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Jira Report

Course SKU CL210: Red Hat OpenStack Adminis

Version RHOSP13.0-1-20181129

Issue Type(s)

- [x] **All issue types**
- [ ] **Bug**
- [ ] **Task**
- [ ] **Sub-Task**
- [ ] **Instructor Hint**
- [ ] **New Feature**
- [ ] **Improvement**
- [ ] **Only show bugs with available workarounds**
- [ ] **Only show bugs without available workarounds**

Display Fields

- [x] **Severity**

Chapter #

Comma-separated, empty for all chapters, 0 for issues without chapter

Last Update Between: dd / mm / aaaa

dd / mm / aaaa

GENERATE CSV **GENERATE PDF**

SEARCH

NO SPECIFIC CHAPTER

Issue Type: Bug

Priority: Blocker

CL210-462 ipmi is broken on Novello
the ipmi functionality doesn't work on Novello. The BP still points to Ravello and rol-stage. We cannot use the undercloud to control the machine state and power cycle. ***Workaround:*** manual control the power of the machines (controller0, compute0/1, ceph0, computehci0
CL210-465 CH13s05 and CH14s04 IPMI issue
The power state of nodes is failing to acquire. This is the IPMI issue which is not able to get the power state as well as control the states. This is a blocker for Chapter 13 section 05 and Chapter 14 section 04 with setup script is failing to execute successfully.

Priority: Critical

CL210-438 All IdM passwords are expired

The password of all IdM users have expired, including that of the admin user.

Specifically, the expiration date was: *20190121*.

As a result, all lab/demo scripts fail to be executed.

Please provide a new IdM image (probably with no expiration date for the accounts, or really long expiration time.

Workaround: ssh root@utility
kinit admin
Set the password again to RedHat123^

I has to be this password.

Repeat the kinit command for all affected users.

CL210-469 Certificate expired on Oct 23 2020

getting error in lab setup

Utility machine is corrupted

Logs showing nss.conf "syntax error" and certificate error

getcert list shows certificate expired on 10-23-2020

Workaround: Need to update certificate

CL210-472 expired certificates

On utility server some certificates expired on 2021-01-29

ssh root@utility

getcert list

Labs scripts does not work properly.

Priority: Minor

CL210-466 Window size of the console to small
Window size of the console is to small and cannot be resized to a comfortable size. ***Workaround:*** n/a

CL210-467 Different Openstack versions (Havana, Grizzly, Juno etc) are not explained
The course does not mention the different OSP releases by the Openstack names and explains the differences and similarity. ***Workaround:*** discuss and elaborate on these versions

Priority: Defective

CL210-468 lab scripts fail

This is due to either
 * the admin user's password expiring in IDM (running on utility)
 * the IDM certificates having expired

Workaround: This is a dirty workaround.

ssh root@utility

netstat -plnt | grep :88

If nothing is bound to tcp port 88 then run ipactl start

As soon as you see pki-tomcatd starting then hit control c

Verify that krb5kdc is bound to 88/tcp by using netstat -plnt | grep :88

Now use kinit admin to get a kerberos token

It will ask for the password then complain that the password has expired.

YOU MUST SET THE PASSWORD TO RedHat123^

Now your lab scripts will work.

Issue Type: Improvement

Priority: Defective

CL210-429 Introduction: Orientation to the classroom environment

The password of the Red Hat Identity Manager admin = RedHat123^ I believe it's going to be problematic on certain keyboards. Could it be simpler? I mean because of the ^ symbol

CL210-430 Introduction: Orientation to the classroom environment

Regarding stopping at the end of the day, and starting the next day, I have counted 41 commands to be executed, between the two procedures.

Two questions:

You are saying: "This course includes a custom {{rht-overcloud}} systemd service installed on the {{director}} node, which automatically starts the overcloud nodes in the correct order when the student classroom environment is first started each day."

Does this mean that the students only have to worry about shutting down at the end of the day, because when he starts the undercloud, everything else will be taken care of by this service?

This is contradictory information.

2º Is there any way to automate all this 41 commands to shut down the class, and start it the next day? It is time consuming.

3º What happens if I forget to shut it down properly and Ravello stops forcibly my vms? WIll a normal start work?

4º If I don't want to do the 41 commands to start and stop...can I delete my lab, and reprovision next day? Would it be faster?

CL210-432 There is a typo in the Chapter 7, Placement Service

https://role.rhu.redhat.com/rol-rhu/rhz/rhls/course/cl210-13.0/ch07#launch-instance-lecture

I feel there is a typo in the $Chapter 7, Placement Service:
"The placement service was introduced in the Red Hat *OpenShift Platform 10* release of OpenStack."

It should be:
"The placement service was introduced in the Red Hat *OpenStack Platform 11* release of OpenStack."

Below are the reference link to cross check. As per documentation, I didn't find placement service in OpenStack Platform 10.

https://access.redhat.com/documentation/en-us/red_hat_openstack_platform/10/html-single/advanced_overcloud_customization/#sect-Selecting_Networks_to_Deploy

https://access.redhat.com/documentation/en-us/red_hat_openstack_platform/11/html-single/advanced_overcloud_customization/#Arch-Monolithic_Controller
=====

I just mentioned that "placement service" is available in RHOSP 10 or not is not verified by me but RHOSP 10 documents don't talk about it.

Kindly verify the statement "The placement service was introduced in the Red Hat *OpenStack Platform 11* release of OpenStack." and update/correct typo in document.

Regards,
Sarvesh Pandit

Workaround: It should be:
"The placement service was introduced in the Red Hat *OpenStack Platform 11* release of OpenStack."

CHAPTER 1

Issue Type: Bug

Priority: Blocker

CL210-464 CH01s02 IPMI issue
At step 6.2 the ipmitool is not able to recognize the current power state of computer node.

Priority: Defective

CL210-439 Ch01 - Lab: Wrong Security Group requested/created/used
In the Lab of Chapter 01 the exercise requests from students to create an instance with the Security Group "production". However, the lab setup script does not create this group, just the standard "default". Also, in the solution (page 71), the requirements are repeated. However, the actual command is correct and uses the default security group.

CL210-441 Describing Overcloud Architecture
When checking ceph services, ceph-mgr was not running !image-2019-06-09-22-55-31-869.png! systemctl restart ceph-mgr worked ok !image-2019-06-09-22-56-31-376.png! !image-2019-06-09-22-56-47-264.png!
CL210-442 Nodes not starting after unclean shutdown in VT
After unclean shutdown (timer) two nodes don't start, controller and ceph0 After checking the rht-overcloud service in director, I see that this service is seeing ceph0 and controller0 as power on !image-2019-06-10-09-57-43-061.png! ***Workaround:*** I am starting the nodes by hand, will check if everything works as normal

CL210-458 Describing the Undercloud Page 41
ip a | grep -r 'br-ctlplane|eth1' should be ip a | grep -E 'br-ctlplane|eth1'

CL210-461 Impossible NON-US keyboard when accesing instances through Horizon/browser
When you open the console of an instance through Horizon, it's always en_US keyboard. Trying to modify that from inside the instance, not working. Modifying keymap parameter in /etc/nova/nova.conf in allinone to null, or es, not working Modifying the /etc/locale.conf in one of the images, loads es in the instance, but spanish keyboard does not work, you get some error messages like this *Unknown key released (translated set 2* Reading on the internet, it seems to be a bug in noVNC which it makes it impossible in certain versions. I think ours 0,61 is affected. But I can't be sure. Thank you ***Workaround:*** Some suggest use ascii table and some suggest a combination of languages between Foundation and workstation.

CL210-470 Script "lab architecture-lab setup" fails
lab architecture-lab setup is failing with the attached error, tried the below work around but does not seem to help. Login to utility systemctl status chronyd systemctl status ntpd ntpd -q timedatectl set-time '2019-01-01 09:20:20' systemctl stop ntpd.service ipactl ipactl restart kinit admin ipa user-find | grep -i user watch "ipa user-find | grep -i user" kinit admin also update the date to all vms and glance service will be crash, so restart the glance service

Issue Type: Improvement

Priority: Defective

CL210-459 Lab Chapter 1 Step 6.1
--nic net-id=production-network1   Can now be expressed as --network

Issue Type: Instructor Hint

Priority: Minor

CL210-443 GE NAVIGATING THE RED HAT OPENSTACK PLATFORM INFRASTRUCTURE
My students changed the password of IDM, thinking it was a good idea, in the first GE I told them the password has to be exactly as stated in the GE The way to get the proper password back is this command: ldappasswd -ZZ -D 'cn=Directory Manager' -W -S uid=admin,cn=users,cn=accounts,dc=lab,dc=example,dc=net -H ldap://utility.lab.example.com When it asks for LDAP password also, I assumed it was the same. Everything appears to be working correctly, as when they execute kinit admin, and list users, if they use the newly updated password it works. If you try to change the pass of the admin user through the UI in utility.lab.example.com you can't change it. It says "too early to change it again" or similar ;) ***Workaround:*** ldappasswd -ZZ -D 'cn=Directory Manager' -W -S uid=admin,cn=users,cn=accounts,dc=lab,dc=example,dc=net -H ldap://utility.lab.example.com

CHAPTER 2

Issue Type: Improvement

Priority: Defective

CL210-424 Chapter 2 Rabbit MQ Diagrams
https://training-feedback.redhat.com/browse/CL210-411 I suggested some diagrams in this JIRA I beg you to use something similar in the new course.

CL210-445 DESCRIBING SERVICE COMMUNICATION BY MESSAGE BROKER
In the step 9 in the exercise it's not clear to students how to get the suggested output. Also, they question if this is useful somehow. You have to open the file, select that string, and then pipe it, like this example: !image-2019-06-10-16-12-41-919.png!

CL210-450	explain how to Serial Console access to instances, and see the console in the CLI

Maybe it would be a good idea if this is working in our classroom, to teach how to access instance's console, with nova get-serial-console

nova console-log INSTANCEID will show us the console output.

Will show us if the instances are up in the login screen for example, or any output in the console.

If we want to connect to the console, we have to enable the serial console support. Don't have time to do this now, but if we do it, we should be able to use the next command to access the serial console.

!image-2019-06-11-13-01-51-281.png!

[https://access.redhat.com/documentation/en-us/red_hat_openstack_platform/13/pdf/instances_and_images_guide/Red_Hat_OpenStack_Platform-13-Instances_and_Images_Guide-en-US.pdf]

The BLog post of how to enable the serial console:

[https://blog.oddbit.com/post/2014-12-22-accessing-the-serial-console-of-your-nova-servers/]

The output of nova get-console INSTANCEID:

!image-2019-06-11-13-15-28-114.png!

CHAPTER 3

Issue Type: Bug

Priority: Major

CL210-434 Ch03 - Keyston Token Providers, scope etc

In the Token session of chapter 3 books inform students that there are 4 Token provides and 3 scopes.

According to upstream Queens Documentation, there are 4 scopes (we don't mention the system) and just 2 supported provides: UUID and Fernet.

From the upstream site:
{quote}Currently, there are two supported token types, {{UUID}} and {{fernet}}.
(https://docs.openstack.org/keystone/queens/admin/identity-tokens.html)
{quote}
So, either Red Hat supports 4 token provides and 3 scopes, or we need to change this section of the chapter.

Priority: Defective

CL210-444 Managing Project Organization

What is the meaning of this paragraph? Users could be in different projects before domains, using same or different roles, right?

!image-2019-06-10-16-09-49-451.png!

I don't know what it means

CL210-447 GE Verifying and IDM Back-end configuration
In step 5, when students log in the dashboard, they get error 500 ***Workaround:*** Go to controller as root, get ID of the container running horizon: docker ps | grep horizon Restart Horizon: docker restart IDOFCONTAINER
CL210-448 Managing Identity Service Tokens
Page 143 says in the Fernet Keys section "Because tokens should be replaced..." I think it should say "Because keys should be replaced..."

CL210-460 Lab setup fails - Section 3.2: Guided Exercise: Verifying an IdM Back-end Configuration

I'm in "Section 3.2: Guided Exercise: Verifying an IdM Back-end Configuration" of CL210R now.
When I run the command "lab identity-idm setup", I got the the following messages.

```
Verifying user: developer2 ..... FAIL
Verifying user: developer3 ..... FAIL
Verifying user: architect2 ..... FAIL
```

I checked the source code /usr/local/lib/lab-identity-idm and tried to run the following command manually on the workstation (as written at the 64th line in the source code).

```
ssh utility.lab.example.com "echo RedHat123^ | kinit admin"
```

Then I got the message as follows:

```
Password expired. You must change it now.
Enter new password:
kinit: Cannot read password while getting initial credentials
```

Then I run the "kinit admin" command manually again and I gave the password which was same as before.
After that I run the "lab identity-idm setup", it seems to resolve this issue. I got the following messages.

```
Verifying user: developer2 ..... SUCCESS
Verifying user: developer3 ..... SUCCESS
Verifying user: architect2 ..... SUCCESS
```

Is my above solution right?

Workaround: I run the "kinit admin" command manually again and I gave the password which was same as before. After that I run the "lab identity-idm setup", it seems to resolve this issue. I got the following messages.

```
Verifying user: developer2 ..... SUCCESS
```

Verifying user: developer3 ..... SUCCESS
Verifying user: architect2 ..... SUCCESS

Issue Type: Improvement

Priority: Defective

CL210-425	Managing an Integrated IdM Back-end Configuration
I still have no idea of what this table is talking about PasteDeploy? WSGI Pipeline and Server? Maybe it is of paramount importance for the course, if it is, could you please explain a little more this concepts? I have googled it in the past, with very little luck, even to get an abstract idea about it Another thing, I thought policy.json files disappeared? Please check about this !image-2018-10-25-14-05-55-565.png!	

CL210-426	Configuring IdM Integration with TripleO
Set the {{KeystoneLDAPDomainEnable}} flag to {{true}} to enable LDAP domains. In what file do we configure this? Is it in director? What file and what path? Redeployment if we change this later, on Day 2 Operations?	

CL210-427 Managing Project Organization
Whenever we create a user in the command line, we should use this parameter Then we don't need to enter the pass in the CLI {{[user@demo ~]$ }}*{{openstack user create _USER_ --domain _DOMAIN_ --password _PASSWORD_}}* *{{[user@demo ~]$}}* *{{openstack user create _USER_ --domain _DOMAIN_ [--password-prompt]}}***

CL210-446 MANAGING PROJECT ORGANIZATION
When we show commands creating domains, users and groups, shouldn't we use a proper prompt, where students see we are using some admin user to do those tasks? Currently, we use: user@demo $ This is an idea to whatever task we show in the SG, because it happens in many places.

Issue Type: Instructor Hint

Priority: Defective

CL210-449 Fernet rotation diagram
I suggest to include a diagram like this into section about Fernet key rotation: !image-2019-06-11-10-12-07-286.png!

CHAPTER 4

Issue Type: Bug

Priority: Blocker

CL210-433	Not enough space for diskimage-builder on workstation

The diskimage-builder exercise and lab in chapter 4 both fail for all students and myself due to 'no space left on device' partially through the build.

I cleared as much space as I possibly could (down to about ~45% used space) and still got the error despite removing cache and everything else.

I believe the blueprint needs to be changed to double the space on workstation perhaps.

Workaround: None

CHAPTER 5

Issue Type: Bug

Priority: Defective

CL210-435 Ch05 - Authentication with CephX, confusing text in lecture

In the Authentication with CephX section, we see a number of time the following:
{quote}"The Ansible Playbook creates them during installation."
{quote}
Naturally the question is "Which Playbook?"

We haven't mentioned anything about Ansible in the previous chapters, or even at this chapter's previous sections.
 * Is there an ansible playbook used in the TripleO?
 * When is it called?
 * How is it called?
 * Can I modify it?

I filed a Jira but I need some answers in the mean time.

Issue Type: Improvement

Priority: Minor

CL210-436 Ch05 - Useless(?) note

In page 233 there is a note about the used by Swift ports (600x).

Since Swift doesn't use those ports any more (at least in the RHOSP, because upstream documentation insists that it does ([https://docs.openstack.org/swift/latest /admin_guide.html),] I recommend to remove this Note from the SG and probably add it in the IG.

Also, since there is a Bug report (https://training-feedback.redhat.com/browse/CL210-247) for RHOSP 6, it means that the usage or ports 600x are obsolete since at least Juno).

CL210-437 Ch05 - Authentication with CephX, confusing text in lecture

In the Authentication with CephX section, we see a number of time the following:
{quote}"The Ansible Playbook creates them during installation."
{quote}
Naturally the question is "Which Playbook?"

We haven't mentioned anything about Ansible in the previous chapters, or even at this chapter's previous sections.
 * Is there an ansible playbook used in the TripleO?
 * When is it called?
 * How is it called?
 * Can I modify it?

Priority: Defective

CL210-455 GE Managing Shared File Systems

We have the students provision and mount shares using the CephFS native driver, which according to this document is Tech Preview: "Red Hat CephFS native driver is available only as a _Technology Preview_, and therefore is not fully supported by Red Hat."

[https://access.redhat.com/documentation/en-us/red_hat_openstack_platform/13/html-single/cephfs_via_nfs_back_end_guide_for_the_shared_file_system_serv/index]

I think this is not desirable.

The supported config is NFS with Ganesha:

"The Shared File System service (manila) supports mounting shared file systems backed by a Ceph File System (CephFS) via the NFSv4 protocol. NFS-Ganesha servers operating on Controller nodes are used to export CephFS to tenants with High Availability (HA). Tenants are isolated from one another and may only access CephFS through the provided NFS gateway interface. This new feature is fully integrated into director, thereby enabling CephFS back end deployment and configuration for the Shared File System service”

I suggest we change the exercise to one using NFS with Ganesha and Ceph

CHAPTER 6

Issue Type: Bug

Priority: Defective

CL210-440 Ch06 - Wrong VLAN information?

I have a "?" in the title because I don't consider myself a subject matter expert.

In page 293 of the SG, under the VLANS network we read:
{quote}A 32-bit field, placed in the Ethernet frame header, includes a Tag Protocol Identifier (TPID). The value of that{color:#d04437} *32-bit* field is 0x8100{color}. It includes a VLAN Identifier field indicating the virtual segment to which this frame belongs. Excluding two reserved values, the 12-bit size of the VLAN Identifier allows a maximum of 4094 unique VLANs on a single LAN segment.
{quote}
I believe there are a few mistakes and some missing parts.

My understanding is that the 32bit field is divided in 2 16bits parts:
TPID and TCID

So, the line should be:
{quote}A 32-bit field, placed in the Ethernet frame header, includes the Tag Protocol Identifier (TPID) and the Tag Control Information (TCI) sub fields. The value of TPID{color:#707070} is 0x8100.{color}

The TCI field is 16bits long and 4 bits are used for other information. Thus, the VLAN Identifier is 12bits long allowing a maximum of 4094 unique VLANs on a single LAN segment.
{quote}
Or something like that.

CL210-451 DESCRIBING NETWORK PROTOCOL TYPES
SG Page 292 VT: "On compute0 use the ps command to list the OVN processes. Notice that the only OVN processes are metadata agents:" I was expecting to see ovn-controller, and it is: !image-2019-06-11-20-10-55-663.png!

Issue Type: Improvement

Priority: Defective

CL210-452 GE DESCRIBING NETWORK PROTOCOL TYPES
In Step 5 we have the students find NB and SB databases IP address and then use these commands: [root@compute0 ~]# export OVN_SB_DB=tcp:172.24.1.50:6642 [root@compute0 ~]# export OVN_NB_DB=tcp:172.24.1.50:6641 We should tell the students that if we don't export these environment variables, we won't be able to obtain proper output when we use these later commands(it's explained in next section, but when doing this GE, they don't know): Step 7.1 [root@compute0 ~]# ovn-sbctl lflow-list > flow.txt Step 9 [root@compute0 ~]# ovn-nbctl show These commands use those env variables to communicate with these SB & NB Databases
CL210-453 INTRODUCING OPEN VIRTUAL NETWORKING (OVN)
In the figure 6.4, in the controller node it says MC2 Plugin, it should be ML2

Priority: Optional

CL210-454 OVSDB check transactions

ovsdb-tool show-log

The {{ovsdb-tool}} utility's {{show-log}} command displays the transaction records in an OVSDB database file in a human-readable format. By default, it shows minimal detail, but adding the option {{-m}} once or twice increases the level of detail. In addition to the transaction data, it shows the time and date of each transaction and any "comment" added to the transaction by the client. The comments can be helpful for quickly understanding a transaction; for example, {{ovs-vsctl}} adds its command line to the transactions that it makes

[http://docs.openvswitch.org/en/latest/ref/ovsdb.7/]

It is very nice to see the transactions, connecting ports, etc...it may be included in one of the GE

CHAPTER 7

Issue Type: Bug

Priority: Defective

CL210-463 "lab computeresources-review setup" is failing
"lab computeresources-review setup" is failing at the last step where it is trying to stop compute0 server as attached. Request you to please have a look on it. Regards, Wasim

Issue Type: Improvement

Priority: Defective

CL210-456 GE Describing the launch instance process
Step 5 I believe the file the students have to check is nova-placement-api.log

CL210-457 GE Administering Compute nodes

Problem: Migrating instance never ends

The issue was that one of the students wanted to specify the --target-host option

When that option is used, FQDN of the source and destination hosts should be used.

If we have a look at this command:

nova help host-evacuate-live

there is a warning:

"WARNING: Use a Fully qualified domain name if you only want to live migrate from a specific host"

In step 4.3 we should use FQDN. So then students never fail this step.

AFAIK, there is no command in OpenStack to cancel a migration if something like this happens. It would also a good idea to explain this in the troubleshooting chapter

BTW, the workaround solution does not restart the instances, they will be uptime all the time..

Workaround: The solution for never ending migration is going to the source compute node and restart nova-compute and libvirt.
If this is the first time this issue happens, it will be compute0
So we go to compute0 and issue:
docker ps | grep nova
we then execute

docker restart NOVA-COMPUTE-ID

And then

docker restart NOVA-LIBVIRT-ID

That will stop the migration, and then we can restart the migration using FQDN of the source and destination compute node.

CHAPTER 8

Issue Type: Bug

Priority: Defective

CL210-473	CH08s05 lab script are having issues.
The setup lab script of this section is failing for two tasks. Also, when the grading script is executed it passes for one task which is not completed. The solve script also fails for the two tasks failing in the setup script but the grading script is passing correctly.	

Issue Type: Improvement

Priority: Defective

CL210-428 Creating Application Stacks

At the end, we mention we can do overcommit.

{{[user@demo ~]$ }}*{{crudini --set /etc/nova/nova.conf DEFAULT disk_allocation_ratio 2.0}}*

[https://docs.openstack.org/arch-design/design-compute/design-compute-overcommit.html]

We should mention somewhere in the SG the default overcommit ratios.

And specially in this section, when we are giving instructions on how to change them. And wrongly, because if the default cpu overcommit is 16, we are setting it up to 8 in this section.

I have one question asked plenty of times.

When we suggest to change a config file, like we do here. Do we mean we should update that in the heat templates for a redeployment?

I understand, it is not a recommendation from Red Hat to alter the values of any Openstack node manually, is it?