implementation of IaaS cloud infrastructures for both private and public cloud implementations.”*

# Agenda

- Network Troubleshooting
  - VLANs, Security Groups
  - Hosts, Virtual Routers
  - VMs, Templates
- Log Analysis
  - Files, keywords
- Examples

# Network Troubleshooting

# VLANs

- Symptoms
- Switch misconfiguration
  - All VLANs allowed by default on a trunk? Or denied?
- (Physical) router problems for shared networks
- Bad or mislabeled cabling

# VLANs, continued

- Hypervisor problems
  - NIC drivers
  - Bonding
- Database hacking

# Security Groups

- KVM
- XenServer
  - Switch backend
  - “Optimizations”
- vSphere
- Hyper-V



# Host Connectivity

- Hypervisors
- System VMs
- Secondary Storage

# Virtual Router (VR, DomR)

- Dnsmasq
- HAProxy
- Password resets
  - Client problems (broken script, DHCP client)
  - Server problems (socat on 8080/tcp)
- User- and Meta-data
  - Apache (/var/www/html/)

# Templates

- eth0, or is it eth1? Or maybe asdf123jkl456?
- “sysprep” for Windows, your own solution for Linux
- Prepare in CloudStack environment?

# Log Analysis

# Management Server

- /var/log/cloudstack/management/
  - management-server.log
  - apilog.log
  - The rest (catalina.out, host-manager.log, etc.)

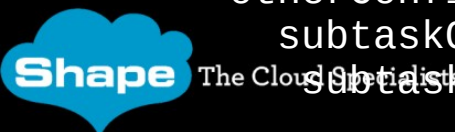
# Hypervisor Hosts

- XenServer
  - /var/log/SMlog, xensource.log
  - Citrix Insight Services (formerly TaaS) – <https://cis.citrix.com/>
- KVM
  - /var/log/cloudstack/agent/agent.log
  - /var/log/libvirt/libvirtd.log, /var/log/messages
- vSphere
  - vCenter logs

# XenServer Errors

- Some info will show up in management-server.log...

```
2015-04-20 03:10:10,975 WARN [c.c.h.x.r.CitrixResourceBase] (DirectAgent-291:ctx-44e0173d) (logid:7c8f1b03) Task failed! Task record:                uuid: a053a320-7be4-2511-55fb-ab871324fcdb
    nameLabel: Async.VM.start_on
    nameDescription:
    allowedOperations: []
    currentOperations: {}
        created: Mon Apr 20 03:13:56 AEST 2015
        finished: Mon Apr 20 03:14:02 AEST 2015
        status: failure
    residentOn: com.xensource.xenapi.Host@93f636f8
    progress: 1.0
    type: <none/>
    result:
        errorInfo: [INTERNAL_ERROR, xenopsd internal error: VM = 21dd2651-8930-33d3-2e6a-7600f9cadcd0; domid = 5; Bootloader.Bad_error Traceback (most recent call last):
            File "/usr/bin/pygrub", line 903, in ?
                fs = fsimage.open(file, part_offs[0], bootfsoptions)
IOError: [Errno 95] Operation not supported
]
    otherConfig: {}
    subtaskOf: com.xensource.xenapi.Task@aaf13f6f
    subtasks: []
```



The Cloud Solution

Blue

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#apachecon



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Date Range:  to

[How to Collect Data](#)

<input type="checkbox"/>	Issues	Product	Description	Upload Identifier	Upload Time ↓	Case Number	Username	Size
<input type="checkbox"/>	10 Issues Detected	XenServer	status-report-2016-05-04-15-09-41.zip		04:24 pm 05/04/2016			244 MB

Details: status-report-2016-05-04-15-09-41.zip

XenServer Overview

Analysis Results

Download ▼

- XenServer Overview
- Health Check Summary**
- Pool Overview
- Host Details
- Host Memory Usage
- XAPI Search
- XAPI Tree
- XenTools Info

Health Check Summary

**Diagnostic Report (10 live alerts)**

We are constantly feeding Insight Services new problem and best practices definitions. If we haven't solved your issue or you have a specific environment concern, [Click here](#) to open a case with Support (support contract required), or search our [Knowledge Base](#).

**Issue Name:** [20348 - XenServer Updates](#)  
**Description:** Detected that there available hotfixes for XenServer that have not been applied. These can prevent known issues, add enhancements, and resolve existing issues.

**Issue Name:** [Intel Errata AAK167 and BT248](#)  
**Description:** Detected that due to Intel Errata AAK167 and BT248 - along with a BIOS older than October 2013 - there is a potential for full host crashes. This affects Core and Xeon processors.

**Issue Name:** [xenserver.Plugin-20387Security Update \(Bigfoot\)](#)  
**Description:** A number of security vulnerabilities have been identified in Citrix XenServer that may allow a malicious administrator of a guest VM to compromise the host and guest users to crash the host. These vulnerabilities affect all currently supported versions of Citrix XenServer up to and including Citrix XenServer 6.5 Service Pack 1. CVEs Addressed- CVE-2015-7835 CVE-2015-7969 CVE-2015-7970 CVE-2015-7971 CVE-2015-7972

**Issue Name:** [xenserver.Plugin-20408 Security Update \(DasherSeries\)](#)  
**Description:** A number of security vulnerabilities have been identified in Citrix XenServer that could, in certain





# Getting Started

- Job ID (UUID) from API, UI (Firebug), database (async\_job)
- Error text from UI/API
- VM name, type of task that failed
- Keywords
  - WARN, ERROR, Exception, Unable, Failed, “submit async”
- Hypervisor errors in management-server.log
  - XS: SR\_BACKEND\_FAILURE
  - KVM: LibvirtException
  - vSphere: Errors/exceptions that sound VMware-related

# Next...

- Enable TRACE
- “Forwarding Seq”
- Watch out for the “avoid set”
- Are “nearby” entries relevant?
- Down the rabbit hole
  - Jobs and Sequences

# TRACE

- Even more verbose than DEBUG (the default)

```
2014-03-27 16:14:32,564 TRACE [db.Transaction.Statement]
(AgentTaskPool-3:null) Preparing: UPDATE storage_pool SET
storage_pool.capacity_bytes=?, storage_pool.used_bytes=? WHERE
storage_pool.id = ?
2014-03-27 16:14:32,565 TRACE [db.Transaction.Statement]
(AgentTaskPool-3:null) Closing:
com.mysql.jdbc.JDBC4PreparedStatement@e50f51a:
UPDATE storage_pool SET storage_pool.capacity_bytes=317068410880,
storage_pool.used_bytes=266986225664 WHERE storage_pool.id = 200
```

# Jobs and Sequences

- Job ID, Sequence ID

```
2015-04-20 00:02:25,655 DEBUG [c.c.a.t.Request] (Work-Job-Executor-
63:ctx-5b8d92c0 job-85300/job-85301 ctx-d7ecec19) (logid:42105568) Seq
21-5267522714163243677: Sending { Cmd , MgmtId: 258300594385730, via:
21(xxx), Ver: v1, Flags: 100011,
[{"org.apache.cloudstack.storage.command.CreateObjectCommand":{"data":
{"org.apache.cloudstack.storage.to.SnapshotObjectTO":{"volume":
{"uuid":"xxx", "volumeType":"ROOT", "dataStore":
{"org.apache.cloudstack.storage.to.PrimaryDataStoreTO":
...

```

# Jobs and Sequences (continued)

- How to follow a sequence?

```
2015-04-20 00:02:25,666 DEBUG [c.c.a.m.DirectAgentAttache] (DirectAgent-420:ctx-34d1cf16) (logid:14f8138a) Seq 21-5267522714163243677: Executing request
```

```
...  
2015-04-20 00:02:28,615 DEBUG [c.c.a.m.DirectAgentAttache] (DirectAgent-420:ctx-34d1cf16) (logid:42105568) Seq 21-5267522714163243677: Response Received:
```

```
2015-04-20 00:02:28,617 DEBUG [c.c.a.t.Request] (DirectAgent-420:ctx-34d1cf16) (logid:42105568) Seq 21-5267522714163243677: Processing:  
{ Ans: , MgmtId: 258300594385730, via: 21, Ver: v1, Flags: 10,  
[{"org.apache.cloudstack.storage.command.CreateObjectAnswer":{"data":  
{"org.apache.cloudstack.storage.to.SnapshotObjectTO":  
{"path":"xxx","id":0,"quiescevm":false,"physicalSize":0}}},"result":true,  
{"path":"xxx","id":0,"quiescevm":false,"physicalSize":0}}]}
```

# Jobs and Sequences (concluded)

- Forwarded sequences

```
2015-04-27 00:48:39,760 DEBUG [c.c.a.m.ClusteredAgentAttache] (Work-Job-
Executor-130:ctx-de44e20a job-81042/job-81043 ctx-d7467ddb)
(logid:c2e97191) Seq 24-3942057048832755047: Forwarding Seq 24-
3942057048832755047: { Cmd , MgmtId: 160893897519168, via: 24(xxx),
Ver: v1, Flags: 100011, [{"com.cloud.agent.api.StopCommand":
{"isProxy":false,"executeInSequence":false,"checkBeforeCleanup":false,"v
mName":"i-4-12758-VM","wait":0}}] } to 235634108909921
```

```
...
2015-04-27 00:48:51,007 DEBUG [c.c.a.t.Request] (Work-Job-Executor-
130:ctx-de44e20a job-81042/job-81043 ctx-d7467ddb) (logid:c2e97191) Seq
24-3942057048832755047: Received: { Ans: , MgmtId: 160893897519168,
via: 24, Ver: v1, Flags: 10, { StopAnswer } }
```



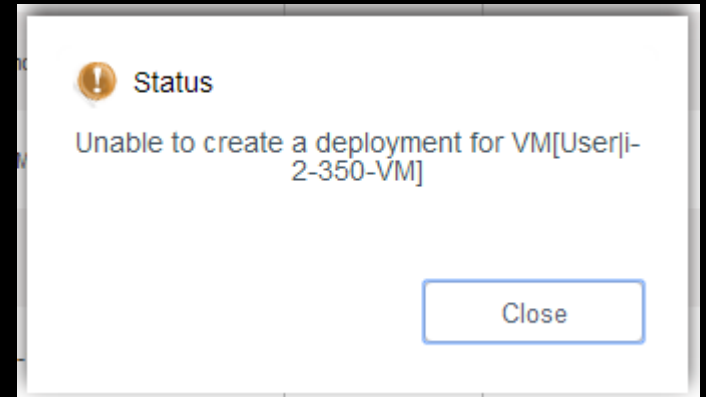
# Possible Solutions

- Check capacity (CPU, RAM, disk)
- Check network
- Keep waiting
- ~~Hack the database and retry~~

# Examples

# UI Error

- grep the log for the error text from the UI



```
2014-04-10 21:24:47,339 DEBUG [o.a.c.f.j.i.AsyncJobManagerImpl] (API-  
Job-Executor-28:job-1726) Complete async job-1726, jobStatus: FAILED,  
resultCode: 530, result:  
org.apache.cloudstack.api.response.ExceptionResponse/null/  
{"uuidList": [], "errorCode": 533, "errorText": "Unable to create a  
deployment for VM[User|i-2-350-VM]"}  
}
```

# UI Error (continued)

- Start looking for an explanation
  - The dreaded “avoid set”.

```
2014-04-10 21:24:47,261 DEBUG [c.c.d.FirstFitPlanner] (API-Job-
Executor-28:job-1726 ctx-f5491d11) Removing from the clusterId list
these clusters from avoid set: [1, 2, 5]
```

# UI Error (continued)

- Keep looking...

```
2014-04-10 21:24:47,257 DEBUG [c.c.d.DeploymentPlanningManagerImpl]
(API-Job-Executor-28:job-1726 ctx-f5491d11) Could not find suitable
Deployment Destination for this VM under any clusters, returning.
```

# UI Error (concluded)

- Keep looking...

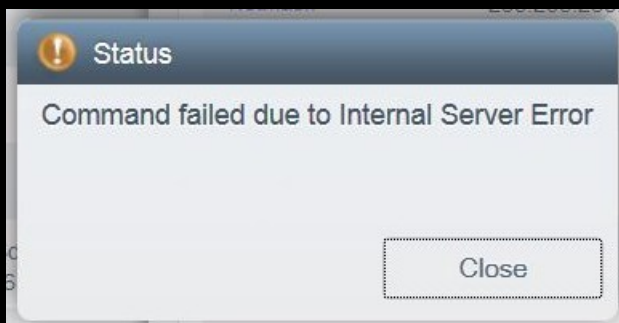
```
2014-04-10 21:24:47,252 DEBUG [c.c.c.CapacityManagerImpl] (API-Job-
Executor-28:job-1726 ctx-f5491d11 FirstFitRoutingAllocator) Checking if
host: 17 has enough capacity for requested CPU: 2300 and requested RAM:
1073741824 , cpuOverprovisioningFactor: 3.0
```

```
...
2014-04-10 21:24:47,254 DEBUG [c.c.c.CapacityManagerImpl] (API-Job-
Executor-28:job-1726 ctx-f5491d11 FirstFitRoutingAllocator) Host has
enough CPU and RAM available
```

```
...
2014-04-10 21:24:47,255 DEBUG [c.c.a.m.a.i.FirstFitAllocator] (API-Job-
Executor-28:job-1726 ctx-f5491d11 FirstFitRoutingAllocator) Not using
host 17; host has cpu capability? false, host has capacity?true
```

# Another UI Error

- Grep the log for the error from the UI
  - Can fail with “only” DEBUG logging enabled



# Another UI Error (continued)

```
2015-06-08 17:12:18,607 DEBUG [cloud.async.AsyncJobManagerImpl]
(ApiServer-2:null) submit async job-594 = [ 7fa5a69e-26b4-43f1-adc0-
c8e0ff162388 ], details: AsyncJobVO {id:594, userId: 1, accountId: 1,
sessionKey: null, instanceType: None, instanceId: null, cmd:
org.apache.cloudstack.api.command.user.vm.RemoveNicFromVMCmd,
cmdOriginator: null, cmdInfo: {"virtualmachineid":"cb534f4e-ec72-4371-
9011-dc41980ba43a", "cmdEventType":"NIC.DELETE", "nicid":"7b4d9e8e-cf8b-
4026-9611-
4fc5b09e0a77", "ctxUserId":"1", "httpmethod":"GET", "ctxAccountId":"1", "ctx
StartEventId":"3140"}, cmdVersion: 0, callbackType: 0, callbackAddress:
null, status: 0, processStatus: 0, resultCode: 0, result: null,
initMsid: 345048768731, completeMsid: null, lastUpdated: null,
lastPolled: null, created: null}
```



# Another UI Error (concluded)

```
2015-06-08 17:12:18,657 ERROR [cloud.async.AsyncJobManagerImpl] (Job-Executor-55:job-594 = [ 7fa5a69e-26b4-43f1-adc0-c8e0ff162388 ]) Unexpected exception while executing org.apache.cloudstack.api.command.user.vm.RemoveNicFromVMCmd
java.lang.NullPointerException
    at com.cloud.hypervisor.guru.VMwareGuru.implement(VMwareGuru.java:201)
    at
com.cloud.vm.VirtualMachineManagerImpl.removeNicFromVm(VirtualMachineManagerImpl.java:3071)
    at
com.cloud.vm.UserVmManagerImpl.removeNicFromVirtualMachine(UserVmManagerImpl.java:1068)
    at
org.apache.cloudstack.api.command.user.vm.RemoveNicFromVMCmd.execute(RemoveNicFromVMCmd.java:103)
    at com.cloud.api.ApiDispatcher.dispatch(ApiDispatcher.java:158)
    at com.cloud.async.AsyncJobManagerImpl$1.run(AsyncJobManagerImpl.java:530)
```

# Exceptions

- Check the code

```
2014-04-10 21:24:47,338 INFO [o.a.c.a.c.u.v.DeployVMCmd] (API-Job-Executor-28:job-1726 ctx-
f5491d11) Unable to create a deployment for VM[User|i-2-350-VM]
com.cloud.exception.InsufficientServerCapacityException: Unable to create a deployment for
VM[User|i-2-350-VM]Scope=interface com.cloud.dc.DataCenter; id=1
    at
    org.apache.cloudstack.engine.cloud.entity.api.VMEntityManagerImpl.reserveVirtualMachine(VMEnti
tyManagerImpl.java:210)
    at
    org.apache.cloudstack.engine.cloud.entity.api.VirtualMachineEntityImpl.reserve(VirtualMachineE
ntityImpl.java:196)
    at com.cloud.vm.UserVmManagerImpl.startVirtualMachine(UserVmManagerImpl.java:3620)
    at com.cloud.vm.UserVmManagerImpl.startVirtualMachine(UserVmManagerImpl.java:3201)
    at com.cloud.vm.UserVmManagerImpl.startVirtualMachine(UserVmManagerImpl.java:3187)
    at sun.reflect.GeneratedMethodAccessor764.invoke(Unknown Source)
```

...



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# Patience

- A virtual router took a “long time” to reboot

```
2012-08-31 12:13:06,333 DEBUG [cloud.async.AsyncJobManagerImpl]
(catalina-exec-14:null) submit async job-5473, details: AsyncJobVO
{id:5473, userId: 161, accountId: 2, sessionKey: null, instanceType:
DomainRouter, instanceId: 4054, cmd:
com.cloud.api.commands.RebootRouterCmd, cmdOriginator: null, cmdInfo:
{"response":"json","id":"4054","sessionkey":"84u0YXRynfqNDk7QTVY04Nek238\
u003d","ctxUserId":"161","_":"1346411586256","ctxAccountId":"2","ctxStart
EventId":"22455"}, cmdVersion: 0, callbackType: 0, callbackAddress: null,
status: 0, processStatus: 0, resultCode: 0, result: null, initMsid:
345052684411, completeMsid: null, lastUpdated: null, lastPolled: null,
created: null}
```

# Patience (continued)

- The job initiated sequence **1415446919**, which waited for sequence **1415446801**... for 28 minutes?!

```
2012-08-31 12:13:06,377 DEBUG [agent.transport.Request] (Job-Executor-131:job-5473) Seq 16-1415446919: Waiting for Seq 1415446801 Scheduling: { Cmd , MgmtId: 345052684411, via: 16, Ver: v1, Flags: 100111, [{"StopCommand": {"isProxy":false,"privateRouterIpAddress":"10.255.105.3","vmName":"r-4054-VM","wait":0}}] }
```

```
...  
2012-08-31 12:41:14,749 DEBUG [agent.transport.Request] (DirectAgent-238:null) Seq 16-1415446919: Executing: { Cmd , MgmtId: 345052684411, via: 16, Ver: v1, Flags: 100111, [{"StopCommand": {"isProxy":false,"privateRouterIpAddress":"10.255.105.3","vmName":"r-4054-VM","wait":0}}] }
```

# Patience (continued)

- Success!

```
2012-08-31 12:45:54,197 DEBUG [cloud.async.AsyncJobManagerImpl] (Job-  
Executor-131:job-5473) Complete async job-5473, jobStatus: 1,  
resultCode: 0, re...
```



# Patience (continued)

- But why so slow??
  - Sequence **1415446801** was from another job that was slow.

```
2012-08-31 11:31:59,772 DEBUG [cloud.async.AsyncJobManagerImpl]
(catalina-exec-3:null) submit async job-5461, details: AsyncJobVO
{id:5461, userId: 188, accountId: 35, sessionKey: null, instanceType:
VirtualMachine, instanceId: 4157, cmd:
com.cloud.api.commands.DeployVMCmd, cmdOriginator: null, cmdInfo:
{"id":"4157","templateId":"210","ctxUserId":"188","hypervisor":"VMWare",
"serviceOfferingId":"14","ctxAccountId":"35","ctxStartEventId":"22391","ap
iKey":"asdf","signature":"asdf","displayname":"TESTVM","zoneId":"4"},
cmdVersion: 0, callbackType: 0, callbackAddress: null, status: 0,
processStatus: 0, resultCode: 0, result: null, initMsid: 345052684411,
completeMsid: null, lastUpdated: null, lastPolled: null, created: null}
```

# Patience (concluded)

```
2012-08-31 11:32:10,144 DEBUG [agent.transport.Request] (Job-Executor-112:job-5461) Seq 16-1415446801: Sending { Cmd , MgmtId: 345052684411, via: 16, Ver: v1, Flags: 100111, [{"storage.PrimaryStorageDownloadCommand":{"localPath":"/mnt/5a3dad9f-4c1a-3304-99e7-4975a6943605", "poolUuid":"a08b0cef-d377-3d84-82c1-bf04e40bd6e2", "poolId":237, "secondaryStorageUrl":"nfs://10.x.x.3/NFS_FS1", "primaryStorageUrl":"nfs://VMFS datastore:/dc/LUN1/dc/LUN1", "url":"nfs://10.x.x.3/NFS_FS1/template/tmp1/2/210//1ae89570-60e5-3872-9ecb-60d90da295c3.ova", "format":"OVA", "accountId":2, "name":"210-2-ce858db7-4f87-39f8-bf3b-d46dcaf378f1", "wait":10800}}} ] }  
...  
2012-08-31 12:41:14,749 DEBUG [agent.transport.Request] (DirectAgent-238:null) Seq 16-1415446801: Processing: { Ans: , MgmtId: 345052684411, via: 16, Ver: v1, Flags: 110, [{"storage.PrimaryStorageDownloadAnswer":{"installPath":"d40cb5b0-14c9-3ca3-a19b-8d6bbea1aeb4", "templateSize":0, "result":true, "wait":0}}} ] }
```



# Less patience

- Destroying a router got stuck, didn't work
- Database hack and retrying solved it

```
2012-06-13 09:05:36,321 DEBUG [cloud.vm.VirtualMachineManagerImpl] (Job-
Executor-88:job-135158) Destroying vm VM[DomainRouter|r-9218-VM]
...
2012-06-13 09:05:36,387 DEBUG [agent.transport.Request] (Job-Executor-
88:job-135158) Seq 57-57802800: Sending { Cmd , MgmtId: 345050807280,
via: 57, Ver: v1, Flags: 100111, [{"storage.DestroyCommand":{"vmName":"r-
9218-VM", "volume":{"id":10062, "name":"ROOT-
9218", "mountPoint":"/pools/HKPool/kvm-primary", "path":"/mnt/25a4ee3a-
7463-3bca-9e0e-cb0418f91557/09284c44-a940-4ec8-bec4-
a44bf63f3576", "size":2097152000, "type":"ROOT", "storagePoolType":"NetworkF
ilesystem", "storagePoolUuid":"25a4ee3a-7463-3bca-9e0e-
cb0418f91557", "deviceId":0}, "wait":0}}] }
```



# Less patience (continued)

- Wait a minute, job **135158** succeeded?!

```
2012-06-13 09:44:20,863 DEBUG [agent.transport.Request] (Job-Executor-88:job-135158) Seq 57-57802800: Received: { Ans: , MgmtId: 345050807280, via: 57, Ver: v1, Flags: 110, { Answer } }
2012-06-13 09:44:20,863 DEBUG [cloud.vm.VirtualMachineManagerImpl] (Job-Executor-88:job-135158) Cleanup succeeded. Details Success
2012-06-13 09:44:20,883 DEBUG [cloud.storage.StorageManagerImpl] (Job-Executor-88:job-135158) Volume successfully expunged from 208
2012-06-13 09:44:20,883 DEBUG [cloud.vm.VirtualMachineManagerImpl] (Job-Executor-88:job-135158) Expunged VM[DomainRouter|r-9218-VM]
```

# Less patience (continued)

- What really happened here? First, check the agent.log...

```
2012-06-13 09:00:43,501 INFO [cloud.agent.Agent] (Agent-Handler-1:null)
Lost connection to the server. Dealing with the remaining commands...
2012-06-13 09:00:48,502 INFO [cloud.agent.Agent] (Agent-Handler-1:null)
Reconnecting...
2012-06-13 09:00:48,520 INFO [utils.nio.NioClient] (Agent-Selector:null)
Connecting to 192.168.114.102:8250
2012-06-13 09:00:48,799 ERROR [utils.nio.NioConnection] (Agent-
Selector:null) Unable to connect to remote
...
2012-06-13 09:14:48,275 INFO [cloud.agent.Agent] (Agent-Handler-1:null)
Reconnecting...
2012-06-13 09:14:48,276 INFO [utils.nio.NioClient] (Agent-Selector:null)
Connecting to 192.168.114.102:8250
2012-06-13 09:14:50,936 INFO [utils.nio.NioClient] (Agent-Selector:null)
SSL: Handshake done
```

# Less patience (continued)

- Sequence **57802800** appears (in agent.log) and succeeds!

```
2012-06-13 21:44:20,660 DEBUG [cloud.agent.Agent] (agentRequest-Handler-4:null) Request:Seq 57-57802800: { Cmd , MgmtId: 345050807280, via: 57, Ver: v1, Flags: 100111, [{"storage.DestroyCommand":{"vmName":"r-9218-VM", "volume":{"id":10062, "name":"ROOT-9218", "mountPoint":"/pools/HKPool/kvm-primary", "path":"/mnt/25a4ee3a-7463-3bca-9e0e-cb0418f91557/09284c44-a940-4ec8-bec4-a44bf63f3576", "size":2097152000, "type":"ROOT", "storagePoolType":"Network Filesystem", "storagePoolUuid":"25a4ee3a-7463-3bca-9e0e-cb0418f91557", "deviceId":0}, "wait":0}}] }
```

```
...
2012-06-13 21:44:20,672 DEBUG [cloud.agent.Agent] (agentRequest-Handler-4:null) Seq 57-57802800: { Ans: , MgmtId: 345050807280, via: 57, Ver: 1, Flags: 110, [{"Answer":{"result":true, "details":"Success", "wait":0}}] }
```

# Less patience (continued)

- A new challenger job appears!
  - ~20 minutes after job **135158** we have **135208**

```
2012-06-13 09:26:27,038 DEBUG [cloud.vm.VirtualMachineManagerImpl]
(Job-Executor-100:job-135208) Destroying vm VM[DomainRouter|r-9218-VM]
```



# Less patience (continued)

- Job **135208** kicks off sequence **57802807**, which must wait for **57802800**... from job **135158**!!

```
2012-06-13 09:26:27,050 DEBUG [agent.transport.Request] (Job-Executor-100:job-135208) Seq 57-57802807: Waiting for Seq 57802800 Scheduling:
{ Cmd , MgmtId: 345050807280, via: 57, Ver: v1, Flags: 100111,
 [{"storage.DestroyCommand":{"vmName":"r-9218-VM", "volume":
 {"id":10062, "name":"ROOT-9218", "mountPoint":"/pools/HKPool/kvm-
primary", "path":"/mnt/25a4ee3a-7463-3bca-9e0e-cb0418f91557/09284c44-
a940-4ec8-bec4-
a44bf63f3576", "size":2097152000, "type":"ROOT", "storagePoolType":"Network
Filesystem", "storagePoolUuid":"25a4ee3a-7463-3bca-9e0e-
cb0418f91557", "deviceId":0}, "wait":0}}] }
```

# Less patience (concluded)

- New sequence sent after original one succeeded.
  - New sequence fails... because the original one succeeded!

```
2012-06-13 09:44:29,004 DEBUG [agent.manager.AgentAttache]
(AgentManager-Handler-9:null) Seq 57-57802807: Sending now. is current
sequence.
```

```
...
```

```
2012-06-13 09:44:31,788 DEBUG [agent.transport.Request] (AgentManager-
Handler-16:null) Seq 57-57802807: Processing: { Ans: , MgmtId:
345050807280, via: 57, Ver: v1, Flags: 110, [{"Answer":
{"result":false,"details":"org.libvirt.LibvirtException: Storage volume
not found: no storage vol with matching key","wait":0}]} }
```

# Q & A



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