

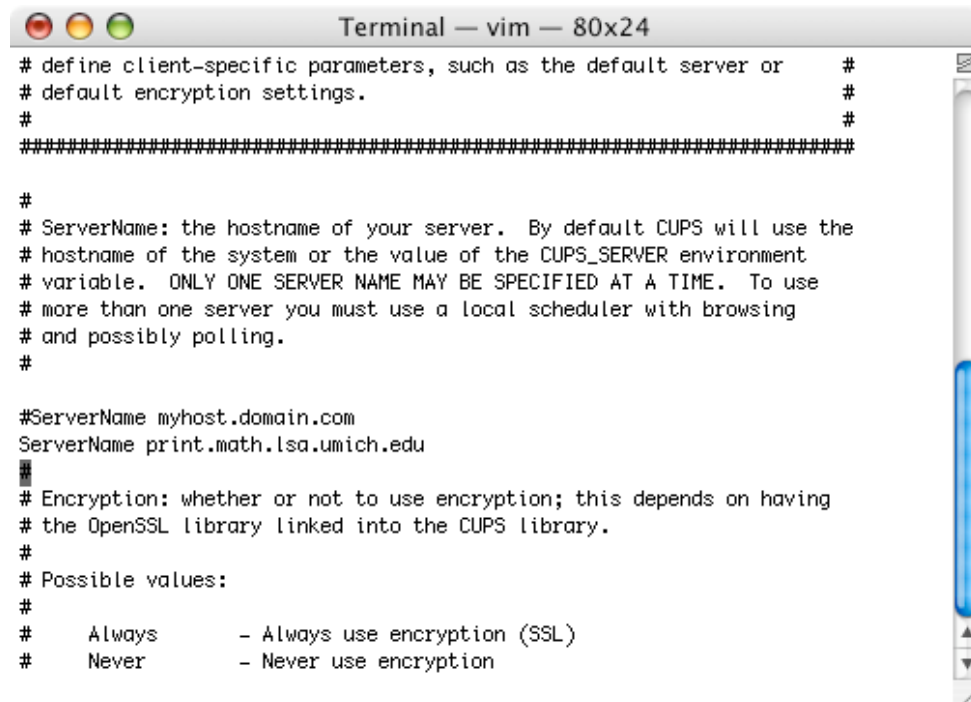
Math IT HOW-TO: Setting Up MacOSX to Print On Math Dept. Shared Queues

1. Login to the computer as an admin user.
2. Open a terminal window, and type the command **sudo -s** and enter the root password.
- 3(a). If the machine will never have a local USB printer...

Use an editing tool to edit the following file: */etc/cups/client.conf*

Below the line that reads *#ServerName myhost.domain.com*, add the following line:

ServerName print.math.lsa.umich.edu



```
Terminal - vim - 80x24
# define client-specific parameters, such as the default server or #
# default encryption settings. #
# #
#####
#
# ServerName: the hostname of your server. By default CUPS will use the
# hostname of the system or the value of the CUPS_SERVER environment
# variable. ONLY ONE SERVER NAME MAY BE SPECIFIED AT A TIME. To use
# more than one server you must use a local scheduler with browsing
# and possibly polling.
#
#ServerName myhost.domain.com
ServerName print.math.lsa.umich.edu
#
# Encryption: whether or not to use encryption; this depends on having
# the OpenSSL library linked into the CUPS library.
#
# Possible values:
#
# Always - Always use encryption (SSL)
# Never - Never use encryption
```

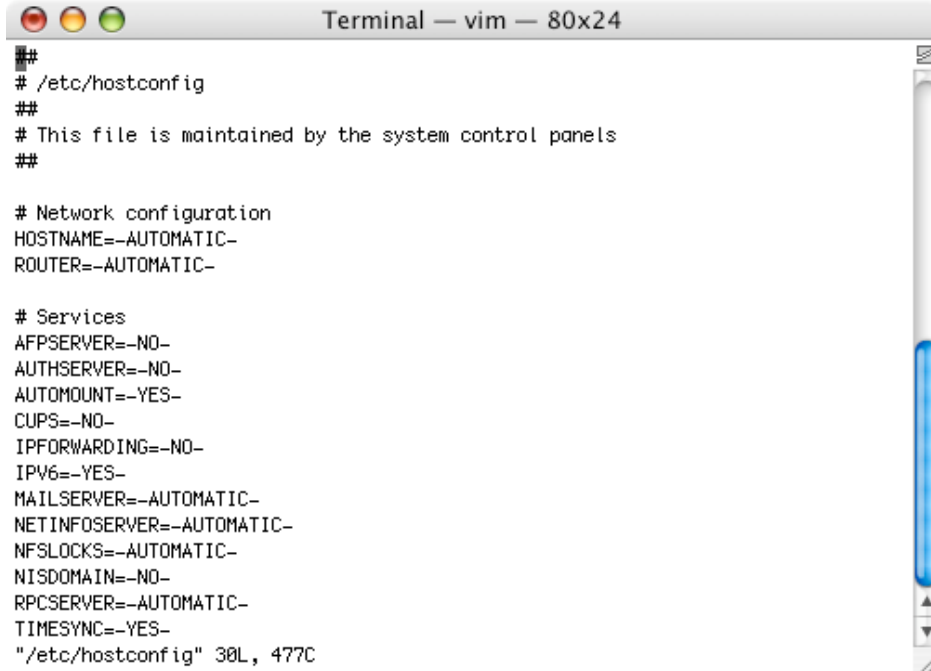
Next, be sure to save the file, and exit the editor.

Now, you should be at the command prompt once again. Type **killall cupsd**

Next, use the editor once again to edit the following file: */etc/hostconfig*

Scroll about halfway down, and modify the line **CUPS=-YES-** to **CUPS=-NO-**

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A screenshot of a macOS Terminal window titled "Terminal — vim — 80x24". The window shows the contents of the file /etc/hostconfig. The text is as follows:

```
##
# /etc/hostconfig
##
# This file is maintained by the system control panels
##

# Network configuration
HOSTNAME--AUTOMATIC-
ROUTER--AUTOMATIC-

# Services
AFPSSERVER--NO-
AUTHSERVER--NO-
AUTOMOUNT--YES-
CUPS--NO-
IPFORWARDING--NO-
IPV6--YES-
MAILSERVER--AUTOMATIC-
NETINFOSSERVER--AUTOMATIC-
NFSLOCKS--AUTOMATIC-
NISDOMAIN--NO-
RPCSERVER--AUTOMATIC-
TIMESYNC--YES-
"/etc/hostconfig" 38L, 477C
```

You may now save and exit the editing program, along with the terminal window.

3(b). If the machine has or will have a local USB printer...

Use an editing tool to edit the following file: */etc/cups/cupsd.conf*

Scroll down until you reach the line that reads: *BrowseShortNames No*

Replace that line with the following command; **BrowseShortNames Yes**

```
#
# BrowseShortNames: whether or not to use "short" names for remote printers
# when possible (e.g. "printer" instead of "printer@host".) Enabled by
# default.
#
BrowseShortNames Yes
#
# BrowseAllow: specifies an address mask to allow for incoming browser
# packets. The default is to allow packets from all addresses.
#
# BrowseDeny: specifies an address mask to deny for incoming browser
# packets. The default is to deny packets from no addresses.
```

Next, scroll down until you reach the line *#BrowsePoll address:port*

One line below that line, add the following:

BrowsePoll print.math.lsa.umich.edu:631

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```
#BrowseOrder allow,deny
#BrowseOrder deny,allow

#
# BrowsePoll: poll the named server(s) for printers
#

#BrowsePoll address:port
BrowsePoll print.math.lsa.umich.edu:631
#
# BrowsePort: the port used for UDP broadcasts. By default this is
# the IPP port; if you change this you need to do it on all servers.
# Only one BrowsePort is recognized.
```

You may now save the file, and exit the editor.

Next, enter **killall cupsd** at the command prompt.

Wait approximately one minute, and then enter and run **/usr/sbin/cupsd**

4. Now, all of the print queues on the server should show up as Shared Printers.
5. Exit the sudo session, and log out as an admin user.