

SLquoteCli

Full walk through

<https://github.com/ewann/slquotecli>

git checkout 4506e5d2ba1a085f6911e3b2f262ca094187cdaf
gets the code that matches these slides

Too many slides?

For a shorter introduction see:

<https://github.com/ewann/slquotecli/blob/devel/walkthrough-quick.pdf>

Option 0 - Choose target datacenter

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
root@b863562c9620:~/slquotecli#
root@b863562c9620:~/slquotecli#
root@b863562c9620:~/slquotecli# python slquotecli.py
Press the number then <enter> for the option you want:
 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
> 0
```

Choose a datacenter from the list

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
{ '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
File Edit View Search Terminal Help
{ '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)
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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
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
```

```
File Edit View Search Terminal Help
```

```
{ '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)
4. Create product container
5. Select a product container for editing
6. List existing product container(s)
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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

Option 2 - List all the components of a package

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

{  '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
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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)
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13. Verify a quote (uses all loaded product 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
> 2
```

Specify server package 253

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

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)
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17. Download Quote Pdf for an existing portal quote id
18. Show all quotes in account
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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
> 2
You chose "2"
Enter the SoftLayer_Product_Package id:
> 253
```


Build a list of mandatory options, one from each category

The terminal window shows the following interaction:

```
> 2
You chose "2"
Enter the SoftLayer_Product_Package id:
> 253
You chose "253"
Found data in local cache, using that
```

Product ID	Category	Operating System
47063	Server	Dual In
47065	Server	Dual In
47067	Server	Dual In
17250	Operating System	FreeBSD
21714	Operating System	QuantaS
17127	Operating System	CloudLi
17430	Operating System	Ubuntu
17438	Operating System	Ubuntu
21728	Operating System	QuantaS
36253	Operating System	Windows
37090	Operating System	FreeBSD 10.x (64 bit)
37120	Operating System	No Operating System
142145	Operating System	Debian GNU/Linux 8.x jessie/Stable (64 bit)
1857	Operating System	Windows Server 2008 R2 Standard Edition (64bit)
36381	Operating System	Citrix XenServer 6.2.1
49011	Operating System	Red Hat Enterprise Linux 7.x (64 bit) (per-processor licensing)
164837	Operating System	Citrix XenServer 6.5.1
1854	Operating System	Windows Server 2008 R2 Web Edition (64bit)
1858	Operating System	Windows Server 2008 R2 Standard Edition (64bit)
22177	Operating System	Vyatta 6.x Subscription Edition (64 bit)
36207	Operating System	Windows Server 2012 R2 Datacenter Edition (64bit)

The gedit window shows the selected entry '142145' being copied into a new document.

...continue down the list...

The image shows a terminal window on the left and a gedit editor window on the right. The terminal window displays a list of system configurations and a list of commands. The gedit window shows a document with a long string of numbers.

Terminal Window:

```
root@b863562c9620:~#
```

ID	Category	Value	Unit
21512	Uplink Port Speeds	26	100 Mbps
899	Uplink Port Speeds	26	1 Gbps
2314	Uplink Port Speeds	26	1 Gbps
14024	Uplink Port Speeds	26	10 Gbps
21525	Uplink Port Speeds	26	10 Gbps
274	Uplink Port Speeds	26	1 Gbps
898	Uplink Port Speeds	26	100 Mbps
2397	Uplink Port Speeds	26	10 Gbps
37218	Uplink Port Speeds	26	1 Gbps
40146	Uplink Port Speeds	26	10 Gbps
14023	Uplink Port Speeds	26	1 Gbps
21524	Uplink Port Speeds	26	10 Gbps
906	Remote Management	46	Reboot
21	Primary IP Addresses	13	1 IP Ad
418	Vulnerability Assessments & Management	32	Nessus
56	Monitoring	20	Host Pi
55	Monitoring	20	Host Pi
57	Notification	21	Email and Ticket
59	Response	22	Automated Reboot from Monitoring
58	Response	22	Automated Notification
60	Response	22	NOC Monitoring
420	VPN Management - Private Network	31	Unlimited SSL VPN Users & 1 PPTP VPN User per 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
```

gedit Window:

*Unsaved Document 1 - gedit

File Edit View Search Tools Documents

Open Save Undo

*Unsaved Document 1 x *Untitled Document x

47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420

Plain Text Tab Width: 8 Ln 1, Col 60 INS

Option 4 - Create a product container

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
59 Response 22 Automated Reboot from Monitoring
58 Response 22 Automated Notification
60 Response 22 NOC Monitoring
420 VPN Management - Private Network 31 Unlimited SSL VPN Users & 1 PPTP VPN User per account
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
> 4
```

Name the container for later reference

root@b863562c9620: ~/slquotecli

File Edit View Search Terminal Help

- 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.

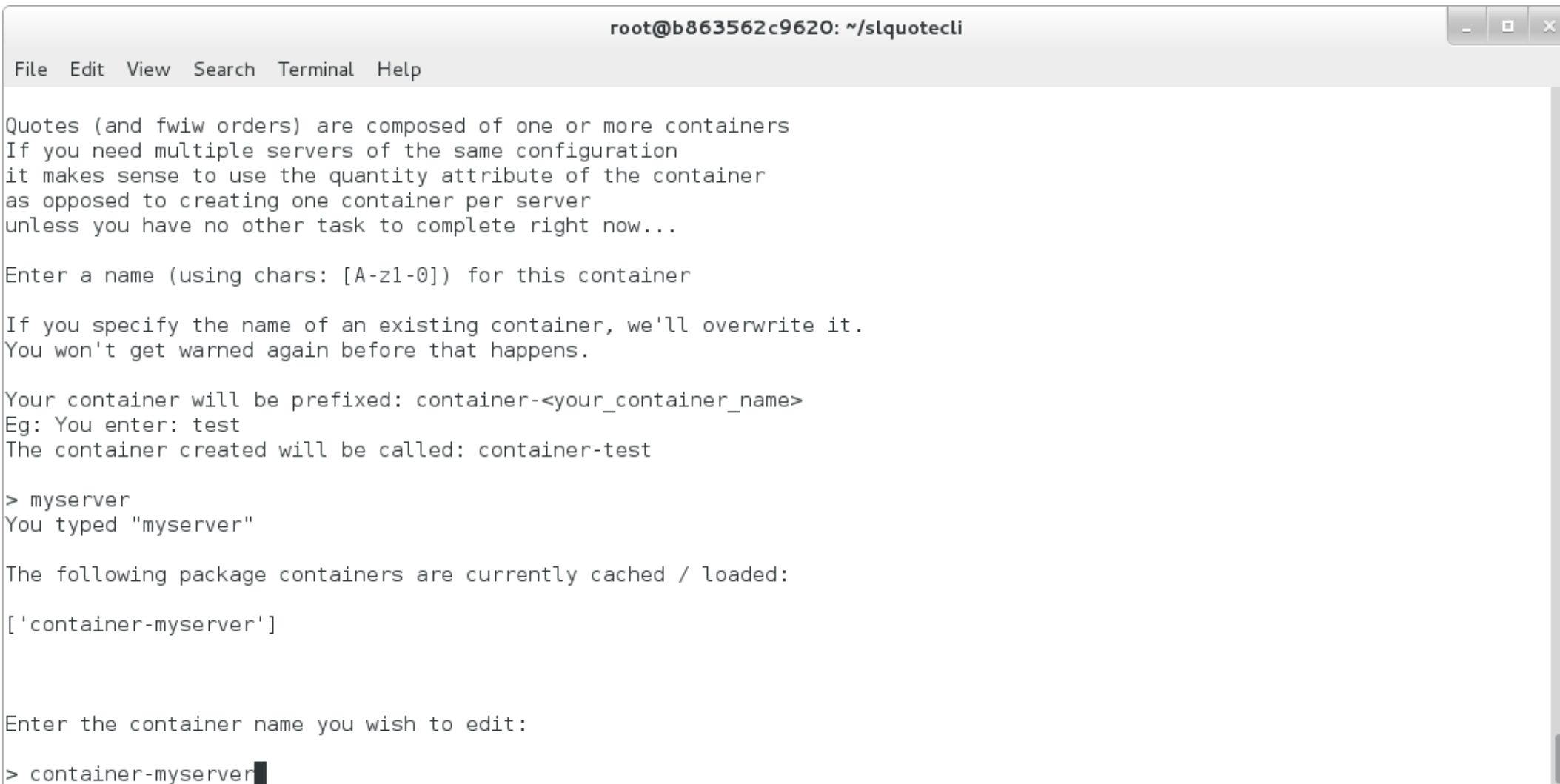
Your container will be prefixed: container-<your_container_name>

Eg: You enter: test

The container created will be called: container-test

> myserver

Specify the container for modification, using the full container name



```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

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
You typed "myserver"

The following package containers are currently cached / loaded:

['container-myserver']

Enter the container name you wish to edit:

> container-myserver
```

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

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
Enter the container name you wish to edit:
> container-myserver
You typed "container-myserver"
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
> 8
```

Enter the data center id we identified earlier...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
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...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

        {  'id': '420'},
        {  'id': '418'}],
    'quantity': 1]]}
Press the number then <enter> for the option you want:
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
> 9
```


Id 253 – the one we chose earlier

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
The currently selected product container is:
container-myserver

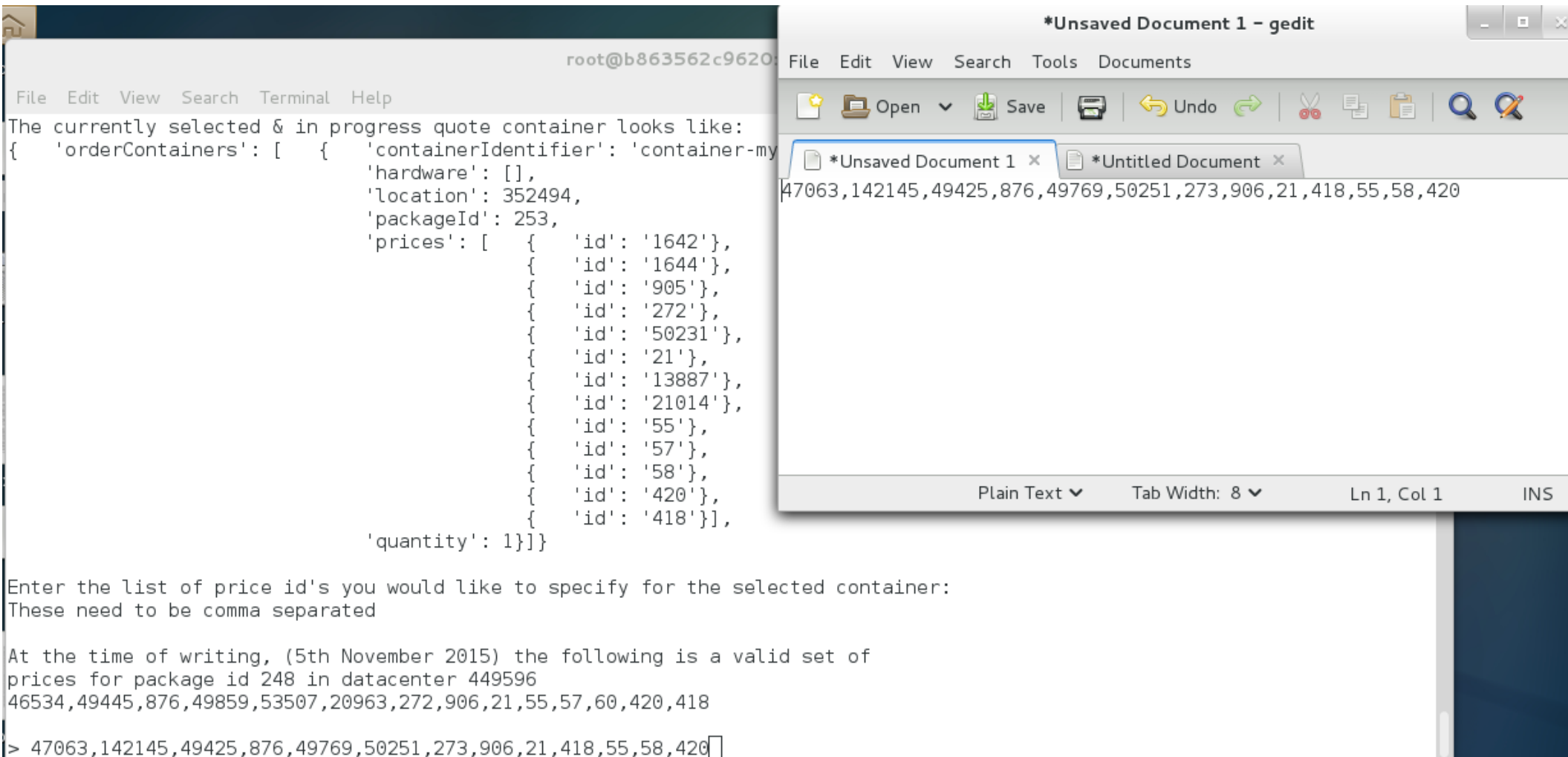
The currently selected & in progress quote container looks like:
{  'orderContainers': [  {  'containerIdentifier': 'container-myserver',
    'hardware': [],
    'location': 352494,
    'packageId': 46,
    'prices': [  {  'id': '1642'},
                  {  'id': '1644'},
                  {  'id': '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...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

        { 'id': '420'},
        { 'id': '418'}],
    'quantity': 1]]}
Press the number then <enter> for the option you want:
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)
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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)
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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
> 10
```

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



```
root@b863562c9620:~#
File Edit View Search Terminal Help
The currently selected & in progress quote container looks like:
{  'orderContainers': [  {  'containerIdentifier': 'container-my
    'hardware': [],
    'location': 352494,
    'packageId': 253,
    '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 list of price id's you would like to specify for the selected container:
These need to be comma separated
At the time of writing, (5th November 2015) the following is a valid set of
prices for package id 248 in datacenter 449596
46534,49445,876,49859,53507,20963,272,906,21,55,57,60,420,418
> 47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420
```

```
*Unsaved Document 1 - gedit
File Edit View Search Tools Documents
*Unsaved Document 1 x *Untitled Document x
47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420
Plain Text Tab Width: 8 Ln 1, Col 1 INS
```

Option 13 – verify the quote...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

        {  'id': '58'},
        {  'id': '420'}],
    'quantity': 1]]}
Press the number then <enter> for the option you want:
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
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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)
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15. Export Product containers to disk (JSON)
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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
> 13
```

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

root@b863562c9620: ~/slquotecli

File Edit View Search Terminal Help

Failed with error:

SoftLayerAPIError(SoftLayer_Exception_Order_MissingCategory): Order is missing the following category: Notification.

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

> █

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

The image shows a terminal window and a gedit editor window. The terminal window displays a list of network speeds and other configurations. The gedit window shows a document with a large number of zeros.

Terminal Window:

```
root@b863562c9620:~#
```

Line	Category	Value	Unit
2314	Uplink Port Speeds	26	1 Gbps
14024	Uplink Port Speeds	26	10 Gbps
21525	Uplink Port Speeds	26	10 Gbps
274	Uplink Port Speeds	26	1 Gbps
898	Uplink Port Speeds	26	100 Mbps
2397	Uplink Port Speeds	26	10 Gbps
37218	Uplink Port Speeds	26	1 Gbps
40146	Uplink Port Speeds	26	10 Gbps
14023	Uplink Port Speeds	26	1 Gbps
21524	Uplink Port Speeds	26	10 Gbps
906	Remote Management	46	Reboot
21	Primary IP Addresses	13	1 IP Ad
418	Vulnerability Assessments & Management	32	Nessus
56	Monitoring	20	Host Pi
55	Monitoring	20	Host Pi
57	Notification	21	Email a
59	Response	22	Automat
58	Response	22	Automated Notification
60	Response	22	NOC Monitoring
420	VPN Management - Private Network	31	Unlimited SSL VPN Users & 1 PPTP VPN User per account

gedit Window:

*Unsaved Document 1 - gedit

File Edit View Search Tools Documents

Open Save Undo

*Unsaved Document 1 x *Untitled Document x

47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420

Plain Text Tab Width: 8 Ln 1, Col 1 INS

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

The image shows a terminal window on the left and a gedit editor window on the right. The terminal window displays a list of network configurations and a menu of actions. The gedit window shows a document with a long string of numbers and a cursor at the end.

Terminal Window:

```
root@b863562c9620:~#
```

ID	Category	Value	Unit
2314	Uplink Port Speeds	26	1 Gbps
14024	Uplink Port Speeds	26	10 Gbps
21525	Uplink Port Speeds	26	10 Gbps
274	Uplink Port Speeds	26	1 Gbps
898	Uplink Port Speeds	26	100 Mbps
2397	Uplink Port Speeds	26	10 Gbps
37218	Uplink Port Speeds	26	1 Gbps
40146	Uplink Port Speeds	26	10 Gbps
14023	Uplink Port Speeds	26	1 Gbps
21524	Uplink Port Speeds	26	10 Gbps
906	Remote Management	46	Reboot
21	Primary IP Addresses	13	1 IP Ad
418	Vulnerability Assessments & Management	32	Nessus
56	Monitoring	20	Host Pi
55	Monitoring	20	Host Pi
57	Notification	21	Email a
59	Response	22	Automat
58	Response	22	Automated Notification
60	Response	22	NOC Monitoring
420	VPN Management - Private Network	31	Unlimited SSL VPN Users & 1 PPTP VPN User per account

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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

gedit Window:

*Unsaved Document 1 - gedit

File Edit View Search Tools Documents

Open Save Undo

*Unsaved Document 1 x *Untitled Document x

47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420,57

Plain Text Tab Width: 8 Ln 1, Col 61 INS

Option 10 – go back to the price / component submission

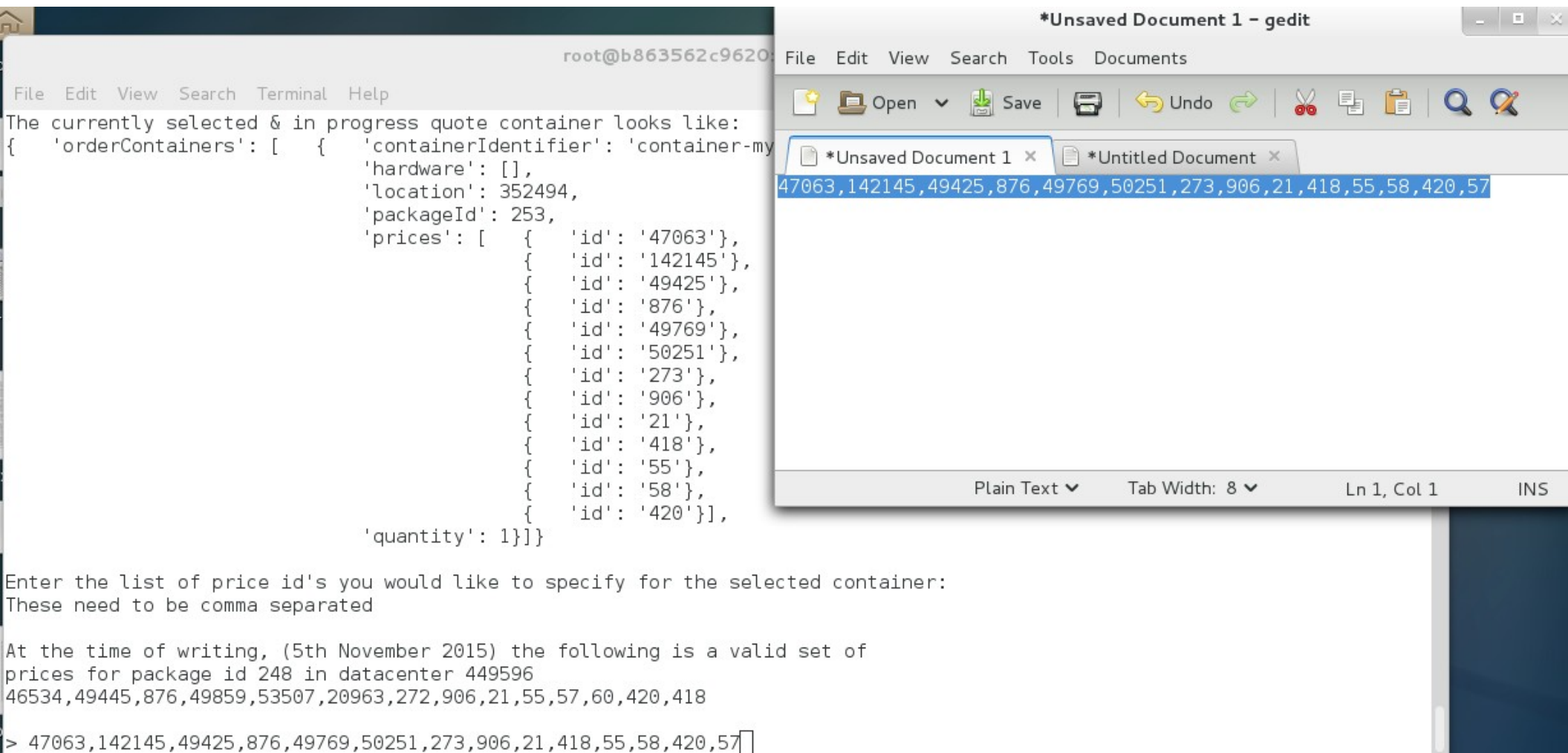
```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

Failed with error:
SoftLayerAPIError(SoftLayer_Exception_Order_MissingCategory): Order is missing the following category: Notification.

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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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)
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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

> 10
```


Paste again (Ctrl-Shift-V)



The screenshot shows a terminal window on the left and a gedit editor on the right. The terminal displays a JSON structure for a container, and the gedit editor shows a list of price IDs that have been pasted into a document.

Terminal Window:

```
root@b863562c9620:~#  
File Edit View Search Terminal Help  
The currently selected & in progress quote container looks like:  
{  'orderContainers': [  {  'containerIdentifier': 'container-my  
    'hardware': [],  
    'location': 352494,  
    'packageId': 253,  
    'prices': [  {  'id': '47063'},  
                  {  'id': '142145'},  
                  {  'id': '49425'},  
                  {  'id': '876'},  
                  {  'id': '49769'},  
                  {  'id': '50251'},  
                  {  'id': '273'},  
                  {  'id': '906'},  
                  {  'id': '21'},  
                  {  'id': '418'},  
                  {  'id': '55'},  
                  {  'id': '58'},  
                  {  'id': '420'}],  
    'quantity': 1}]}
```

gedit Editor:

*Unsaved Document 1 - gedit

File Edit View Search Tools Documents

Open Save Undo

*Unsaved Document 1 x *Untitled Document x

47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420,57

Plain Text Tab Width: 8 Ln 1, Col 1 INS

Enter the list of price id's you would like to specify for the selected container:
These need to be comma separated

At the time of writing, (5th November 2015) the following is a valid set of
prices for package id 248 in datacenter 449596
46534,49445,876,49859,53507,20963,272,906,21,55,57,60,420,418

> 47063,142145,49425,876,49769,50251,273,906,21,418,55,58,420,57

Option 13 – verify again...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

        { 'id': '420'},
        { 'id': '57'}],
    'quantity': 1]]}
Press the number then <enter> for the option you want:
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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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
> 13
```

Success! The container is valid...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

Quote SUCCESSFULLY VERIFIED - you can safely place a quote using these settings

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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5. Select a product container for editing
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7. Unload product container - make sure you save it first
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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

> █
```

Option 14 – place the quote...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

Quote SUCCESSFULLY VERIFIED - you can safely place a quote using these settings

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)
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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

> 14
```

Success! Its still valid

root@b863562c9620: ~/slquotecli

File Edit View Search Terminal Help

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
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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8. Set container deployment location (use id from menu option 0 / 19)
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13. Verify a quote (uses all loaded product containers)
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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

SoftLayer Customer Portal :: Quotes - Mozilla Firefox

SoftLayer Customer ... x +

SoftLayer Technologies, Inc. (US) | https://control.softlayer.com/account/quotes

HELP CONTACT 1 NOTIFICATIONS 2 OPEN TICKETS EWAN NISBET LOG OUT

SOFTLAYER an IBM Company Devices Storage Network Security Services Support Account Search Portal...

Quotes

Filter

Viewing 1 to 1 of 1 Quotes Displaying 25 per page

« < | Page 1 of 1 | > » | ↻ | ⚙

Quote ID	Name	Amount	Stat	Note	Create Date	Expiration Date	
1564827		\$1,793.00	PEN		2015-11-07 05:13 AM (UTC+11:00)	2016-02-05 05:13 AM (UT...	Actions

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

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
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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9. Set container package id (use id from menu option 1)
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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
> 15
```


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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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
File Edit View Search Terminal Help
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': ██████████,
    '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': '████████████████████',
    'quoteKey': 'f3d40e7c0a61deb0d0022f262de7c104',
    'status': 'PENDING'}]

0. Specify target datacenter id
1. Show all SoftLayer_product_Package(s) active in this account
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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...

```
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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6. List existing product container(s)
7. Unload product container - make sure you save it first
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9. Set container package id (use id from menu option 1)
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16. Import Product containers (*.json) in current dir
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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
> 17
```

Enter that quote number again...

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

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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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
> 17
You chose "17"
Specify quote id
> 1564827
```

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

root@b863562c9620: ~/slquotecli

File Edit View Search Terminal Help

Saving Pdf...

Saved quote: ./SL-Quote-ID1564827.pdf to local filesystem

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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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

> █

We can close SLquoteCli now – Option 22:

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help

Saving Pdf...
Saved quote: ./SL-Quote-ID1564827.pdf to local filesystem

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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7. Unload product container - make sure you save it first
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10. Set container price ids (use column 1 from menu option 2 / 3)
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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
> 22
```

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

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
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
> 22
You chose "22"
Goodbye.
root@b863562c9620:~/slquotecli# ll
total 160
drwxr-xr-x. 3 root root 4096 Nov  6 18:20 ./
drwx----- 4 root root 4096 Nov  6 17:44 ../
drwxr-xr-x. 8 root root 4096 Nov  6 17:44 .git/
-rw-r--r--. 1 root root 3285 Nov  6 17:44 README.md
-rw-r--r--. 1 root root 38499 Nov  6 18:20 SL-Quote-ID1564827.pdf
-rw-r--r--. 1 root root 343 Nov  6 18:16 container-myserver.json
-rw-r--r--. 1 root root 3706 Nov  6 17:44 funcs_env_checks.py
-rw-r--r--. 1 root root 4303 Nov  6 17:45 funcs_env_checks.pyc
-rw-r--r--. 1 root root 1275 Nov  6 17:44 funcs_fs.py
-rw-r--r--. 1 root root 1756 Nov  6 17:45 funcs_fs.pyc
-rw-r--r--. 1 root root 4197 Nov  6 17:44 funcs_sl.py
-rw-r--r--. 1 root root 4619 Nov  6 17:45 funcs_sl.pyc
-rw-r--r--. 1 root root 298 Nov  6 17:44 funcs_telemetry.py
-rw-r--r--. 1 root root 643 Nov  6 17:44 sl-api-error-codes
-rw-r--r--. 1 root root 1702 Nov  6 17:44 sl-flex-image.py
-rwxr-xr-x. 1 root root 39075 Nov  6 17:44 slquotecli.py*
-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#
```

Need proof? Look familiar?

```
root@b863562c9620: ~/slquotecli
File Edit View Search Terminal Help
-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...

File Edit View Search Terminal Help

```
**** 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: "██████████ ██████████ 200121310"

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

<http://www.softlayer.com/legal/standard-msaAmsterdam> 1096 BK

Netherlands

www.softlayer.com

Sales

sales@softlayer.com

1-866-398-7638

1-214-442-0602

Summary

Group Description

Bare Metal Servers and Attached Services

Recurring Fee:

\$ 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!