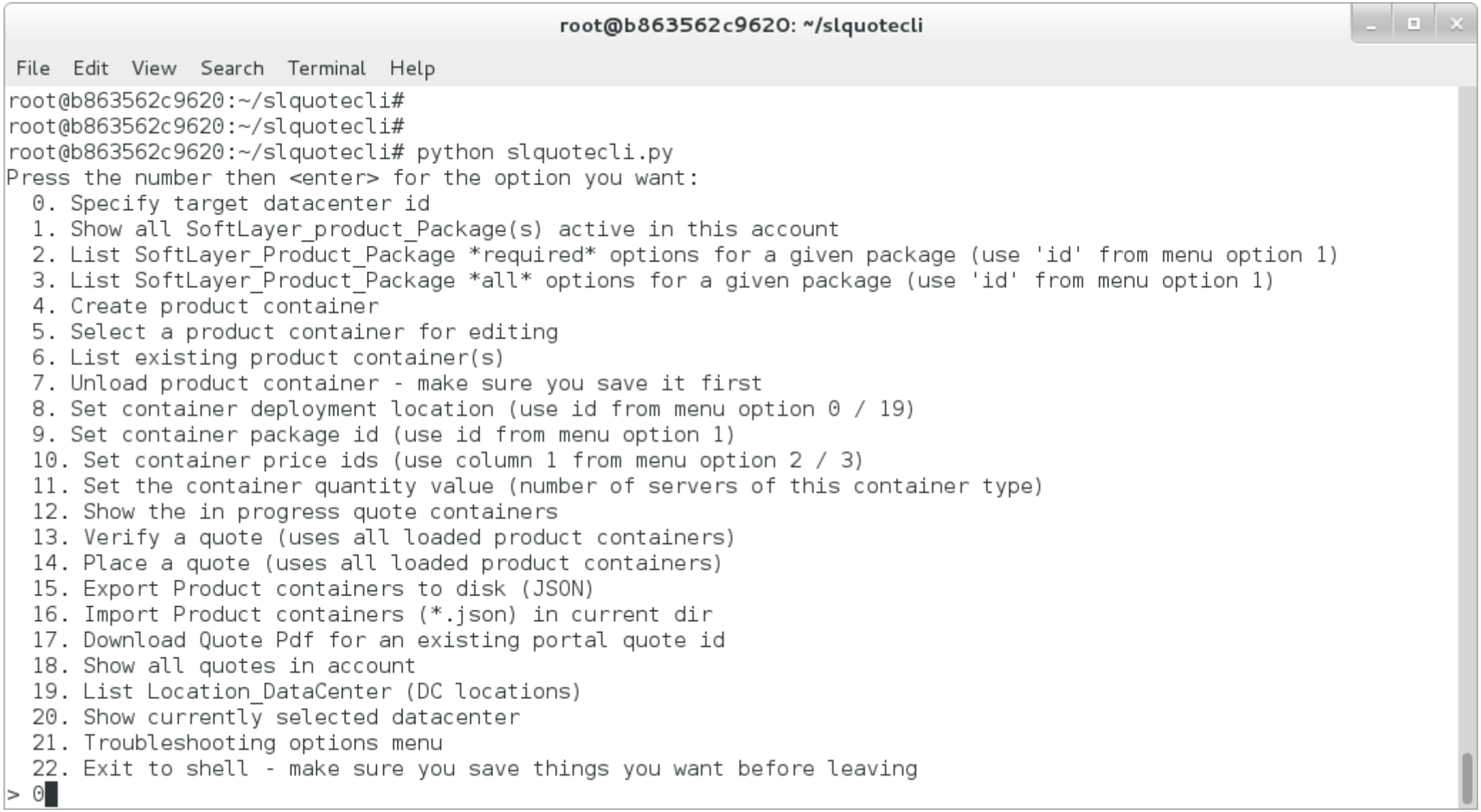
SLquoteCli

Full walk through

https://github.com/ewann/slquotecli

git checkout a589b4fed54504b6b0351077fcc4a7f0a0f413f1
gets the code that matches these slides

Option 0 - Choose target datacenter



Choose a datacenter from the list

root@b863562c9620: ~/slquotecli

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```
    {   'id': 3, 'longName': 'Dallas 1', 'name': 'dal01'},
    {   'id': 154770, 'longName': 'Dallas 2', 'name': 'dal02'},
    {   'id': 167092, 'longName': 'Dallas 4', 'name': 'dal04'},
    {   'id': 138124, 'longName': 'Dallas 5', 'name': 'dal05'},
    {   'id': 154820, 'longName': 'Dallas 6', 'name': 'dal06'},
    {   'id': 142776, 'longName': 'Dallas 7', 'name': 'dal07'},
    {   'id': 449494, 'longName': 'Dallas 9', 'name': 'dal09'},
    {   'id': 449506, 'longName': 'Frankfurt 2', 'name': 'fra02'},
    {   'id': 352494, 'longName': 'Hong Kong 2', 'name': 'hkg02'},
    {   'id': 142775, 'longName': 'Houston 2', 'name': 'hou02'},
    {   'id': 358694, 'longName': 'London 2', 'name': 'lon02'},
    {   'id': 449596, 'longName': 'Melbourne 1', 'name': 'mel01'},
    {   'id': 449600, 'longName': 'Mexico 1', 'name': 'mex01'},
    {   'id': 815394, 'longName': 'Milan 1', 'name': 'mil01'},
    {   'id': 449610, 'longName': 'Montreal 1', 'name': 'mon01'},
    {   'id': 449500, 'longName': 'Paris 1', 'name': 'par01'},
    {   'id': 168642, 'longName': 'San Jose 1', 'name': 'sjc01'},
    {   'id': 1004995, 'longName': 'San Jose 3', 'name': 'sjc03'},
    {   'id': 983497, 'longName': 'Sao Paulo 1', 'name': 'sao01'},
    {   'id': 18171, 'longName': 'Seattle 1', 'name': 'sea01'},
    {   'id': 224092, 'longName': 'Singapore 1', 'name': 'sng01'},
    {   'id': 449612, 'longName': 'Sydney 1', 'name': 'syd01'},
    {   'id': 449604, 'longName': 'Tokyo 2', 'name': 'tok02'},
    {   'id': 448994, 'longName': 'Toronto 1', 'name': 'tor01'},
    {   'id': 37473, 'longName': 'Washington 1', 'name': 'wdc01'},
    {   'id': 957095, 'longName': 'Washington 4', 'name': 'wdc04'}]
Specify datacenter id:
> 352494
```

Option 1 - List available server “packages”

root@b863562c9620: ~/slquotecli

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```
    {   'id': 957095, 'longName': 'Washington 4', 'name': 'wdc04'}]
Specify datacenter id:
> 352494
You chose "352494"
  0. Specify target datacenter id
  1. Show all SoftLayer_product_Package(s) active in this account
  2. List SoftLayer_Product_Package *required* options for a given package (use 'id' from menu option 1)
  3. List SoftLayer_Product_Package *all* options for a given package (use 'id' from menu option 1)
  4. Create product container
  5. Select a product container for editing
  6. List existing product container(s)
  7. Unload product container - make sure you save it first
  8. Set container deployment location (use id from menu option 0 / 19)
  9. Set container package id (use id from menu option 1)
  10. Set container price ids (use column 1 from menu option 2 / 3)
  11. Set the container quantity value (number of servers of this container type)
  12. Show the in progress quote containers
  13. Verify a quote (uses all loaded product containers)
  14. Place a quote (uses all loaded product containers)
  15. Export Product containers to disk (JSON)
  16. Import Product containers (*.json) in current dir
  17. Download Quote Pdf for an existing portal quote id
  18. Show all quotes in account
  19. List Location_DataCenter (DC locations)
  20. Show currently selected datacenter
  21. Troubleshooting options menu
  22. Exit to shell - make sure you save things you want before leaving
> 1
```

We'll use package 253 in this example

root@b863562c9620: ~/slquotecli

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```
   {   'id': 52,
       'name': 'Specialty Server: 4u Mass Storage Xeon 5500 (Nehalem) Series'},
   {   'id': 174, 'name': 'Network Gateway Appliance'},
   {   'id': 222, 'name': 'Performance'},
   {   'id': 265, 'name': 'Dual E5-2600 Series (12 Drives)'},
   {   'id': 253, 'name': 'Dual E5-2600 v3 Series (4 Drives)'},
   {   'id': 44,
       'name': 'Specialty Server: Mass Storage: Xeon 5500 (Nehalem) Series'},
   {   'id': 218, 'name': 'iSCSI Storage'}]

 0. Specify target datacenter id
 1. Show all SoftLayer_product_Package(s) active in this account
 2. List SoftLayer_Product_Package *required* options for a given package (use 'id' from menu option 1)
 3. List SoftLayer_Product_Package *all* options for a given package (use 'id' from menu option 1)
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 11. Set the container quantity value (number of servers of this container type)
 12. Show the in progress quote containers
 13. Verify a quote (uses all loaded product containers)
 14. Place a quote (uses all loaded product containers)
 15. Export Product containers to disk (JSON)
 16. Import Product containers (*.json) in current dir
 17. Download Quote Pdf for an existing portal quote id
```

Option 2 - List all the components of a package

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```
   {   'id': 44,
       'name': 'Specialty Server: Mass Storage: Xeon 5500 (Nehalem) Series'},
   {   'id': 218, 'name': 'iSCSI Storage'}]

 0. Specify target datacenter id
 1. Show all SoftLayer_product_Package(s) active in this account
 2. List SoftLayer_Product_Package *required* options for a given package (use 'id' from menu option 1)
 3. List SoftLayer_Product_Package *all* options for a given package (use 'id' from menu option 1)
 4. Create product container
 5. Select a product container for editing
 6. List existing product container(s)
 7. Unload product container - make sure you save it first
 8. Set container deployment location (use id from menu option 0 / 19)
 9. Set container package id (use id from menu option 1)
 10. Set container price ids (use column 1 from menu option 2 / 3)
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 12. Show the in progress quote containers
 13. Verify a quote (uses all loaded product containers)
 14. Place a quote (uses all loaded product containers)
 15. Export Product containers to disk (JSON)
 16. Import Product containers (*.json) in current dir
 17. Download Quote Pdf for an existing portal quote id
 18. Show all quotes in account
 19. List Location_DataCenter (DC locations)
 20. Show currently selected datacenter
 21. Troubleshooting options menu
 22. Exit to shell - make sure you save things you want before leaving
> 2
```
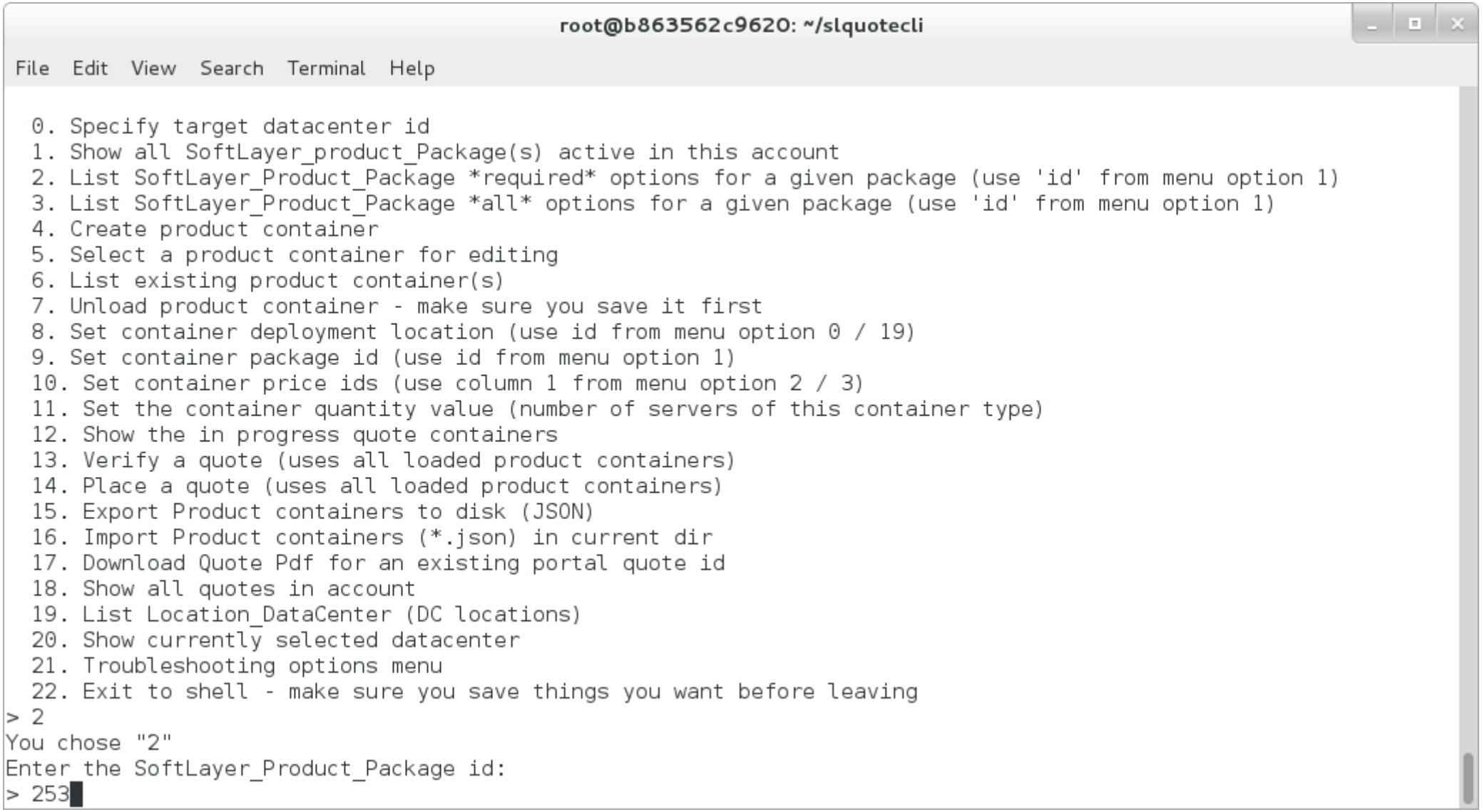
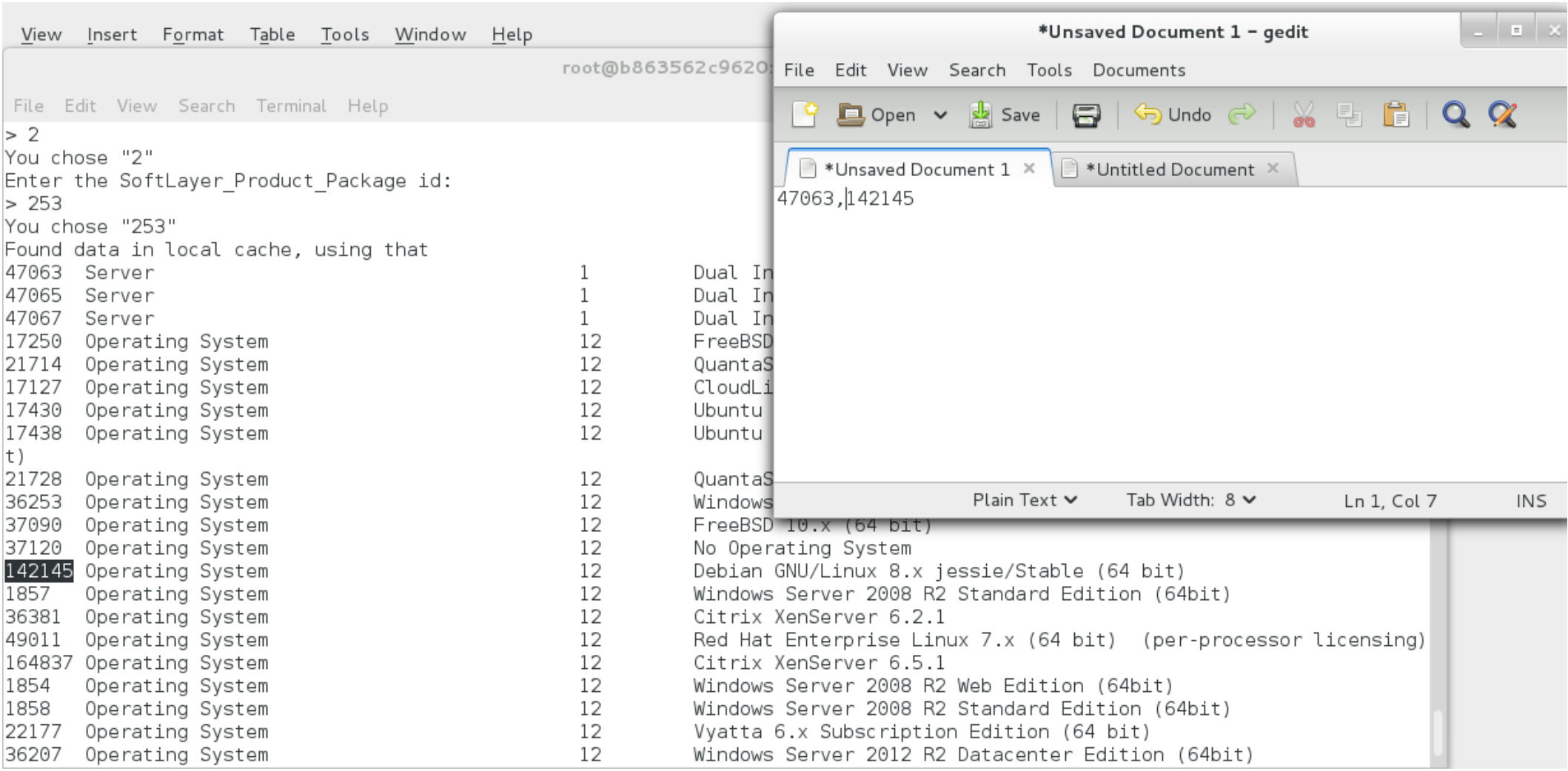
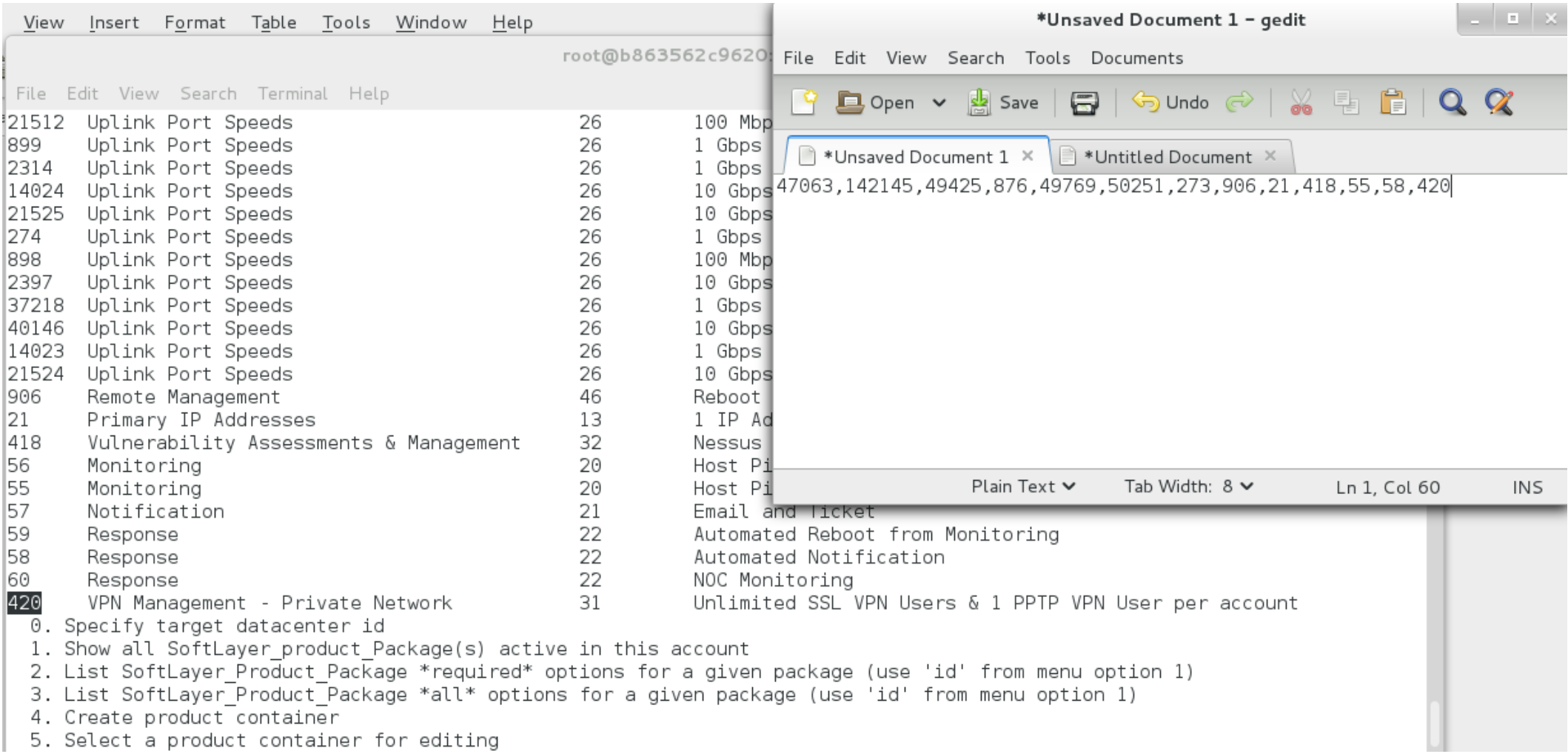

Specify server package 253



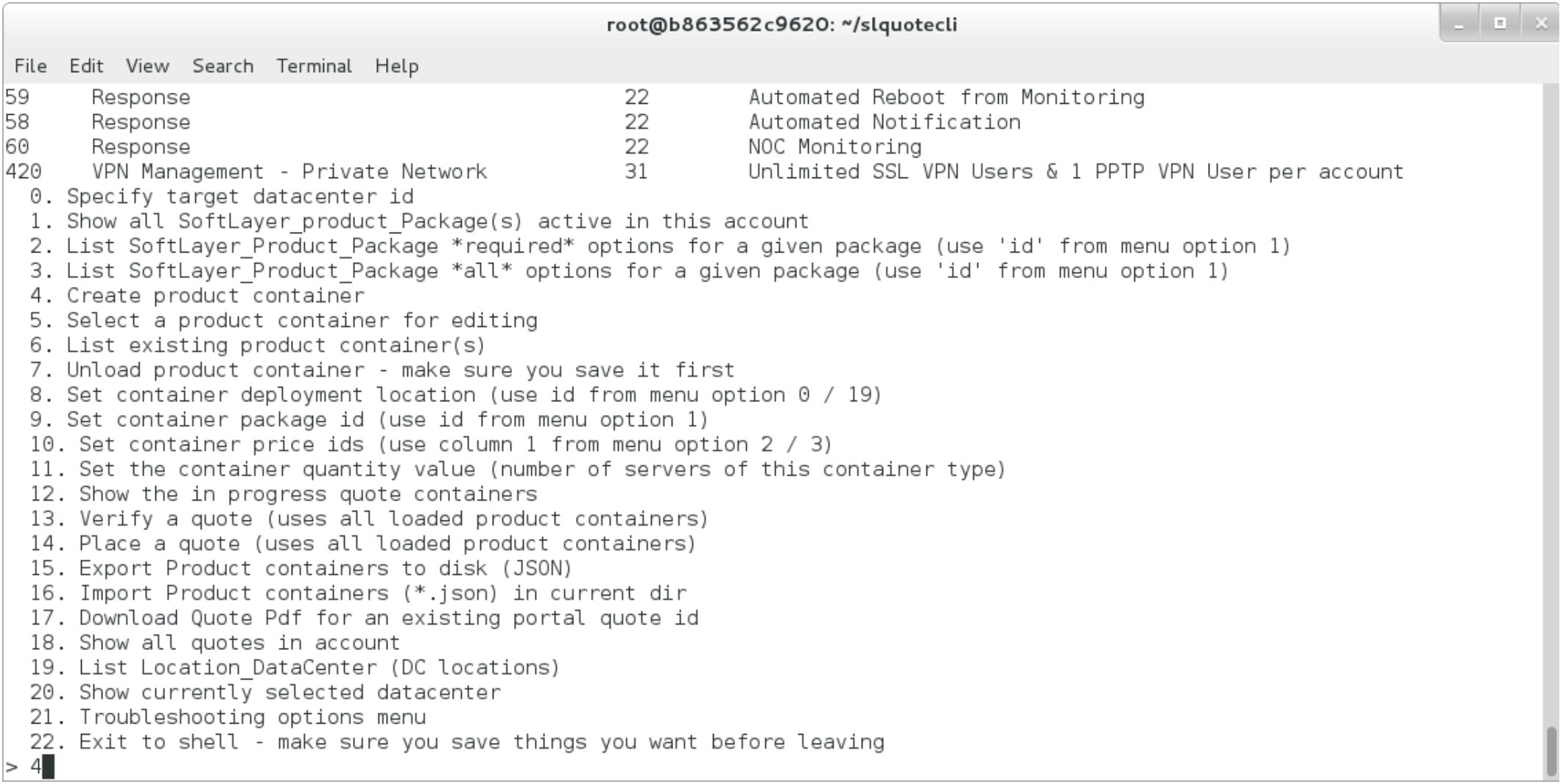
Build a list of mandatory options, one from each category



...continue down the list...



Option 4 - Create a product container



Name the container for later reference

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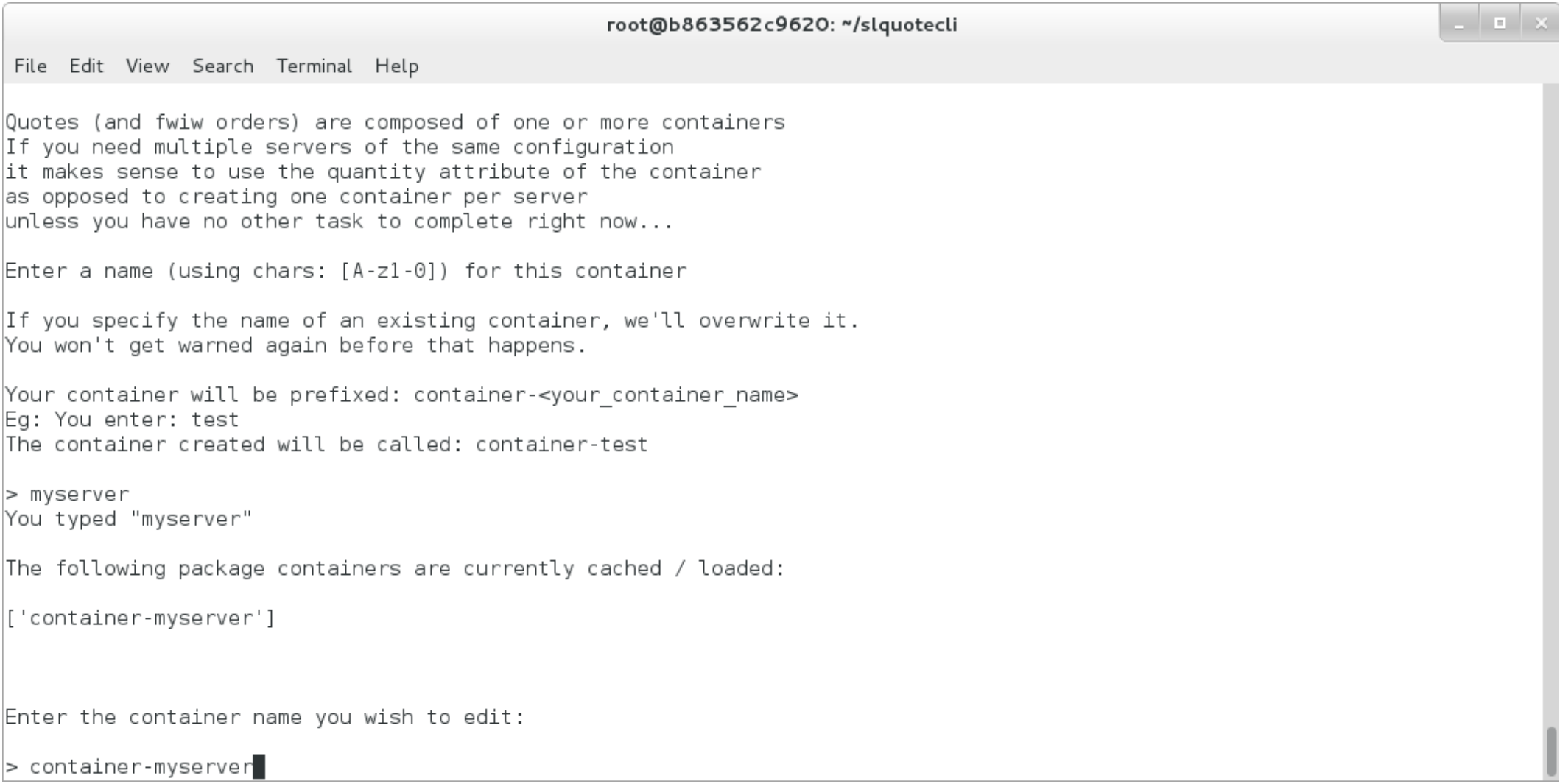
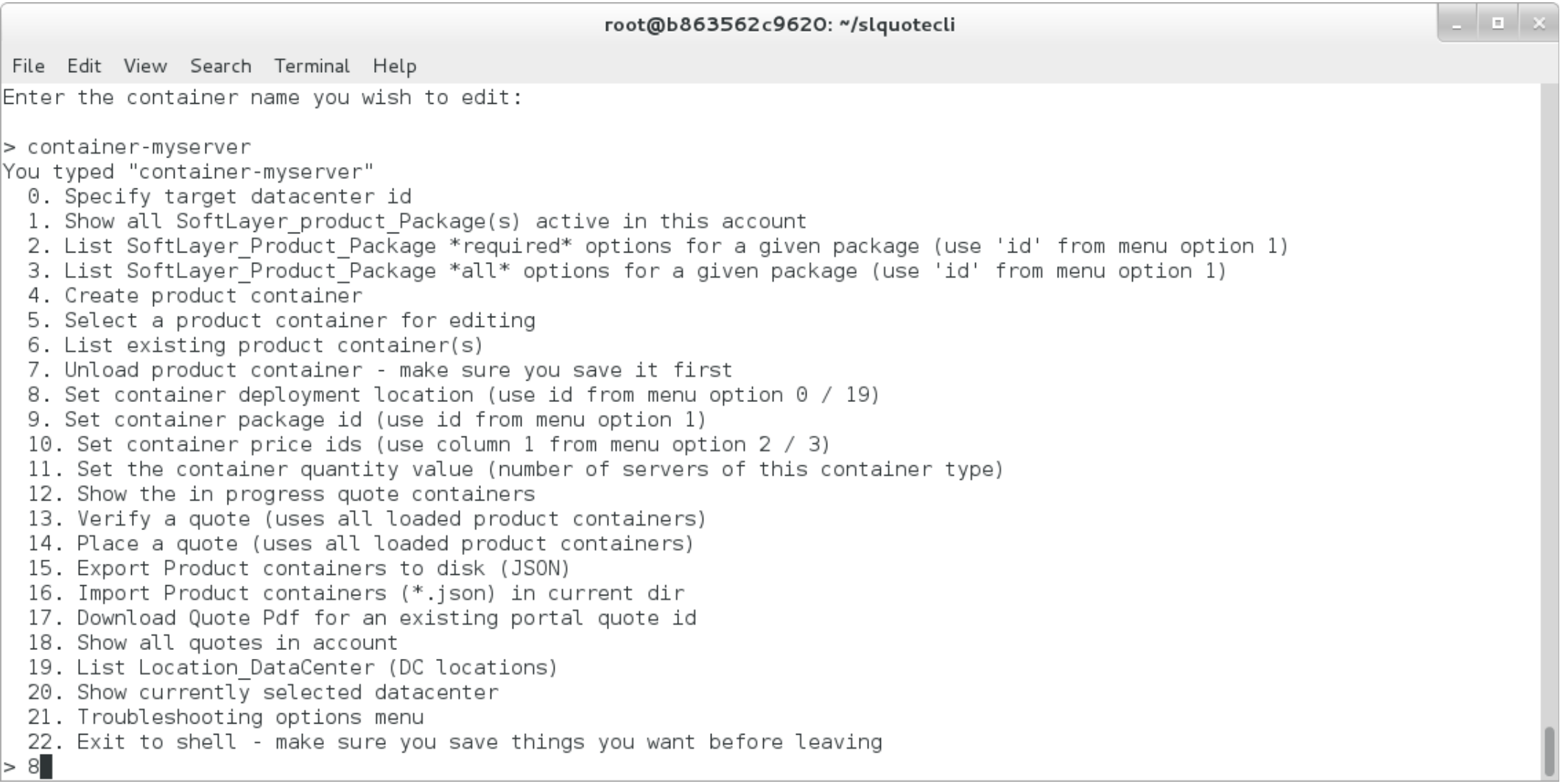
```
  20. Show currently selected datacenter
  21. Troubleshooting options menu
  22. Exit to shell - make sure you save things you want before leaving
> 4
You chose "4"

The following package containers are currently cached / loaded:

[]



Quotes (and fwiw orders) are composed of one or more containers
If you need multiple servers of the same configuration
it makes sense to use the quantity attribute of the container
as opposed to creating one container per server
unless you have no other task to complete right now...

Enter a name (using chars: [A-z1-0]) for this container

If you specify the name of an existing container, we'll overwrite it.
You won't get warned again before that happens.

Your container will be prefixed: container-<your_container_name>
Eg: You enter: test
The container created will be called: container-test

> myserver
```

Specify the container for modification, using the full container name



Option 8 – We'll specify the datacenter id where this server container should be deployed...



Enter the data center id we identified earlier...

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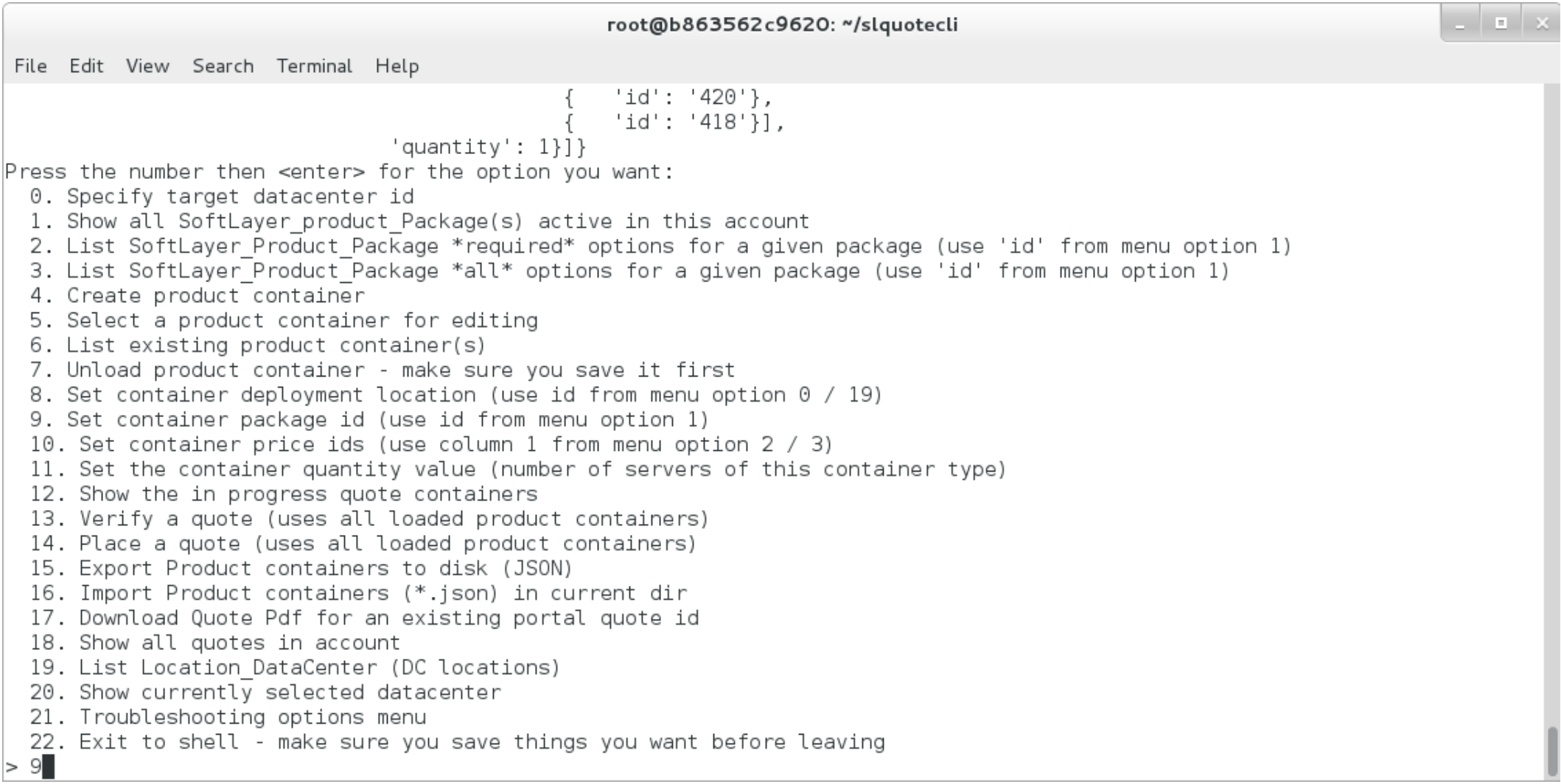
```
The currently selected product container is:

container-myserver


The currently selected & in progress quote container looks like:
{   'orderContainers': [   {   'containerIdentifier': 'container-myserver',
                               'hardware': [],
                               'location': 3,
                               'packageId': 46,
                               'prices': [   {   'id': '1642'},
                                             {   'id': '1644'},
                                             {   'id': '905'},
                                             {   'id': '272'},
                                             {   'id': '50231'},
                                             {   'id': '21'},
                                             {   'id': '13887'},
                                             {   'id': '21014'},
                                             {   'id': '55'},
                                             {   'id': '57'},
                                             {   'id': '58'},
                                             {   'id': '420'},
                                             {   'id': '418'}],
                               'quantity': 1}]}

Enter the datacenter id you would like to specify for the selected container:

> 352494
```

Option 9 - Set the package id for the server container...



Id 253 – the one we chose earlier

root@b863562c9620: ~/slquotecli

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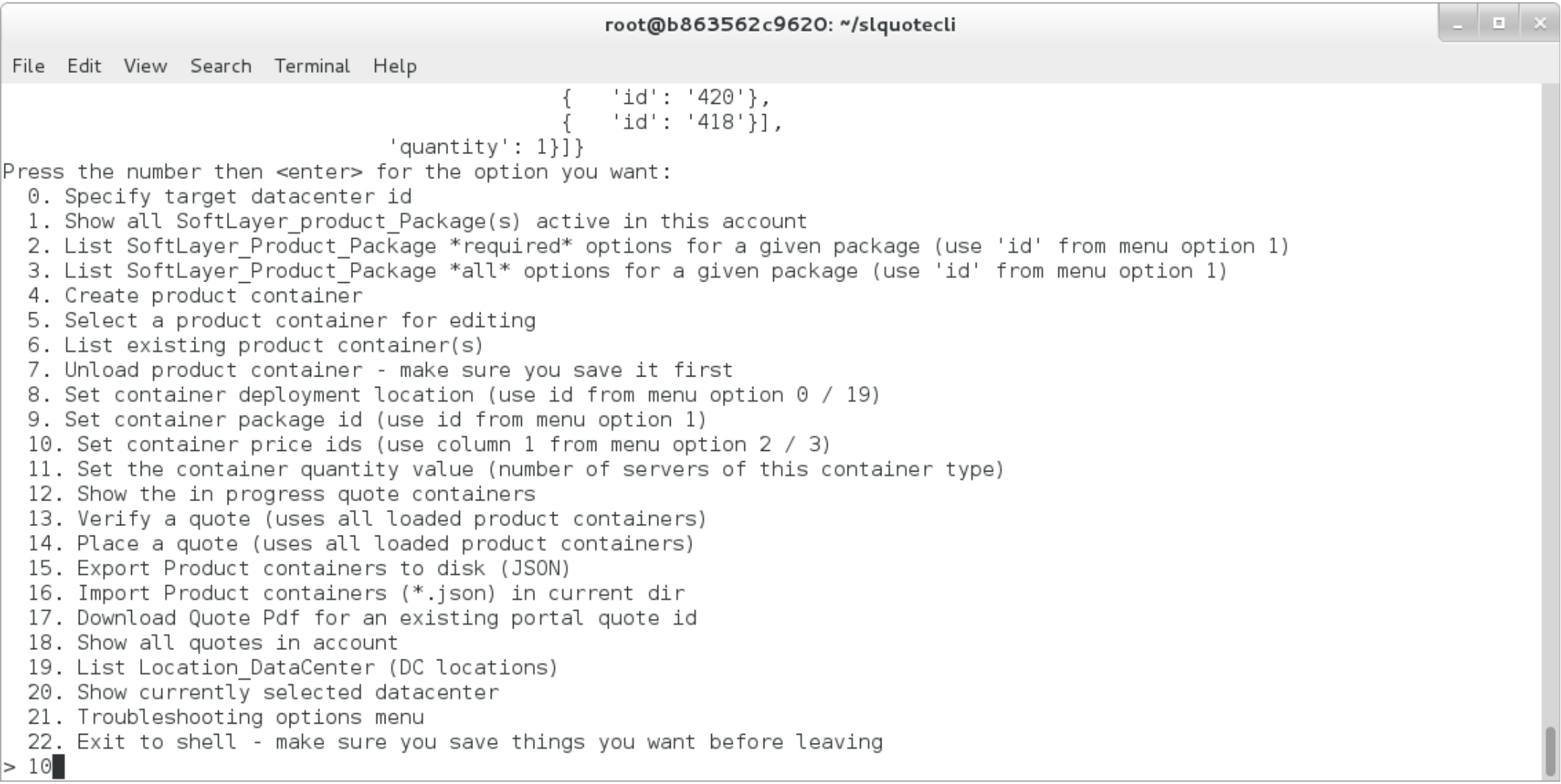
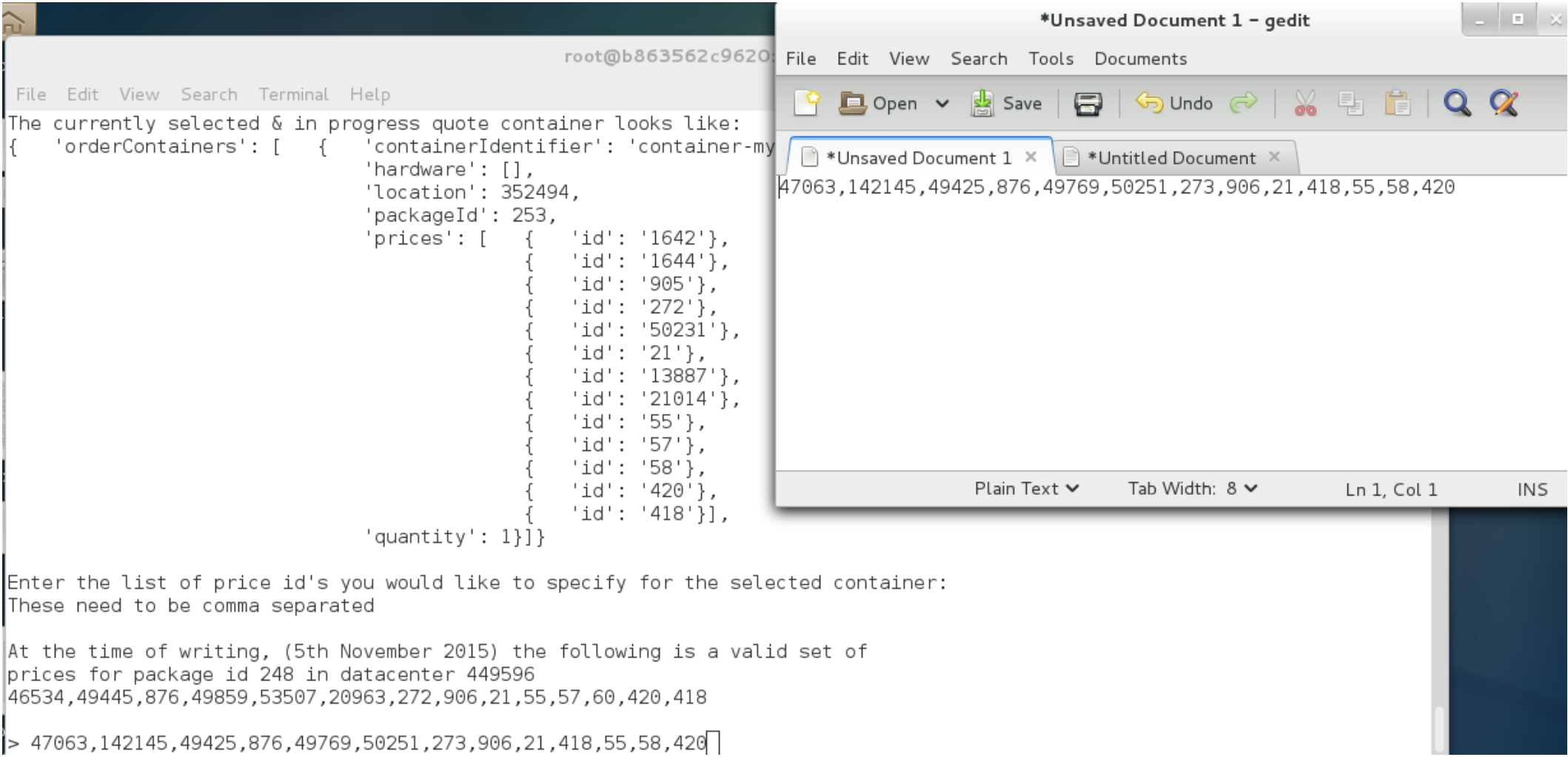
```
The currently selected product container is:

container-myserver


The currently selected & in progress quote container looks like:
{   'orderContainers': [   {   'containerIdentifier': 'container-myserver',
                               'hardware': [],
                               'location': 352494,
                               'packageId': 46,
                               'prices': [   {   'id': '1642'},
                                             {   'id': '1644'},
                                             {   'id': '905'},
                                             {   'id': '272'},
                                             {   'id': '50231'},
                                             {   'id': '21'},
                                             {   'id': '13887'},
                                             {   'id': '21014'},
                                             {   'id': '55'},
                                             {   'id': '57'},
                                             {   'id': '58'},
                                             {   'id': '420'},
                                             {   'id': '418'}],
                               'quantity': 1}]}

Enter the package id you would like to specify for the selected container:

> 253
```

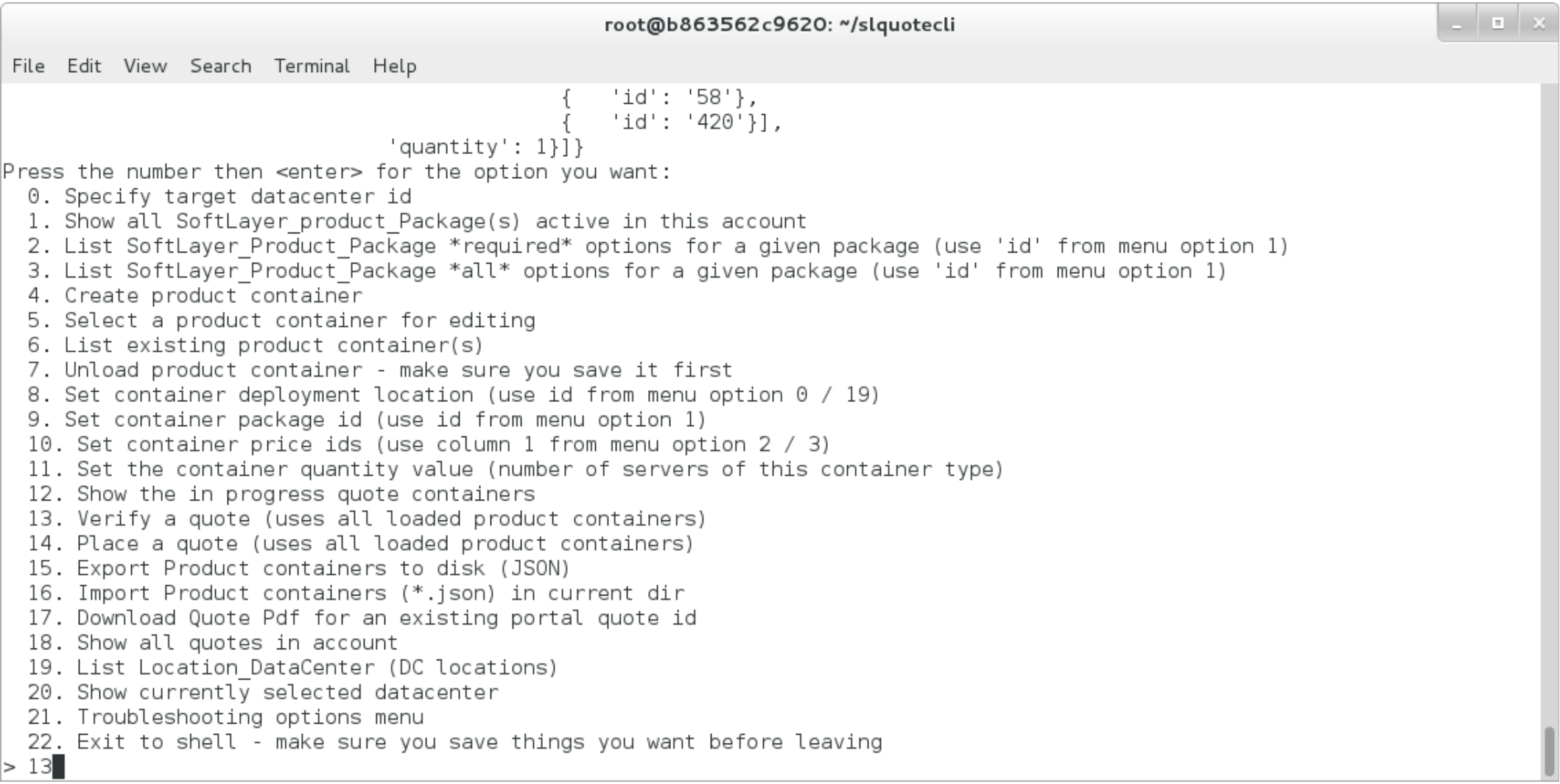
Option 10 – input server components...



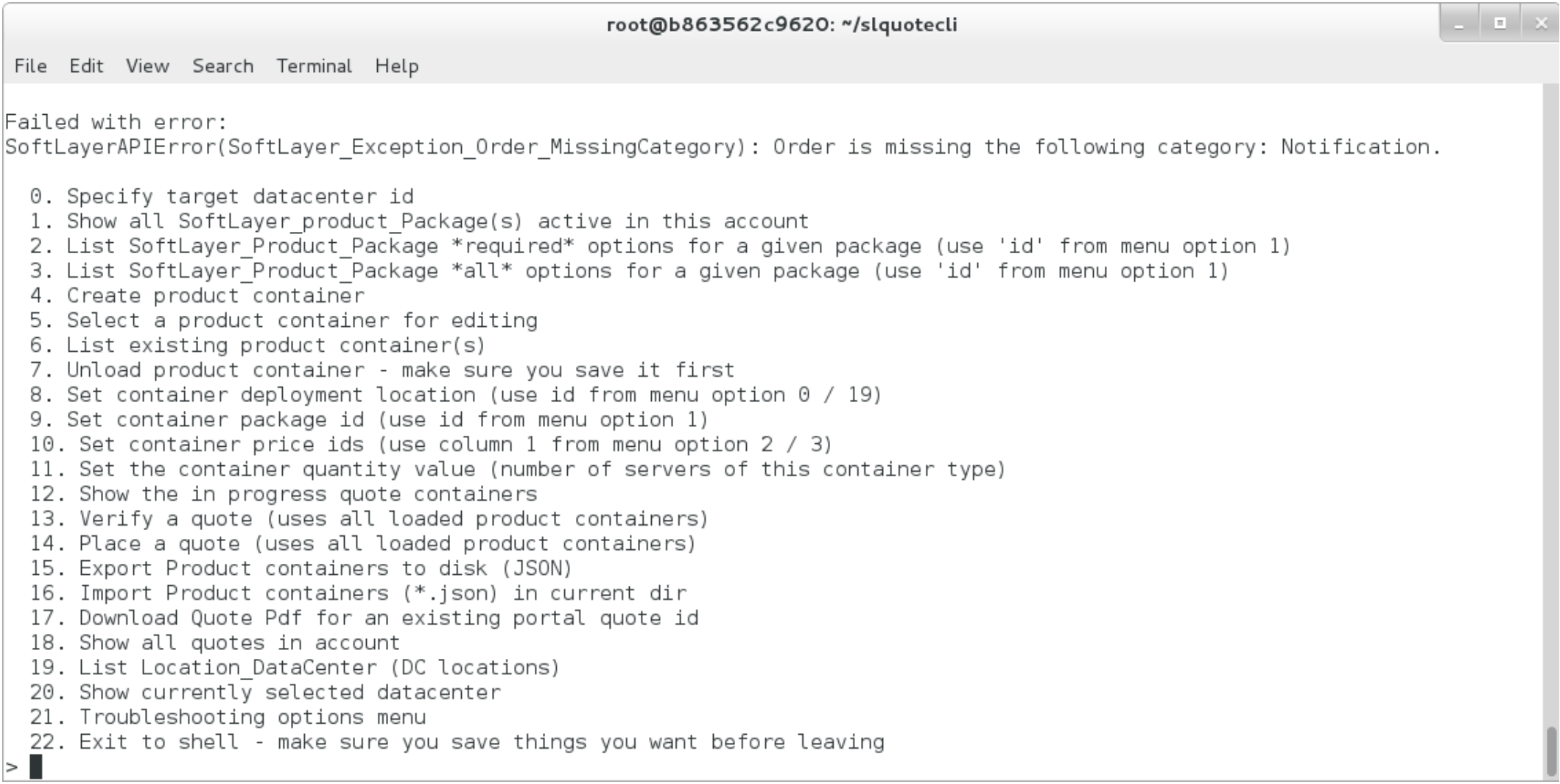
... using the list we built earlier
Hint:
Ctrl-Shft-V is paste in linux terminal



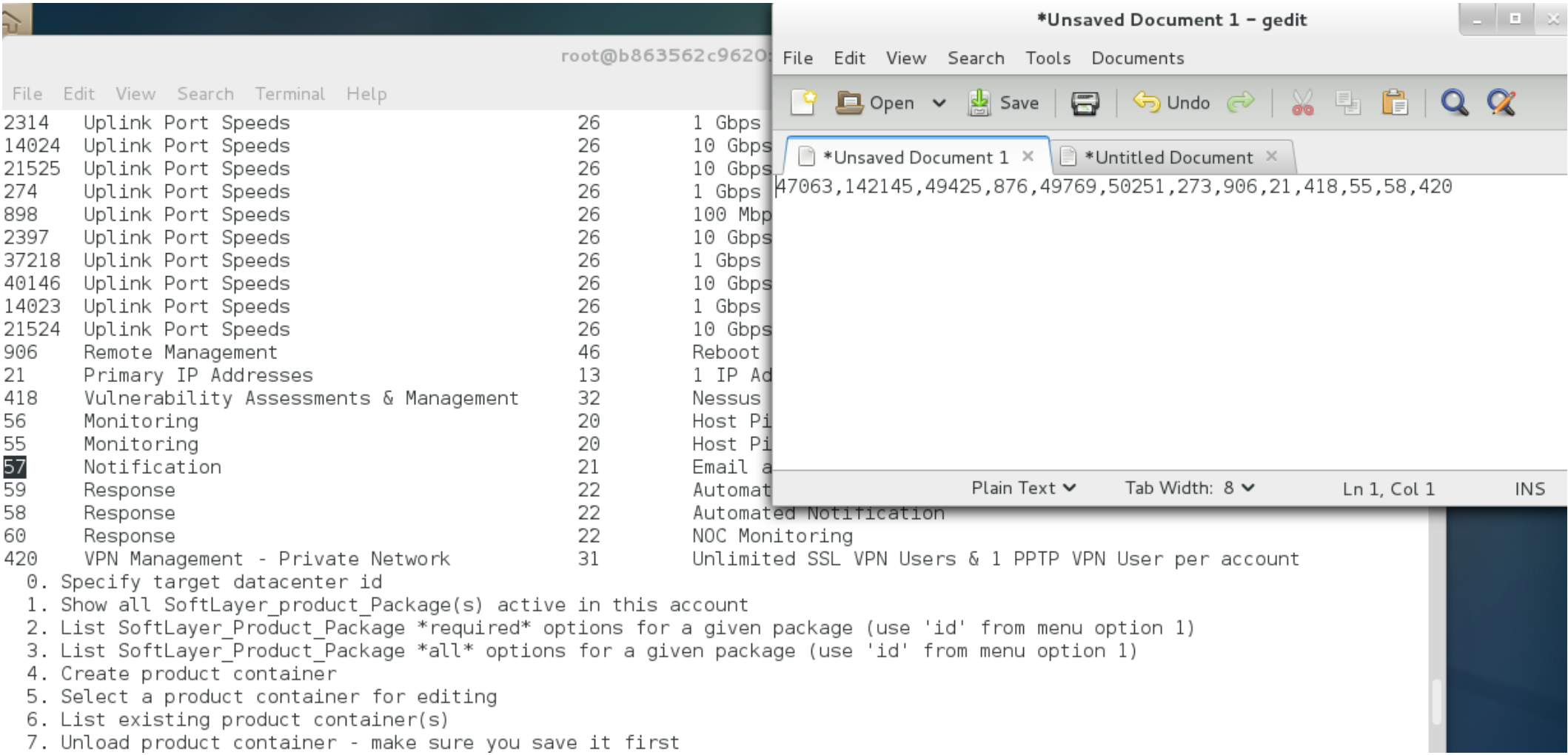
Option 13 – verify the quote...



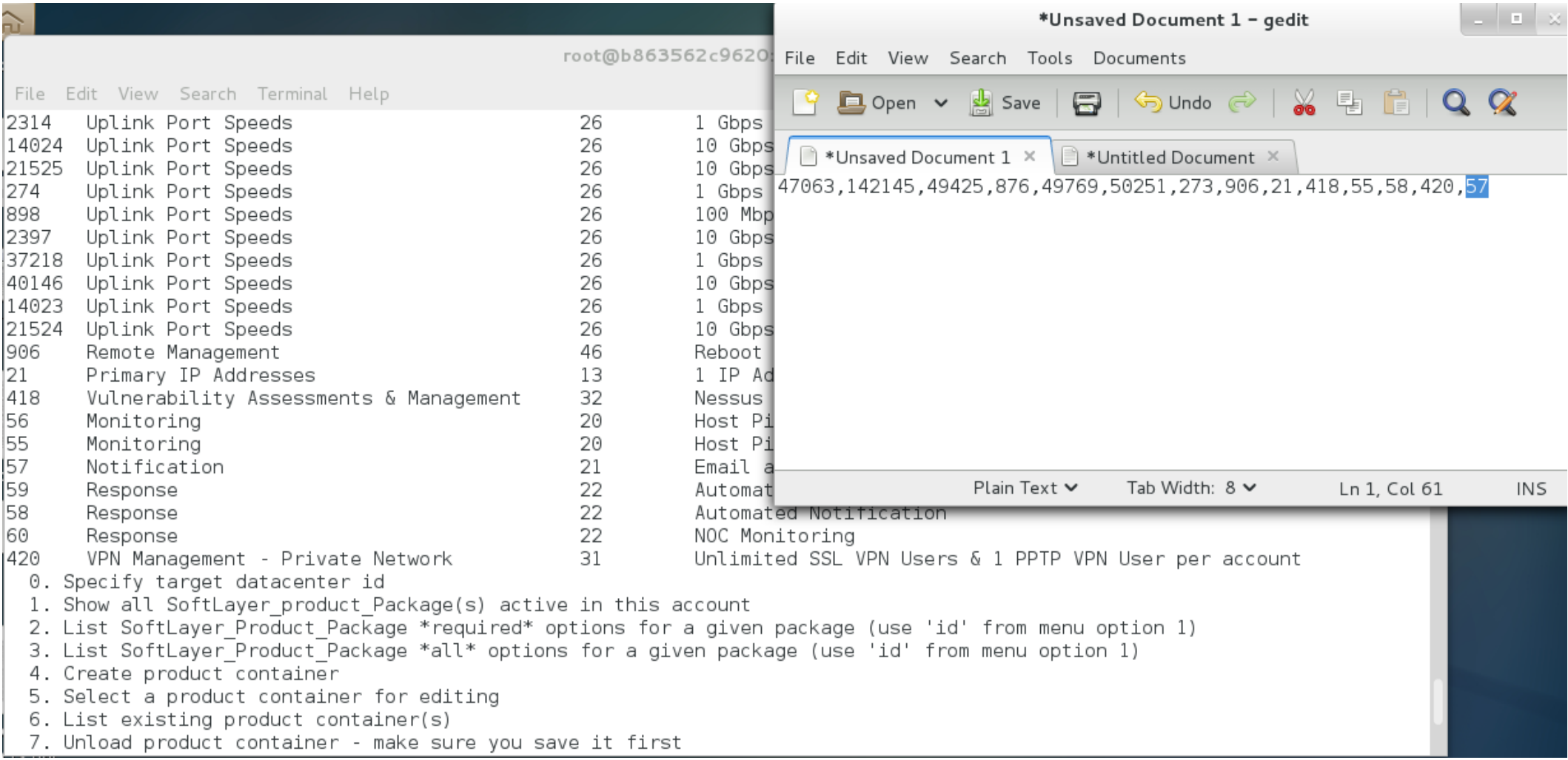
Verification failed! We didn't enter an item for the category “Notification”...



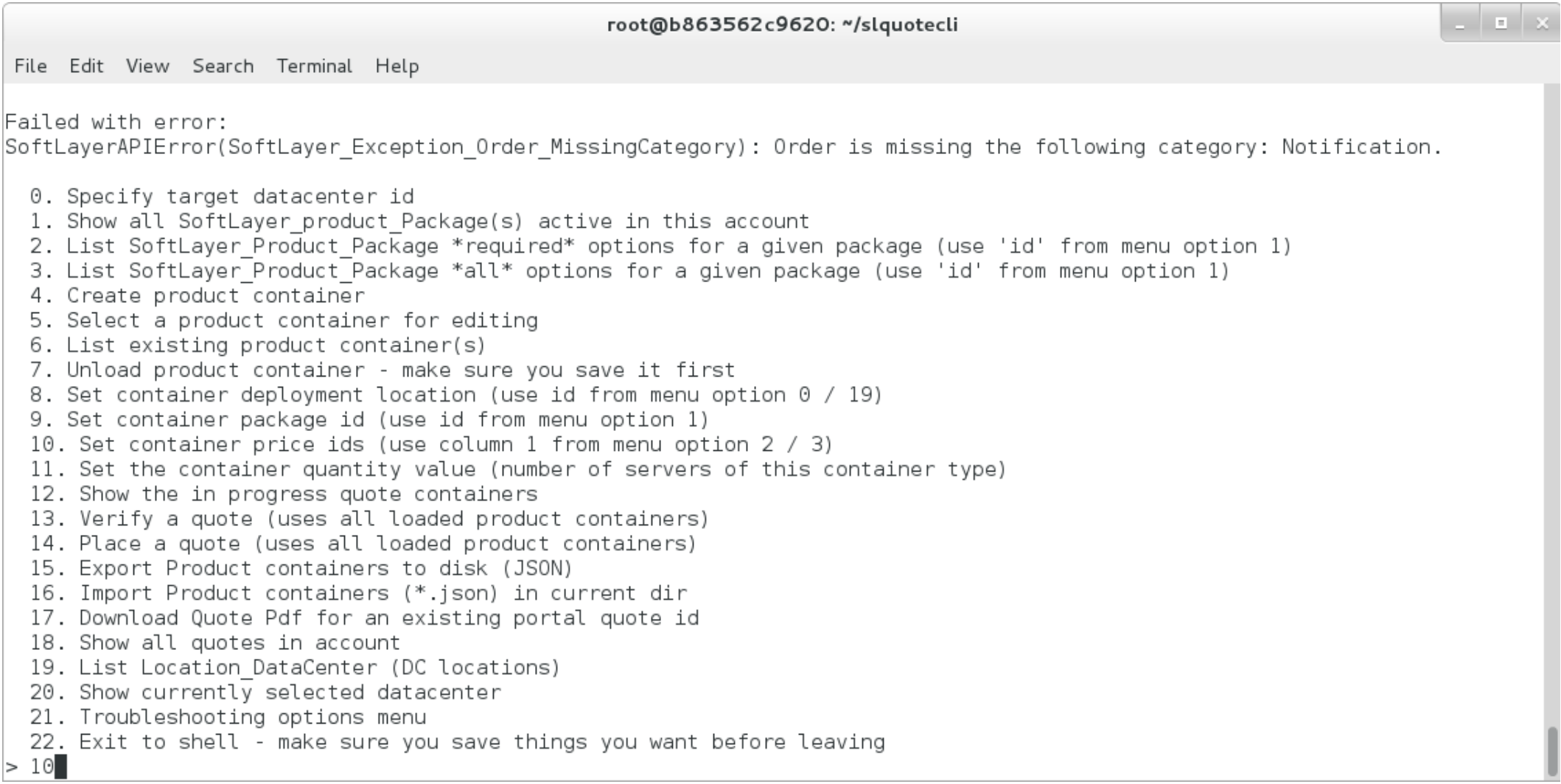
When we scroll back and check, its missing...



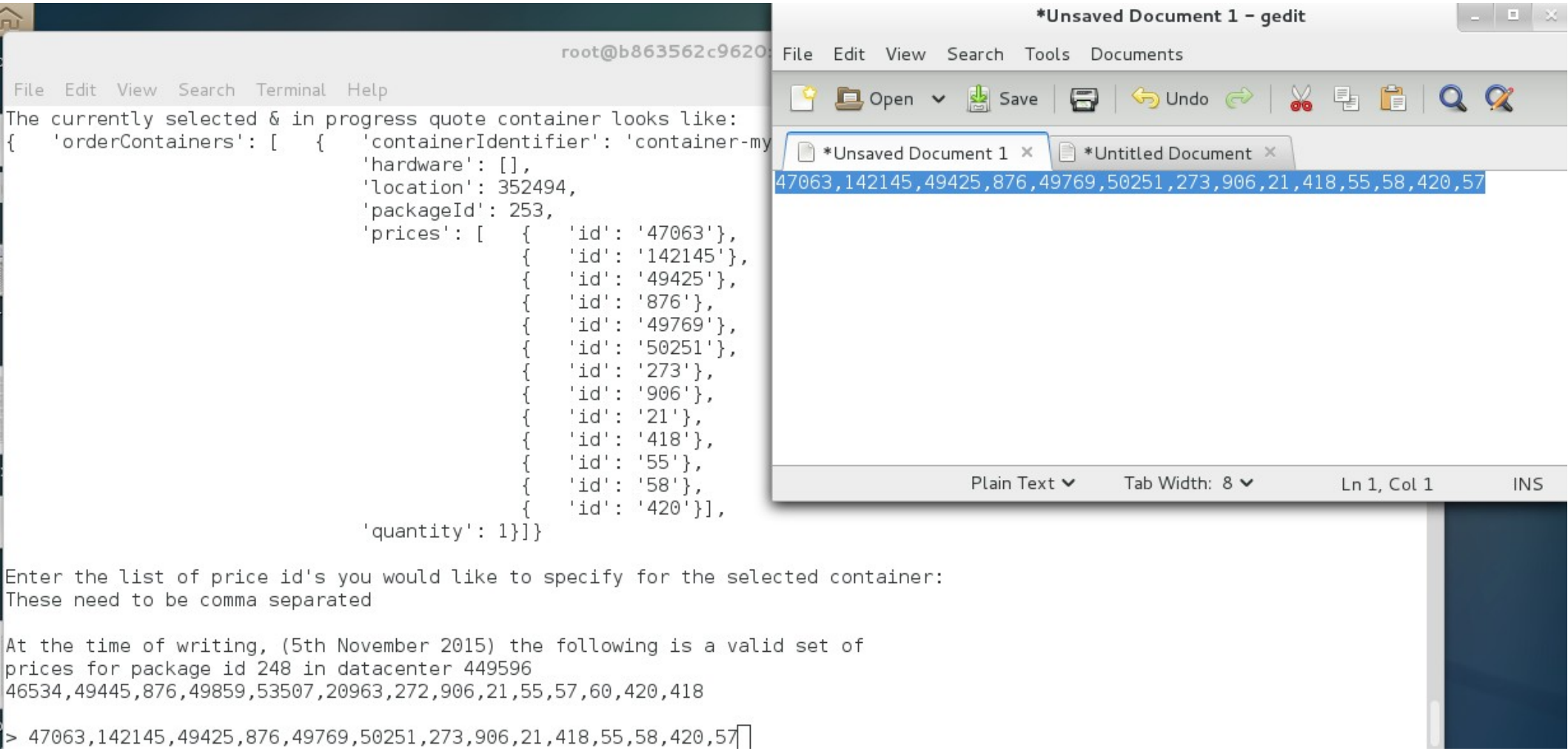
...so we add it to our list...



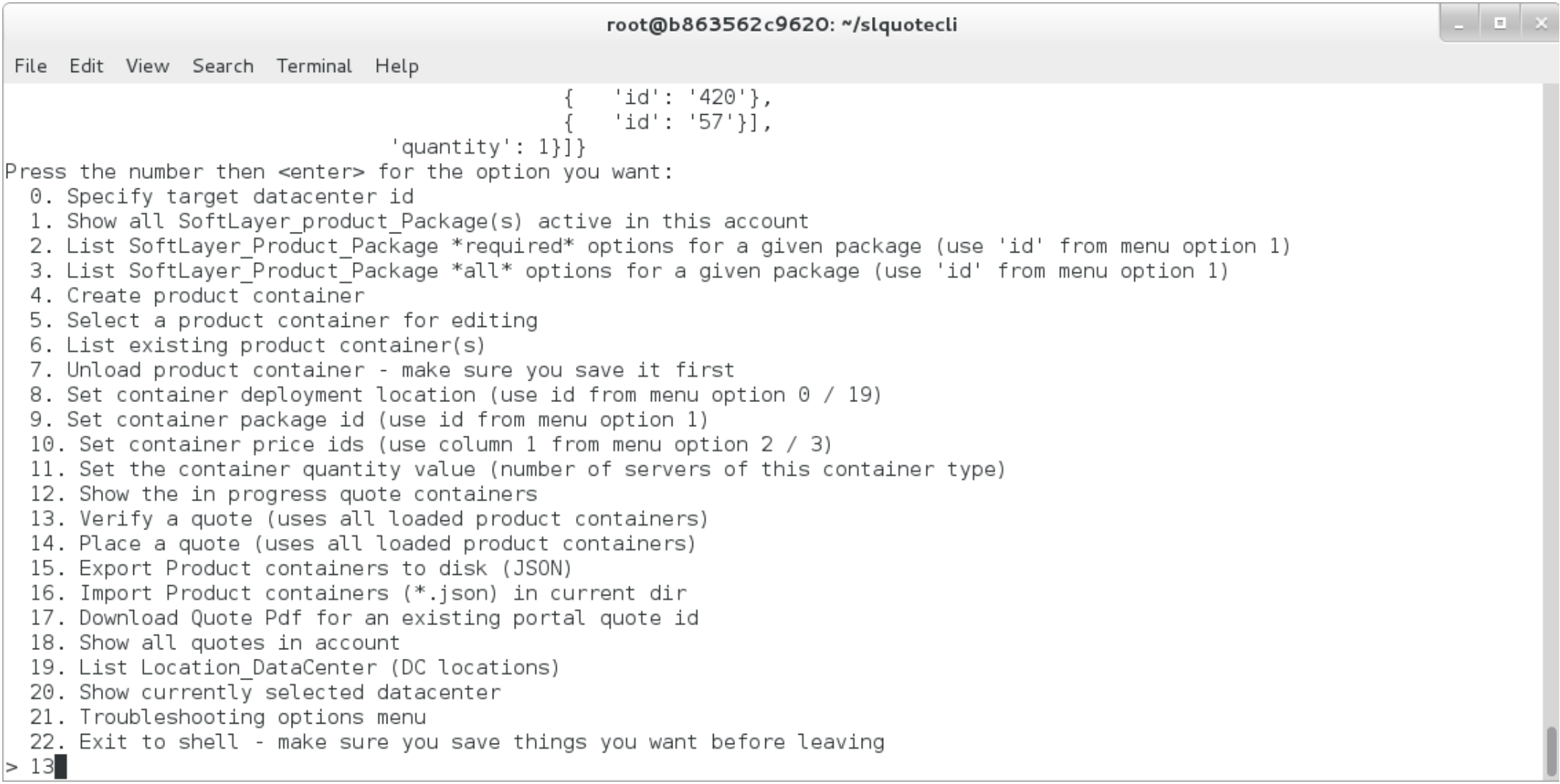
Option 10 – go back to the price / component submission



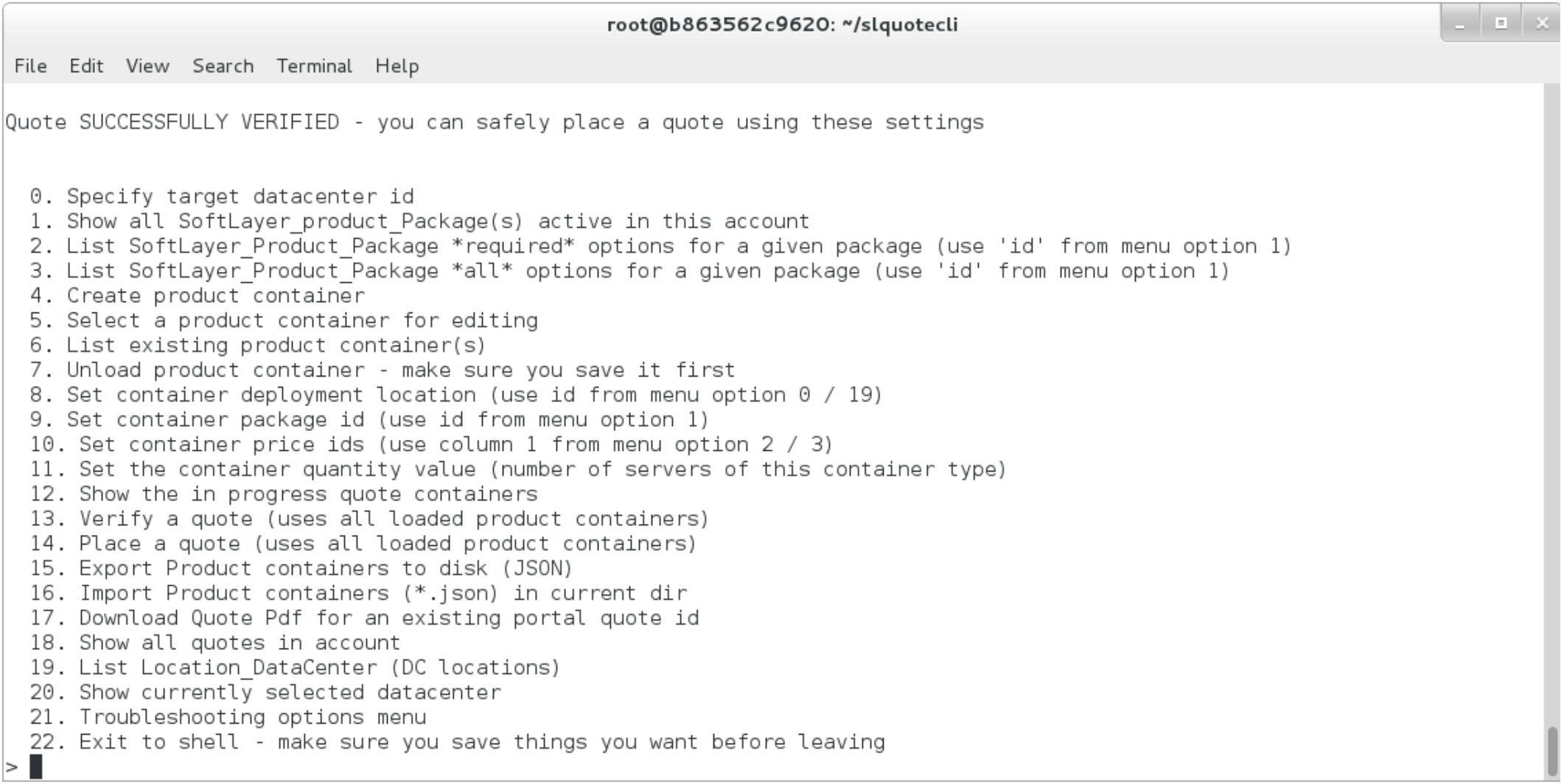
Paste again (Ctrl-Shft-V)



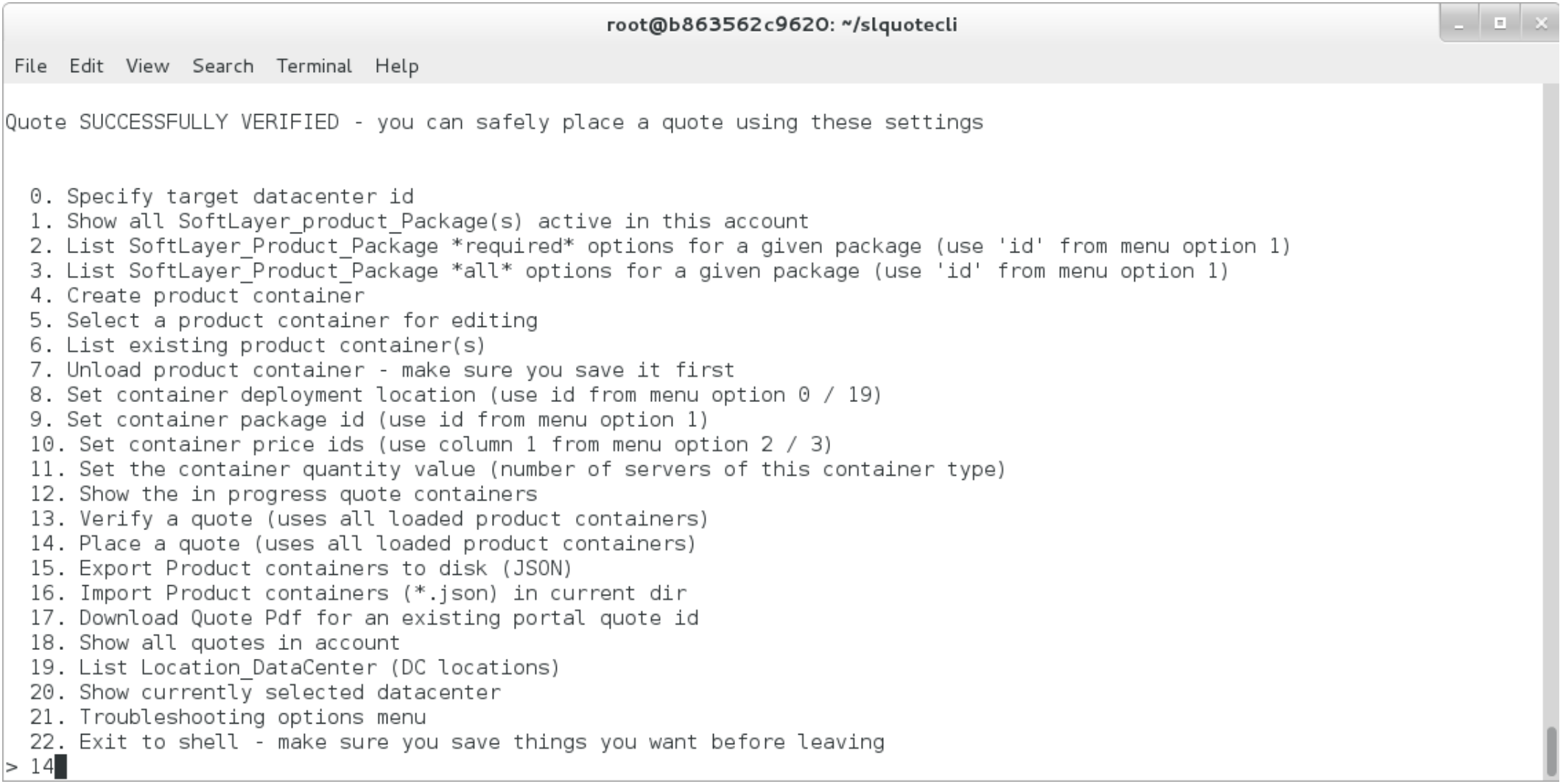
Option 13 – verify again...



Success! The container is valid...



Option 14 – place the quote...



Success! Its still valid

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```
Quote SUCCESSFULLY PLACED - you can see the quote on control.softlayer.com
Or download the pdf from the menu


  0. Specify target datacenter id
  1. Show all SoftLayer_product_Package(s) active in this account
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  3. List SoftLayer_Product_Package *all* options for a given package (use 'id' from menu option 1)
  4. Create product container
  5. Select a product container for editing
  6. List existing product container(s)
  7. Unload product container - make sure you save it first
  8. Set container deployment location (use id from menu option 0 / 19)
  9. Set container package id (use id from menu option 1)
  10. Set container price ids (use column 1 from menu option 2 / 3)
  11. Set the container quantity value (number of servers of this container type)
  12. Show the in progress quote containers
  13. Verify a quote (uses all loaded product containers)
  14. Place a quote (uses all loaded product containers)
  15. Export Product containers to disk (JSON)
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  17. Download Quote Pdf for an existing portal quote id
  18. Show all quotes in account
  19. List Location_DataCenter (DC locations)
  20. Show currently selected datacenter
  21. Troubleshooting options menu
  22. Exit to shell - make sure you save things you want before leaving
>
```
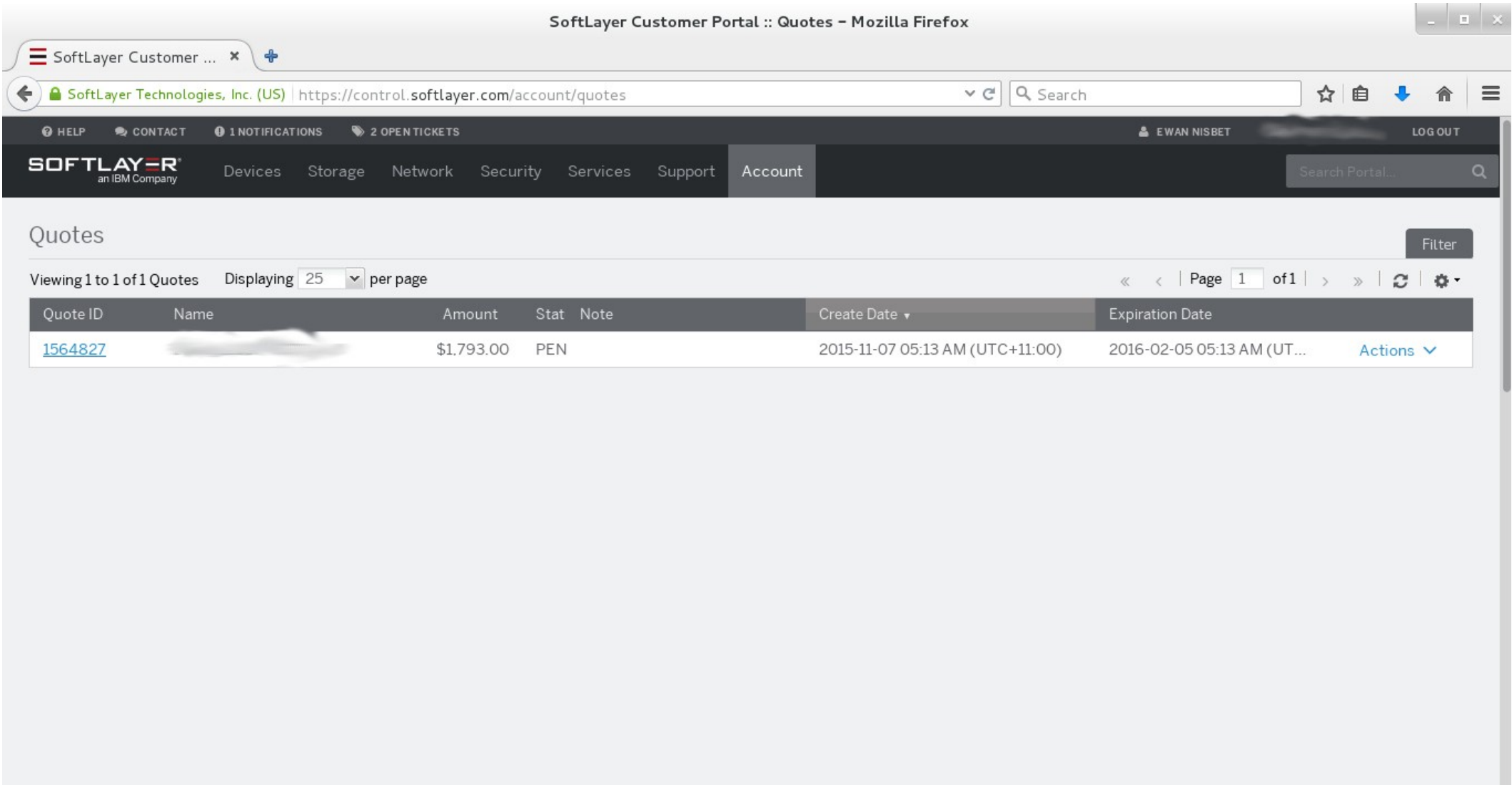
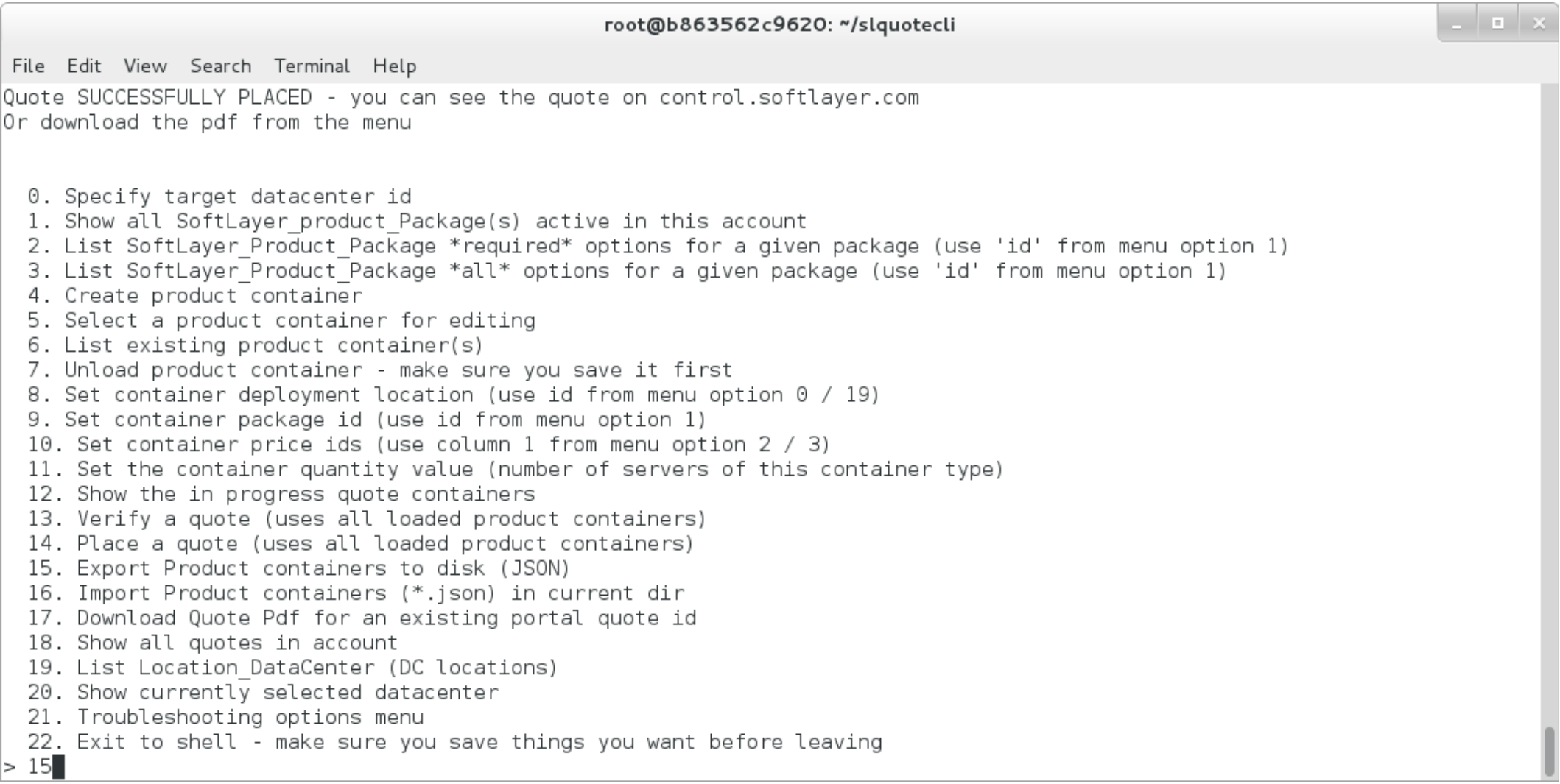

Don't believe it? Login to control.softlayer.com and check your quotes list



Lets save our container to disk using Option 15 (and notice Option 16 for another day)



Now lets lookup that quote, without using the portal – Option 18:

root@b863562c9620: ~/slquotecli

File Edit View Search Terminal Help

```
  21. Troubleshooting options menu
  22. Exit to shell - make sure you save things you want before leaving
> 15
You chose "15"
  0. Specify target datacenter id
  1. Show all SoftLayer_product_Package(s) active in this account
  2. List SoftLayer_Product_Package *required* options for a given package (use 'id' from menu option 1)
  3. List SoftLayer_Product_Package *all* options for a given package (use 'id' from menu option 1)
  4. Create product container
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  7. Unload product container - make sure you save it first
  8. Set container deployment location (use id from menu option 0 / 19)
  9. Set container package id (use id from menu option 1)
  10. Set container price ids (use column 1 from menu option 2 / 3)
  11. Set the container quantity value (number of servers of this container type)
  12. Show the in progress quote containers
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  15. Export Product containers to disk (JSON)
  16. Import Product containers (*.json) in current dir
  17. Download Quote Pdf for an existing portal quote id
  18. Show all quotes in account
  19. List Location_DataCenter (DC locations)
  20. Show currently selected datacenter
  21. Troubleshooting options menu
  22. Exit to shell - make sure you save things you want before leaving
> 18
```

Look familiar?

root@b863562c9620: ~/slquotecli

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```
  21. Troubleshooting options menu
  22. Exit to shell - make sure you save things you want before leaving
> 18
You chose "18"
Connecting to SoftLayer

[   {   'accountId': [redacted]
        'completedPurchaseDataId': 6128475,
        'createDate': '2015-11-07T05:13:10+11:00',
        'expirationDate': '2016-02-05T05:13:10+11:00',
        'id': 1564827,
        'modifyDate': '2015-11-07T05:13:12+11:00',
        'name': '[redacted]',
        'quoteKey': 'f3d40e7c0a61deb0d0022f262de7c104',
        'status': 'PENDING'}]

  0. Specify target datacenter id
  1. Show all SoftLayer_product_Package(s) active in this account
  2. List SoftLayer_Product_Package *required* options for a given package (use 'id' from menu option 1)
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  7. Unload product container - make sure you save it first
  8. Set container deployment location (use id from menu option 0 / 19)
  9. Set container package id (use id from menu option 1)
  10. Set container price ids (use column 1 from menu option 2 / 3)
  11. Set the container quantity value (number of servers of this container type)
```
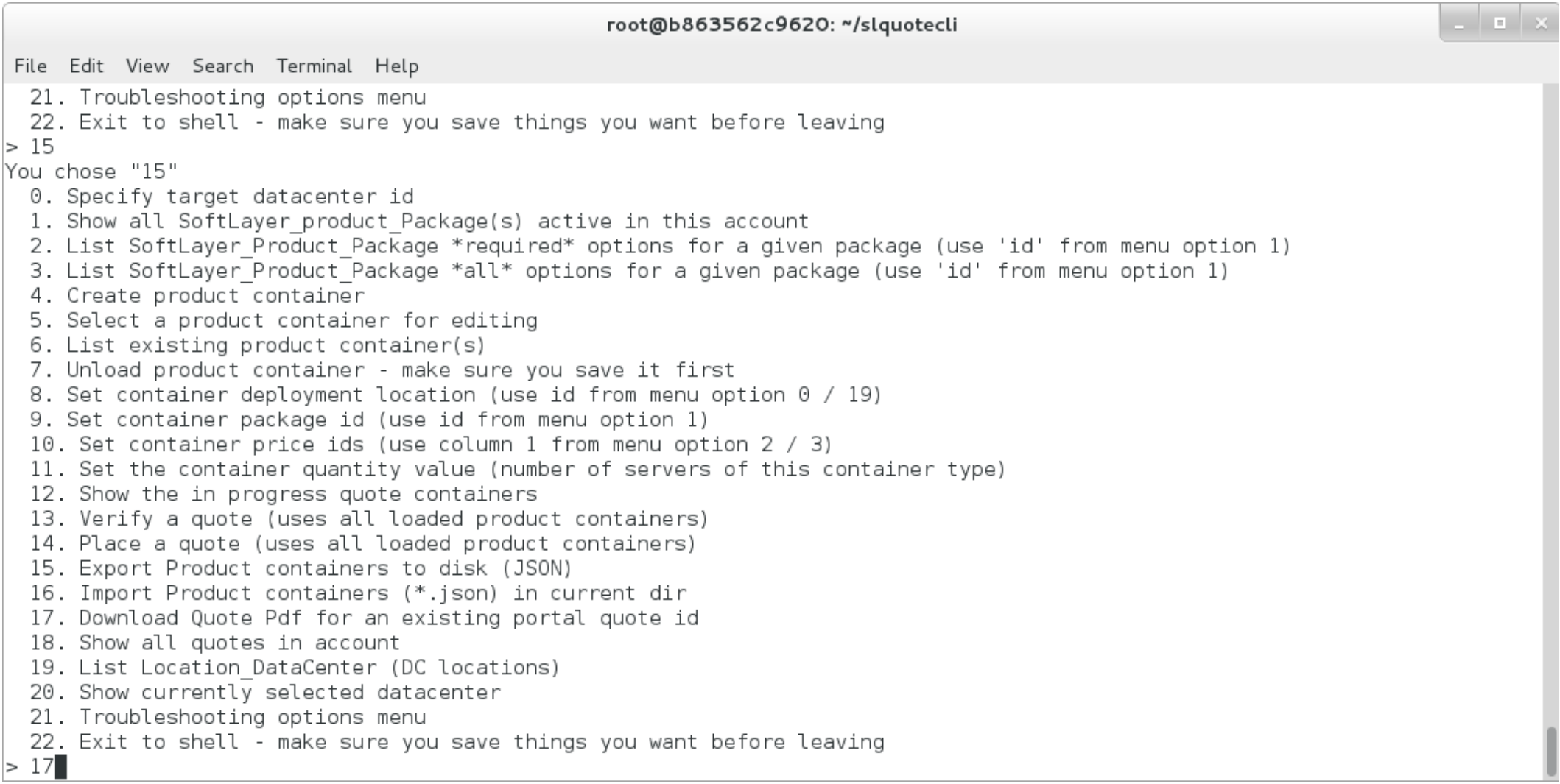
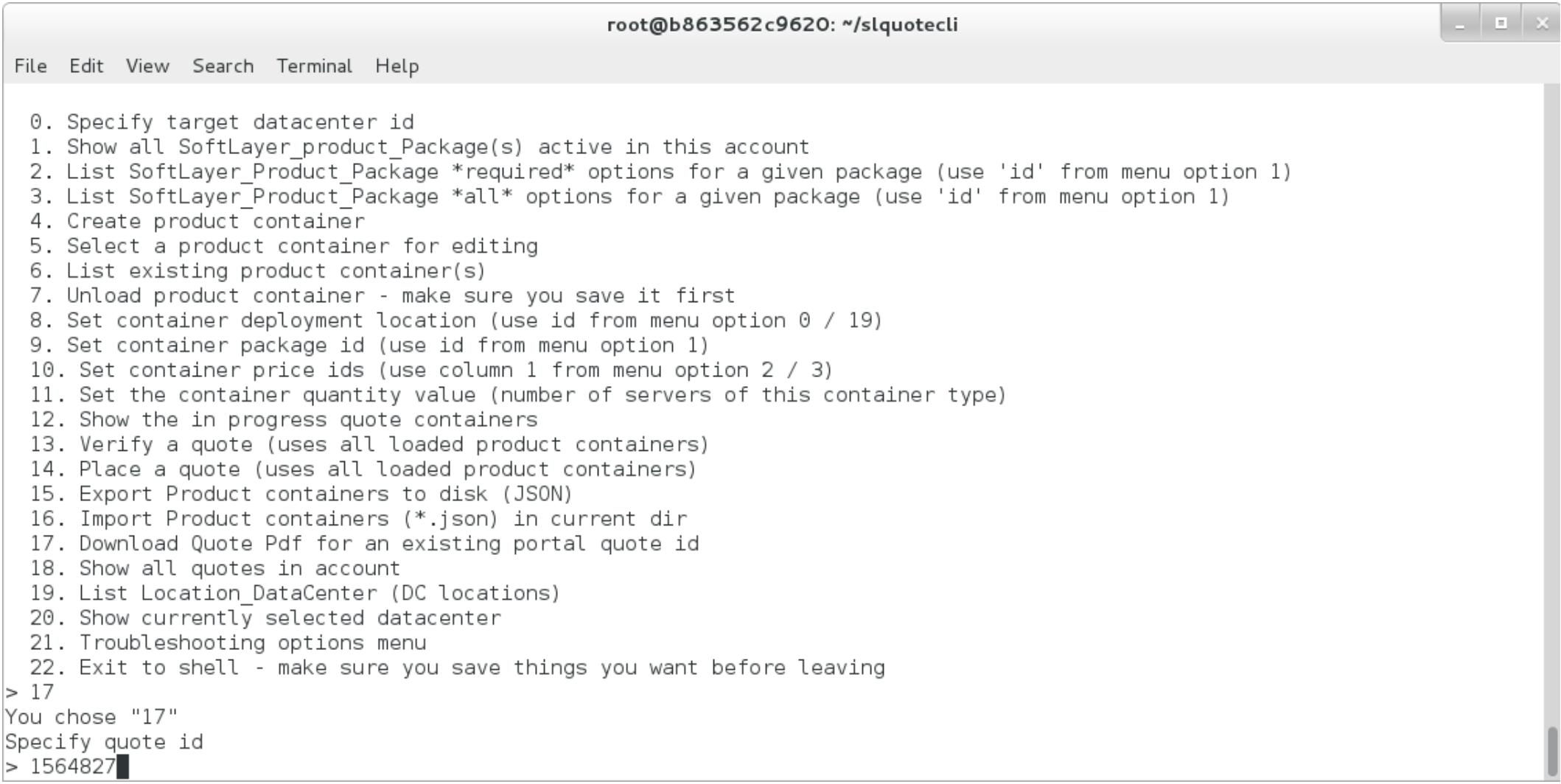
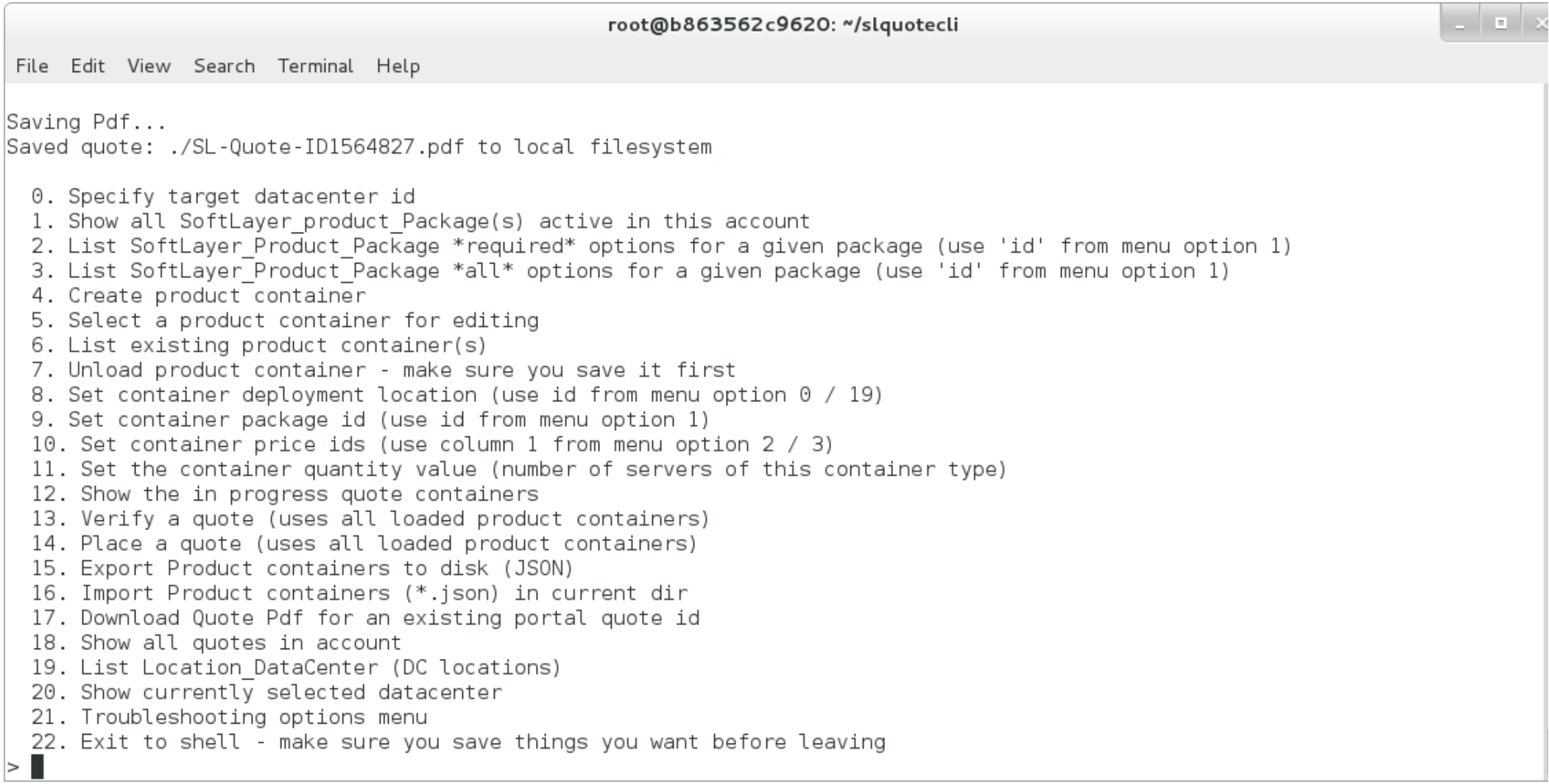

Option 17 – Download a pdf of the quote from the portal...



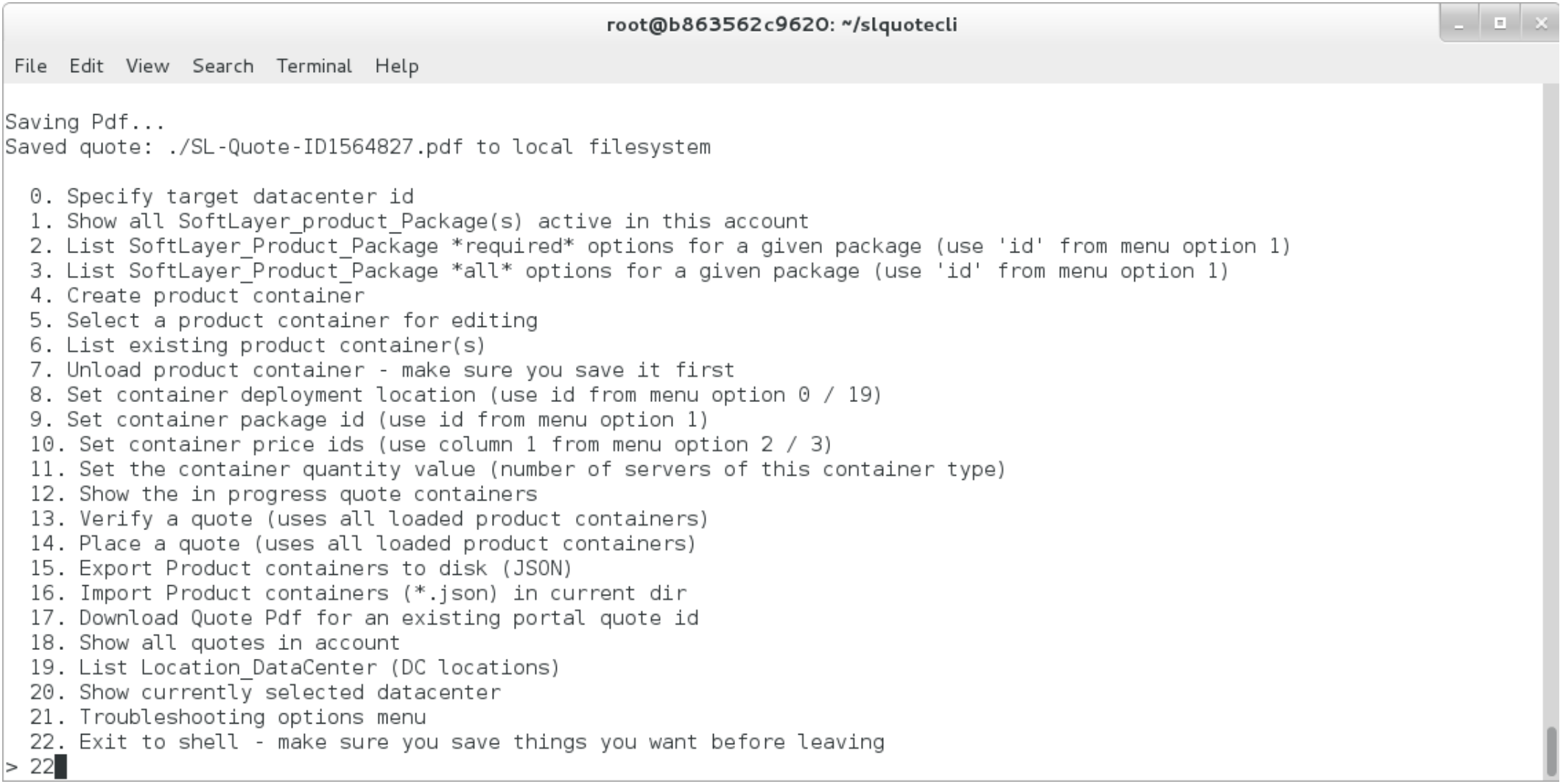
Enter that quote number again...



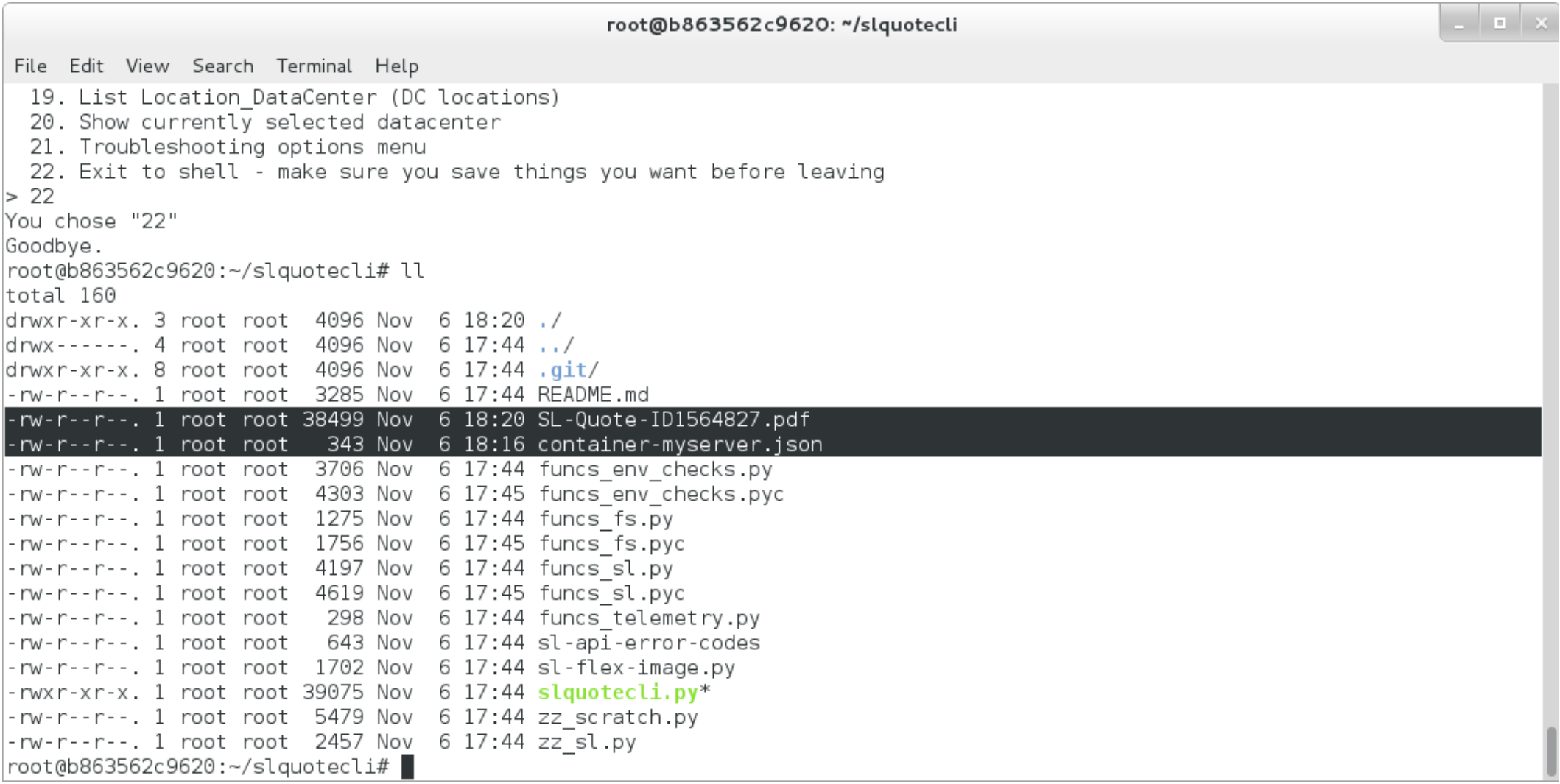
“Saved quote” - and the filename in the current / working directory...



We can close SLquoteCli now – Option 22:



Files were created – the pdf and the json version of the product container



Need proof? Look familiar?

root@b863562c9620: ~/slquotecli

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```
-rw-r--r--. 1 root root  5479 Nov  6 17:44 zz_scratch.py
-rw-r--r--. 1 root root  2457 Nov  6 17:44 zz_sl.py
root@b863562c9620:~/slquotecli# cat container-myserver.json |python -m json.tool
{
    "containerIdentifier": "container-myserver",
    "hardware": [],
    "location": 352494,
    "packageId": 253,
    "prices": [
        {
            "id": "47063"
        },
        {
            "id": "142145"
        },
        {
            "id": "49425"
        },
        {
            "id": "876"
        },
        {
            "id": "49769"
        },
        {
            "id": "50251"
        },
        {
            "id": "273"
        },
        {
            "id": "906"
        },
        {
            "id": "21"
```

Pdf viewing on the command line? Well...

Apt-get install ghostscript

followed by:

```
gs \
   -dBATCH \
   -dNOPAUSE \
   -sDEVICE=txtwrite \
   -sOutputFile=- \
   SL-Quote-ID1564827.pdf |less
```

Might result in...

That Proposal No. looks familiar!

root@b863562c9620: ~/slquotecli

File Edit View Search Terminal Help

```
Copyright (C) 2015 Artifex Software, Inc.  All rights reserved.
This software comes with NO WARRANTY: see the file PUBLIC for details.
   **** Warning: File has some garbage before %PDF- .
Processing pages 1 through 2.
Page 1
Loading NimbusSan-Bol font from /usr/share/ghostscript/9.16/Resource/Font/NimbusSan-Bol... 4722488 3087808 2518752 1186923 3 done.
Loading NimbusSan-Reg font from /usr/share/ghostscript/9.16/Resource/Font/NimbusSan-Reg... 4755816 3185606 2538944 1201011 3 done.
     Proposal No. 1564827: "[redacted]"
     Prepared for:  Important Messages                Contact Us
                    Proposal is valid until 12:00 a.m. CST (GMT -5) on 04 Feb 2016SoftLayer Dutch Holdings B.V.
                    This proposal is subject to the master service agreement which can be found Paul van Vlissingenstraat 16
                    at http://www.softlayer.com/legal/standard-msaAmsterdam 1096 BK
                                                     Netherlands
                                                     www.softlayer.com

                                                     Sales
                                                     sales@softlayer.com
     Customer No: [redacted]                         1-866-398-7638
                                                     1-214-442-0602

    Summary
    Group Description                                          Recurring Fee:
    Bare Metal Servers and Attached Services                $    1,793.00
              Bare Metal Servers                            $     232.00
              Network                                       $       0.00
              StorageLayer                                  $       0.00
              Security                                      $       0.00
              Content Delivery Network                      $       0.00
              Software                                      $       0.00
              Enterprise Services                           $       0.00
              Other Services                                $    1,561.00
    Virtual Servers and Attached Services                   $       0.00
              Virtual Servers                               $       0.00
              Network                                       $       0.00
              StorageLayer                                  $       0.00
:
```

By now you're a quoting expert!