How-To: Setup Instance in OpenStack and Connect

Tuesday, November 03, 2015

7:58 PM

Step 1 - Login to <http://cloud.cybera.ca>

Machine generated alternative text:
cgbera 
Log In 
User Name: 
confidential_inc@gmail.com 
Sign In 
Password : 
Region: 
Calgary 
About RAC 
Updates 

Go to Access and Security to Generate a Private Key for Login Access

Machine generated alternative text:
cgbera 
Project 
Compute 
Over„'l ew 
Instances 
Volumes 
Images 
Access & Security 
Object Store 
RAC usage 
confidential.inc@gmail.eom 
Access 8 Security 
Security Groups 
Key Pairs 
Key Pairs 
Key Pair Name 
WebAccess 
Displaying I tem 
API Access 
Fingerprint 
confidentialinc@gmaiLcom 
+ Create Key Pair 
Sign Outl Calgary 
Import Key Pair 
Actions 
Oelete Key Pair 
Delete Key Pairs 
Floating IPS 

Generate Private Key

Machine generated alternative text:
Create Key Pair 
Key Pair Name: 
devAccess 
Description: 
Key pairs are ssh credentials which are injected into 
mages when they are launched_ Creating a new key 
pair registers the public key and downloads the 
private key (a _pem file). 
Protect and use the key as you would any normal 
ssh private key. 
Cancel 
Create Key Pair 

Save Private Key File to Computer

Machine generated alternative text:
cgbera 
Project 
Compute 
Over„'l ew 
Instances 
Volumes 
Images 
Access & Security 
Object Store 
Containers 
RAC usage 
Usage Graphs 
confidential.inc@gmail.com 
confidentialinc@gmaiLcom 
Sign Outl Calgary 
Download 
The key pair 
Download key pair 
Key Pair 
"devAccess" should download automatically. If not use the link below. 
Opening devaccess.pem 
"devAccess" 
You have chosen to open: 
devaccess.pem 
which is: pem File (I KB) 
from: https://cloud.cybera.ca 
What should Firefox do with this file? 
0 Open with 
@:Save File 
Do this automatically for files like this from now on. 
Cancel 

Step 3 - Launch an Instance

Machine generated alternative text:
cgbera 
Project 
Compute 
Over„'l ew 
Instances 
Volumes 
Images 
Access & Security 
Object Store 
RAC usage 
confidential.inc@gmail.eom 
Instances 
Instances 
Instance Name 
Displaying O tems 
IP Address 
Size 
Key Pair 
Q 
Status 
confidentiaLinc@gmaiLcom 
Fitter Launch Instance 
Sign Outl Calgary 
Soft Reboot Instances 
Power State 
Terminate Instances 
Image Name 
Uptime 
Actions 
Availability Zone 
Task 
No items to display. 

Enter Image Information and Operating System for the Virtual Machine

Machine generated alternative text:
Launch Instance 
Post-Creation 
Advanced Options 
Specify' the details for launching an instance. 
The chart below shows the resources used by this project 
in relation to the project's quotas_ 
Details * 
Access & Security * 
Availability Zone: 
nova 
Instance Name: 
dev-host 
Flavor: 
ml _tiny 
Instance Count: 
Instance Boot Source: 
Boot from image 
Image Name: 
Centos (686.2 MB) 
Flavor Details 
Name 
VCPUs 
Root Disk 
Ephemeral Disk 
Total Disk 
RAM 
Project Limits 
Number of Instances 
Number of VCPUs 
Total RAM 
ml _tiny 
612 Ma 
Oof 8 Used 
Oof 8 Used 
O ME Used 

Associate the Private Key you generated with the Instance

Machine generated alternative text:
Launch Instance 
Post-Creation 
Advanced Options 
Control access to 'Aur instance Via key pairs, security 
Details * 
Key Pair: 
Access & Security 
groups, and other mechanisms_ 
Security Groups: 
default 
Cancel 
Launch 

(Optional) Add in startup script to run after instance is deployed

Machine generated alternative text:
Launch Instance 
Advanced Options 
fter it's launched using 
A script or set of commands to be 
Details * 
Access & Security * 
Post-Creation 
Customization Script: 
# Simple Deployment Script Can Go Here 
nalogous to "User 
executed after the instance has been 
built (max 18kb) 
ata In ot er systems 
Cancel 
Launch 

Launch the Instance

Machine generated alternative text:
Launch Instance 
Post-Creation 
Advanced Options 
Automatic: Entire disk is single partition and automatically 
resizes. 
Manual: Faster build times but requires manual 
Details * 
Disk Partition: 
Automatic 
Access & Security * 
partitioning_ 
Cancel 
Launch 

Associate the floating IP to the Instance

Machine generated alternative text:
cgbera 
Project 
Compute 
Over„'l ew 
Instances 
Volumes 
Images 
Access & Security 
Object Store 
RAC usage 
confidential.inc@gmail.eom 
Instances 
Instances 
IP Address 
Size 
ml _tiny 
E12Pvqa 
RAM 
VCPU 
s_oca 
Disk 
Key Pair 
devAccess 
confidentialinc@gmaiLcom 
Fitter 
+ Launch Instance 
Sign Out 
Calgary 
Terminate Instances 
Image 
Name 
Centos 
Soft Reboot Instances 
Uptime 
0 minutes 
Actions 
Create Snapshot More 
Associate Floating 'P 
Edit Instance 
Edit Security Groups 
View Log 
Pause Instance 
Suspend Instance 
Soft Reboot Instance 
Hard Reboot Instance 
Shut Off Instance 
Rebuild Instance 
Terminate Instance 
Power 
State 
Running 
Instance 
Name 
dev-host 
Displaying I tem 
Status 
Active 
Availability 
Zone 
nova 
Task 
None 

Choose the instance and select the IP

Machine generated alternative text:
Manage Floating IP Associations 
IP Address * 
IP Address: 
Instance to be associated: 
dev-host (32bS29ba434d4ed3-86934bggSf62ec v 
Select the IP address Wish to associate With the 
selected instance. 
Cancel 
Associate 

Step 4 - Download PuTTY and PuTTYgen

Machine generated alternative text:
Instance Overview - Open... 
PUTTY Download Page 
e Search 
PuTTY Download Page 
Home Licence FAO Docs Download Links 
Mirrors Updates Feedback I Changes Wishllst Team 
www.chiark. 
greenend.org.uk/—sgtatham/putty/download.html 
Here are the PuTTY files themselves: 
. PuTTY (the Telnet and SSH client itselD 
. PSCP (an SCP client: i.e. command-line secure file copy) 
. PSFTP (an SFTP client: i.e. general file transfer sessions much like FTP) 
. PuTTYtel (a Telnet-only client) 
. Plink (a command-line interface to the PuTTY back ends) 
. Pageant (an SSH authentication agent for PuTTY: PSCP, PSFTP: and Plink) 
. PuTTYgen (an RSA and DSA key generation utility) 

Choose the Version you wish to download

Machine generated alternative text:
For Windows on Intel x86 
(or by FTP) 
(or by FTP) 
(or by FTP) 
(or by FTP) 
(or by FTP) 
(or by FTP) 
(or by FTP) 
A si 
A si 
A si 
A si 
A si 
A si 
A si 
PuTTY- 
PuTTYte1: 
pscp: 
PSFTP: 
Plink: 
Pageant 
PuTTYgen: 
_ exe 
puttytel _ exe 
s .exe 
s _exe 
plink _ exe 
pageant_exe 
putty gen _ exe 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
(DSA sig) 
A .ZIP file containing all the binaries (except PuTTYtel), and also the help files 
Zip file- 
(or by FTP) 
A si 
A si 
A si 
A si 
A si 
A si 
A Windows installer for everything except PuTTYtel 
Installer : 
putty-O. 65 -installer. exe 
(or by FTP) 
(or by FTP) 
(or by FTP) 
(or by FTP) 
(or by FTP) 
Checksums for all the above files 
SHA-I: 
SHA-256: 
SHA-512: 
md5sums 
shal sums 
sha256sums 
shas 12 sums 

Step 5 - Run PuTTYgen - Click Load

Machine generated alternative text:
PuTTY Key Generator 
File Key Conversions 
No key 
Help 
Generate 
O SSH-2 DSA 
Generate a public/private key pair 
laad an existing private key file 
Save the generated key 
Parameters 
Type of key to generate 
O (RSA) 
@SSH-2 RSA 
11/3/2015 e:D8PM 
11/3/2015811 PM 
Application 
Application 
Number of bits In a generated key 
putty.exe 
puttygen.exe 

Choose the .pem file you downloaded earlier

Machine generated alternative text:
PuTTY Key Generator 
File Key Conversions Help 
Load private key. 
This PC Downloads 
Select all 
Search Downloads 
Organize 
New folder 
Type 
Adobe Acrobat D 
PEM File 
zip Archive 
Application 
HDDIMG File 
zip Archive 
Application 
Application 
Application 
Open Virtualizatic 
ISO File 
PEM File 
Cancel 
Name 
Date modified 
10/6/2015 4:54 PM 
11/3/2015810 PM 
10/25/2015 1:20 PM 
9/30/2015 PM 
AM 
11/2/2015442 PM 
11/3/2015 8:08 PM 
11/3/2015811 PM 
9/28/2015 4:44 PM 
10/19/2015 6:49 PM 
10/21/2015 5:02 PM 
All Files ff.') 
Open 
I ua 
Dropbox 
OneDrive 
This pc 
Desktop 
Documents 
Downloads 
Music 
Pictures 
Videos 
Local Disk 
Removable Disk 
ConflictManagement-KyIeDerbyMacInni... 
devaccess.pem 
ENCM LOI - (Fall 2015)- Fundament.. 
ganttproject-2.7. - r 1924. exe 
Iinux-image ene1573-v5.hddimg 
Mathematica 102.0 WIN.zip 
openvpn-instaII-2B.8- 601-06 64.exe 
putty. exe 
puttygen.exe 
Sandbox HOP 2B I vitualbox.ova 
O 
ubuntu- 14.UB-server-amd64.iso 
webaccess.pem 
pen 
File name: 
ua 
.ova 

Click "Save Private Key"

Machine generated alternative text:
PuTTY Key Generator 
File Key Conversions Help 
Public key for pasting into OpenSSH authorized keys file 
ssl„-sa AAAAB3NzaC1yc2EAAAADAQABAAABAQDdROt0TbNNm/ 
+QwNdLrdHdhbiY40PUFJR8PCn4jJWkmpNRIHLIUd7fU5MpPYcXUvCpCyVErJEAZg 
4JHD5L.EKRrKPsxOPPG41TdZ424XSp8XACVrk-flwCtTIdxb,7VR8LE1uORsSGduj2 
eoCr7FezEzVJWPNBWLINGIBGatNyCLX2%yq/5HroLsxemjQPqFDEYAB8Pz51FTm 
fN6NsR32sWFOT2bAXORJIYe/IeXcWSZS07F 
Key comment 
Key p assphrase 
Confirm p assphrase 
2048f83E38c5 Iffb cc 52 Se 76 
Imported-opensshkey 
Save public key 
O SSH-2 
Generate 
Load 
Save private key 
Generate a public/private key pair 
laad an existing private key file 
Save the generated key 
Parameters 
Type of key to generate 
O (RSA) 
@SSH-2RSA 
Number of bits In a generated key 

Click Yes

Machine generated alternative text:
PuTTYgen Warning 
Are you sure you want to save this key 
without a passphrase to protect it? 

Save .ppk file (PuTTY Private Key)

Machine generated alternative text:
Save private key as: 
Search Downloads 
Organize 
This PC Downloads 
New folder 
Date modified 
10/4/2015 11:55 PM 
10/4/2015 3:38 PM 
10/3/2015 PM 
9/25/2015 3:42 PM 
10/4/2015 3:59 PM 
Sav e 
Type 
File folder 
File folder 
File folder 
File folder 
File folder 
Cancel 
Name 
Corel.VideoStudio.UItimate.X8.v 8.0.0. 
Project Professional 2013 (x86 and x64) 
SigGet 
spARK 
Visio Professional 2013 (x86 and x64) 
v ThisPC 
Desktop 
Documents 
Downloads 
Music 
Pictures 
Videos 
Local Disk 
Removable Disk 
Removable Disk (I v 
Filename: 
Save as type: PUTTY Private Key Files .ppk) 
Hide Folders 

Step 6 - Open PuTTY - Input Floating IP and choose port 22

Machine generated alternative text:
PI-ITTY Configuration 
Cat egory 
Logging 
Terminal 
Keybo ard 
Features 
E Window 
Behaviour 
Translation 
Selection 
Colours 
Connection 
Data 
Telnet 
Rlogin 
+ SSH 
Serial 
Basic options for your Pu TTY session 
Specify the destination you want to connect to 
Host Name (or IP address) 
182246156 0 
Connection type 
O Raw O Telnet O Rlogin @SSH 
Load save or delete a stored session 
C) Serial 
Delete 
Saved Sessions 
Defautt Settings 
Close window on exit 
C) Aways C) Never 
@Only on clean exit 

Click "Data" on the left hand menu and input "centos" into the username (operating system name in lowercase)

Machine generated alternative text:
PI-ITTY Configuration 
Cat egory 
Session 
Logging 
Terminal 
Keybo ard 
Features 
E Window 
Appearance 
Behaviour 
Translation 
Colours 
- Connection 
Data 
P ropy 
Telnet 
Rlogin 
+ SSH 
Serial 
Data to send to the server 
bgin details 
Aut040gin usemame 
centos 
When usemame is not specified 
@ Prompt 
C) use system usemame (Kyle) 
Terminal details 
Terminal ope string 
Terminal speeds 
Environment variables 
Van able 

Click SSH->Auth and browse for the .ppk file you saved earlier

Machine generated alternative text:
PI-ITTY Configuration 
Options controlling SS H authentication 
Bypass authentication entirely (SS H-2 only) 
Display pre-authentication banner (SS H-2 only) 
Authentication methods 
kempt authentication using Pageant 
kempt TIS or CryptoCard auth (SSH-I) 
kempt 'keyboardqnteractive" auth (SS H-2) 
Authentication parameters 
Alow agent forwarding 
Alow attempted changes of usemamein SSH-2 
Private key file for authentication 
C X I _lseÆXK'/eXDownIoads&vaccess.p1 Browse 
Cat egory 
Features 
E Window 
Behaviour 
Translation 
Selection 
Colours 
Connection 
Data 
Telnet 
Rlogin 
SSH 
Cipher 
Bugs 
More bugs 
V 

(Optional) Save the settings as a session by saving it for future use

Click Open

Machine generated alternative text:
PI-ITTY Configuration 
Cat egory 
Logging 
Terminal 
Keybo ard 
Features 
E Window 
Appearance 
Behaviour 
Translation 
Selection 
Coloum 
Data 
Telnet 
Rlogin 
SSH 
Basic options for your Pu TTY session 
Specify the destination you want to connect to 
Host Name (or IP address) 
182246156 0 
Connection type 
C) Raw O Telnet O Rlogin @SSH 
Load save or delete a stored session 
C) Serial 
Delete 
Saved Sessions 
CloudAccessl 
Defautt Settings 
CloudAccess 
Close window on exit 
C) Aways C) Never 
@Only on clean exit 

Click Yes

Machine generated alternative text:
PuTTY Security Alert 
The server's host key is not cached in the registry. You 
have no guarantee that the server is the computer you 
think it is. 
The server's rsa2 key fingerprint is: 
ssh-rsa 
If you trust this host, hit Yes to add the key to 
PuTTY's cache and carry on connecting. 
If you want to carry on connecting just once, without 
adding the key to the cache, hit No. 
If you do not trust this host, hit Cancel to abandon the 
connection. 
Cancel 

Step 7 - You are now logged in - Welcome to Linux (use sudo to perform root actions)

Machine generated alternative text:
IcentosÉdevnost — ) S sado su 
(root@devhost centos) # whoami 
root 
(root@devhost centos) # 