**Correct instruction how to create IOU Licence**

All operations are done on EVE cli:

1. Login into EVE root/your password
2. Verify if your internet is ok ping [www.google.com](http://www.google.com), if success do next:
3. Install nano editor

apt-get install nano

1. Go to location:

cd /opt/unetlab/addons/iol/bin/

1. Create iou keygen file

nano ioukeygen.py

1. File opens and copy this content to it:

#! /usr/bin/python2

print "\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

print "Cisco IOU License Generator - Kal 2011, python port of 2006 C version"

import os

import socket

import hashlib

import struct

# get the host id and host name to calculate the hostkey

hostid=os.popen("hostid").read().strip()

hostname = socket.gethostname()

ioukey=int(hostid,16)

for x in hostname:

 ioukey = ioukey + ord(x)

print "hostid=" + hostid +", hostname="+ hostname + ", ioukey=" + hex(ioukey)[2:]

# create the license using md5sum

iouPad1='\x4B\x58\x21\x81\x56\x7B\x0D\xF3\x21\x43\x9B\x7E\xAC\x1D\xE6\x8A'

iouPad2='\x80' + 39\*'\0'

md5input=iouPad1 + iouPad2 + struct.pack('!L', ioukey) + iouPad1

iouLicense=hashlib.md5(md5input).hexdigest()[:16]

# add license info to $HOME/.iourc

print "\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

print "Create the license file $HOME/.iourc with this command:"

print " echo -e '[license]\\n" + hostname + " = " + iouLicense + ";'" + " | tee $HOME/.iourc "

print "\nThe command adds the following text to $HOME/.iourc:"

print "[license]\n" + hostname + " = " + iouLicense + ";"

# disable phone home feature

print "\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

print "Disable the phone home feature with this command:"

print " grep -q -F '127.0.0.1 xml.cisco.com' /etc/hosts || echo '127.0.0.1 xml.cisco.com' | sudo tee -a /etc/hosts"

print "\nThe command adds the following text to /etc/hosts:"

print "127.0.0.1 xml.cisco.com"

print "\n\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"

1. Save keygen file with key combos:

ctrl+o, answer yes (ctrl+ letter o)

ctrl+x, for exit

1. Fix permissions for new created script file:

chmod +x ioukeygen.py

1. Run this script:

./ioukeygen.py

1. Output will show you generated lic:

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Cisco IOU License Generator - Kal 2011, python port of 2006 C version

hostid=007f0101, hostname=eve-ng, ioukey=7f0343

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Create the license file $HOME/.iourc with this command:

 echo -e '[license]\neve-ng = 972f302xxxxxxxxx;' | tee $HOME/.iourc

The command adds the following text to $HOME/.iourc:

[license]

eve-ng = 972f302xxxxxxxxx;

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Disable the phone home feature with this command:

 grep -q -F '127.0.0.1 xml.cisco.com' /etc/hosts || echo '127.0.0.1 xml.cisco.com' | sudo tee -a /etc/hosts

The command adds the following text to /etc/hosts:

127.0.0.1 xml.cisco.com

1. Copy generated lic info to notepad.
2. Create iourc lic file for EVE

nano iourc

1. Paste lic info in it:

[license]

eve-ng = 972f302xxxxxxxxx;

1. Save iourc file with key combos:

ctrl+o, answer yes (ctrl+ letter o)

ctrl+x, for exit

1. Fix permissions with:

/opt/unetlab/wrappers/unl\_wrapper -a fixpermissions

Location of iourc file in the EVE is:

/opt/unetlab/addons/iol/bin/