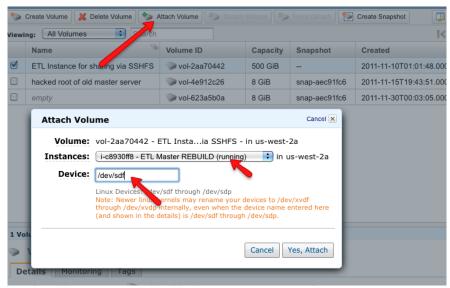
ETL Master Rebuild Documentation

Apologies for inconsistent verb tenses.

- 1. Launch EBS backed Ubuntu 10.10 ami (ami-06f97436)
 - 1. etl-master security group
 - 2. master key
 - 3. xlarge type (64 bit)
- 2. Associated elastic IP with instance
- 3. Opened SSH in etl-master security group to single IP 22 (SSH)youriphere/32
- 4. Added etlclient group / user (9000 for both Ids) sudo addgroup --gid 9000 etlclient sudo adduser --uid 9000 --gid 9000 etlclient ---- entered in master-etlclient password
- 5. sudo apt-get update
- 6. Attached 500GB shared disk to new master



- 7. sudo apt-get install xfsprogs
- 8. Create /opt/elastic dir
 - 1. sudo mkdir /opt/elastic
 - 2. sudo chown etlclient /opt/elastic
 - 3. sudo chgrp etlclient /opt/elastic
- 9. Append line to fstab
 - 1. /dev/sdf /opt/elastic auto defaults,noatime,nobootwait,comment=SharedDisk 0.0
- 10. Reboot machine (sudo shutdown -r 0)
- 11. install mysql
 - 1. sudo apt-get install mysql
 - 2. shutdown mysql (service mysql stop)
 - edit my.cnf
 change datadir to /opt/elastic/mysql-db
 added innodb_data_home_dir = /opt/elastic/mysql-db
 - 4. edit /etc/apparmor.d/usr.sbin.mysqld (change /var/lib/mysql to /opt/elastic/mysql-db) reload apparmor profiles (service apparmor restart)
 - 5. start mysql

- 12. Reset passwords for root
- 13. Remove "logger" and "phpmyadmin" user
- 14. Change debian-sys-maint password to match the one in /etc/mysql/debian.conf
- 15. drop database phpmyadmin
- 16. install subversion (sudo apt-get install subversion)
- 17. deleted, and rechecked out git

cd /opt/elastic

rm -rf elastic-etl

git clone git://github.com/dynamobi/elastic-etl.git

18. Regenerated etlclient key (ssh-keygen w/ no password)

Moved id rsa.pub to authorized keys on master

Copied id rsa to my own local file (to be updated on slaves)

deleted id_rsa from \$HOME/.ssh/id_rsa (remove private key from master)

19. Launched latest slave instance (ami-7e810c4e)

Removed all keys (excepting authorized keys of slave)

Changed id rsa in /root/ to etlclient private key

Shutdown slave took new image (etl. slave ubuntu 64 29 nov 1823)

20. Take a "in process master image"

Shutdown master

Detach the shared disk (500GB)

Created an image (etl master ubuntu 64 29 nov 1840)

Reattached shared disk

Started master

Re-associated public IP address

21. Install apache, and requisite PHP extensions/etc

apt-get install php5-common php5-curl php5-mysql php5 apache2 php-pear

22. Install AWS stuff

pear channel-discover pear.amazonwebservices.com

pear install aws/sdk

23. Enabled ssl/rewrite modules

a2enmod rewrite

a2enmod ssl

service apache2 reload

24. Generated self signed certficate

openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout etl.elastic.key -out etl.elastic.crt Follow the instructions and provide values you want to provide.

25. cp etl.elastic.key /etc/ssl/private/

cp etl.elastic.crt /etc/ssl/certs/

26. Copied default SSL configuration

cd /etc/apache2/sites-available

cp default-ssl etl.elastic.com

27. Edited and changed certs to just self signed certs

SSLCertificateFile /etc/ssl/certs/etl.elastic.crt

SSLCertificateKeyFile /etc/ssl/private/etl.elastic.key

28. Edited etl.elastic.com

Removed cgi section

Changed doc root (two places) from /var/www to /opt/elastic/elastic-etl/elastic/www/html Allowed rewrite by changing

AllowOverride All

29. Enable apache to read elastic solution

cd /opt/elastic/elastic-etl/elastic/www

chgrp -R www-data.

cd app

sudo -u etlclient chmod 775 runtime

sudo -u etlclient chmod -R 775 /opt/elastic/elastic-etl/elastic/www/html/assets

30. Edited ./app/config/auth.php

Changed admin username

Changed database username

Removed nephoscale password since we're using amazon's stuff. (Or ignore it.)

31. Changed AWSKEY and AWSSECRETKEY in

sudo -u etlclient vi ./app/components/AmazonWS.php

(to new generated keys is recommended)

32. Install zip

sudo apt-get install zip

33. Edited /etc/php5/apache2/php.ini

in attempt to pick up AWSSDKforPHP/ module installed via pear.

include_path = ".:/usr/share/php" (try without doing this)

34. Edited /opt/elastic/elastic-etl/elastic/kettle.properties

ran encr.sh -kettle new password and placed it into that file

35. Added your public key to ubuntu/.ssh/authorized_keys if you want to do local ssh work

- 36. Shutdown, took new image of machine (etl master ubuntu 64 29 nov 2331)
- 37. Terminate that build machine, launched new instance from image

Re-attached shared disk

Re-associated IP address

- 38. Tried to commit kettle properties (HUNG on "transmitting file data") (should work now)
- 39. Added personal IP to HTTPS
- 40. Changed Auth token for CURL in /opt/elastic/elastic-etl/elastic/www/app/config/auth.php
- 41. Copied /opt/elastic/elastic-etl/elastic/www/crontab_sample to /home/etlclient/crontab commented out all pieces

edited to add new token/IP

crontab crontab (as etlclient)

42. Changed num_daily in master config to 2 (for testing) (for production 8 is good but can go arbitrarily high)

43. added

spl_autoload_register(array('CFLoader', 'autoloader'), true, true); in the AWS sdk.class.php file.