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Flip1405 – The Failover Asterisk Solution

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Flip1405 is an Asterisk Failover solution that was created in early 2008. I found the need to create an easy to install failover solution for Asterisk servers. After a couple hours on a Sunday night, I had the first version completed. In 2009 someone who came across this script reworked the code to add new features, and I updated the site. Now, in 2011 I am glad to announce that there is a new version that has many new features and improvements over my existing code. Many thanks to Jonathan Bayer for updating the script again. His site is http://linuxnotes.us

Excerpt taken from his site:
Congratulations! You have now set up your first Asterisk-based VOIP server.

Next question (probably the first your boss will ask you): What happens when the server crashes, or loses power, or needs to be upgraded, or…….; well, you get the idea. If you only have a single server, you lose your phones until it is rebooted. Given that you probably installed this on a cheap, inexpensive piece of hardware, these questions are not out of the question, especially for a business.

We had the same questions, and have implemented a failover solution. I started with a script I got from this web page, but was dissatisfied with it. It seemed to be a bit of a kludge, in that it wasn't a true HA solution, but was only a backup solution.

I did a massive reworking of the script, and the result downloadable from here:

flip1405.sh

This script is used to synchronize the /tftpboot with the /var/ftp/ directory:

syncftp.sh

The only dependencies for Flip1405.sh are nmap and arping

To use, first get your primary Asterisk server running smoothly. When ready, you can either clone it using Clonezilla (or some other utility) or just install Asterisk on the second box. Then follow these steps:

Setup shared-keys so the servers can copy between each other without user intervention. Setup Login without password
Set up ftp (I use vsftp), if needed. We use it to download the configurations for the Aastra phones. Usually we would use tftp, but since we have some phones outside our office we simply use ftp for everything.
Install this script into /usr/local/sbin on the primary/active system.
Run the script with the -s option:
/usr/local/sbin/flip1405.sh -s
The second script: syncftp.sh, is used to synchronize the /tftpboot directory with the /var/ftp directory. If you need it, install the syncftp.sh script into /usr/local/sbin
Open up the flip1405.sh in an editor, and check the various settings. I would recommend that if you

need to change them, to use a config file (/etc/sysconfig/flip1405) rather than editing each file. The config file is NOT sync'd between the systems, so you can have system specific options in the file. There is no need to specify the device, or whether the system is a master or slave. The script determines this at run time. The most important lines to set are the first three variables: MASTERIP, SLAVEIP, and FLOAT. These are:

MASTERIP IP address of the master system (arbitrary name)

SLAVEIP IP address of the slave system

FLOAT IP address that will float between the Master and Slave, and which your phones will access

All other variables are set for an Elastix system. Elastix is based on the following:

Asterisk 1.6

Centos 5.5

FreePBX 2.6

Make sure to set the bindaddr to the virtual IP address in /etc/asterisk/sip.conf or /etc/asterisk/sip_general_custom.conf

bindaddr=192.168.1.12 ;IP of Virtual interface

Add the following line(s) to the root crontab (only install the syncftp.sh line if you are using it):

* * * * * /usr/local/sbin/flip1405.sh

*/5 * * * * /usr/local/sbin/syncftp.sh

If you like, you can add the following lines to /etc/crontab instead:

* * * * * root /usr/local/sbin/flip1405.sh

*/5 * * * * root /usr/local/sbin/syncftp.sh

If you have phones outside your network, you will need to configure your firewall to direct the following ports to the FLOAT address:

tcp 21 (if you are using ftp)

tcp 3000

udp 3000

tcp 5060-5082

tcp 10000-20000

tcp 5800-5900

udp 5060-5082

udp 1000-20000

udp 5800-5900

Click below to see previous versions (20090327)

[Old Versions](#)

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57 Comments on "Flip1405 – The Failover Asterisk Solution"

1. 1 *balaji said at 12:49 am on July 14th, 2008:*

   Hi

   can you explain where this script going to be installed.

   so i need 3 servers for this to run

   iam using user to register with Openser

   Openser intern send to PSTN using asteriskserver

   this where the problem come in if one of the Asterisk server go down, iam not able to send the traffic to another server, i can use failover, but if i have less number of loops in openser, it serve better

   so how does the network diagram looks yours

   user—openser—asterisk (existing)

   with your script

users—openser—-scriptserver——Asterisk1
|———–asterisk2

is this correct

balaji

2.   2 *admin said at 6:15 am on July 14th, 2008:*

The script actually runs on the Asterisk server.

You would schedule the primary script to run on your asterisk(PSTN) gateway and setup a secondary asterisk(PSTN) with the secondary script. I've found that cron.every1(minute) works best.
This way the script would manage the virtual IP between both of the Asterisk (PSTN) gateways and it also updates the ARP tables via a gratuitous ARP request.

Your openser would always send traffic to the same IP and any failover would be seamless within 25 seconds. You could always set the script to run every 15 seconds, there isn't much overhead at all (just a simple query to see if the other * server is responding on UDP 5060.

user-openser—asterisk (primary script-live) PSTN
\—asterisk (secondary script-standby)—/

Let me know if you need any help setting it up. I will upload some scripts to replicate configs via rsync. This will make the install/config process much easier.

3.   3 *Ian said at 6:17 am on July 16th, 2008:*

Hi Does this see if Asterisk is up or just that the virtual ip is up ? if its the latter then why not use heartbeat ?

4.   4 *admin said at 7:34 am on July 16th, 2008:*

I've found that heartbeat is a pain to setup based on all of its' dependencies and the configuration.

My script actually manages the virtual IP based on Asterisk responding to requests. It queries UDP 5060 to see if the main server is running.

I've also found out too often when using heartbeat that the service will hang, but the heartbeat will continue on.

No matter what the situation, Flip1405 has yet to cause a system outage for more than 30 seconds in the event of a hardware failure for my client companies.

Thank you for interest and please let me know if you have any other questions.

5.   5 *Josh said at 3:21 pm on August 4th, 2008:*

I would really like some help going thru this set up. Send me an e-mail if you have some time.

6. 6 *Asterisk High Availability Solutions | Neil Hook said at 9:55 am on August 14th, 2008:*

[...] Flip1405 Manages virtual IP between two Asterisk servers and queries UDP5060 for state changes [...]

7.   7 *Awoof said at 12:25 am on August 16th, 2008:*

will give it a shot...Good job

8.   8 *Lawrence said at 2:37 pm on August 22nd, 2008:*

is there a way to replicate the mysql database for CDR records in case the primary server dies

from hardware failure and then we could restore the data from the secondary box?

9. 9 *admin said at 5:53 am on August 23rd, 2008:*

Lawrence,

You can use the MySQL Master-Slave replication configuration explained here.

http://members.cox.net/midian/howto/mysqlReplication.htm

Thank you.

10. 10 *Lawrence said at 7:43 am on August 24th, 2008:*

im having a brain issue here on the pri box can the IP be a live ip ie.. 208.x.x.x as static ip and the sec box have this same ip as its virtual? or do i need to set up separate live ip on both boxes and a 3rd ip as the virtual?

i have a small call inbound call center for a taxi company 8 pots lines and 2 Sip providers 1 sip provider uses authentication for traffic, (no need for a static ip) the other needs a static IP for sip traffic (authenticates by IP)

i then have a second nic on 192.168.x.x for the polycom phones to authenticate and pass their traffic (polycoms dont NAT very well is the reason for this weirdness)

my thinking is that i need to setup the live side for the failover, or do i need to set up both sides live and NAT to failover? or could i set up a virtual IP on both nics on the nat side example eth1:0 192.168.20.100 PRI box and eth1:0 192.168.20.100 on SEC box? since asterisk is not running on the SEC box it shouldnt process any sip requests?

also i am using freepbx as the front end an had to modify the line service asterisk start to amportal start. when using service asterisk start because of the way freepbx starts asterisk asterisk is thrown into a start fail loop.

this is a great piece of work, the * community has needed something simple for the smaller installs, i to had given up on heartbeat with the dependacy hell and huge learning curve.

thanks again

11. 11 *T said at 8:57 pm on August 26th, 2008:*

Have you seen heartbeat and the Linux-HA project? How is yours different from say heartbeat+DRBD?

12. 12 *Chris said at 3:13 pm on August 27th, 2008:*

This really is cool – I've played (tried) various methods like keepalived, and various other heartbeat methods but they all seem a bit too complicated for my limited experience. Does this work OK with two Asterisk boxes in different locations – or do they need to be on the same subnet? I have a couple of Servers, one in a managed Data Centre and one at home...

Thanks,

13. 13 *admin said at 5:38 pm on August 27th, 2008:*

The Asterisk servers have to be on the same subnet because they share the (1) virtual IP. The real IP addresses can be whatever you want them to be.

Let me know if you have any questions and I will be glad to help.

Gregg

14. 14 *VanMan said at 4:04 pm on October 1st, 2008:*

I'm newbie to Linux and Asterisk and went through the process as described above but logically having some issues.
Q: What IP address is used for Phone registration? Primary or Virtual?
Q: When I take down the Primary Machine secondary machine should be the registrar for the phones and using Virtual IP for that make sense but in flip1405_primary it takes it down if the primary ip is responding.

I may not be asking the right question please excuse me for that.

VanMan

15.   15 *Jiltepolley said at 8:02 pm on October 5th, 2008:*

How i may contact admin this site? I have a question.
iijiivei

16.   16 *Grant said at 9:47 pm on October 10th, 2008:*

So what happens to users voicemail and such?

Say server 1 fails, and is down for two days...server 2 takes over for those two days.

But when server 1 comes back up, any CDR and voicemail that has been saved on server 2 gets deleted? Or will the syncing work both ways?

17.   17 *jean-louis said at 7:09 am on October 16th, 2008:*

Hi,
Thanks for your script, I just tested it.
some time ago I had tought to use UCARP as failover solution for my asterisk servers , UCARP was find but was not suitable with all "clients ".
IAX softphones could not register on asterisk when using a virtual IP ,
SIP clients depends
SCCP clients no problems

I have the same result with your script,
did you succeed registering IAX clients on a virtual IP of an asterisk server ?
thanks,
jl

18.   18 *VC said at 7:43 pm on October 17th, 2008:*

When Server1 fails, then all of the calls drop, right? But then Server2 comes online so that the next call 30s later is successfully connected. Correct?

I'm not complaining. I just want to get some clarification.

Thanks

19.   19 *Stewart said at 6:27 pm on October 19th, 2008:*

Hi

I'm just planning a large Trixbox install that requires failover and came across Flip1405. Can this solution be applied to a Trixbox installation?

20.   20 *Paul said at 8:42 pm on November 5th, 2008:*

is it possible to failover but have manually intervention required to fail back? this will allow time to investigate the issue and control when the fail back outage will occur like outside of busy hour, plus it means less chance of a flip-flop issue arising.

Thanks

21. 21 *Paul* *said at 9:38 pm on November 16th, 2008:*

I have implemented your script and added some logging and email alerting. I have come across an issue which I am wondering if you have experienced.
I have both my asterisk boxes on a private IP addressed local LAN and access through my linux iptables firewall to the internet, I have all services running fine using the VIP IP for the port forwarding for SIP/RTP/RTCP traffic, the issue is when failing over the IP tables does not seem to use the GARP as a realtime change for the VIP port forwarding instead it keeps the old MAC address and send incoming responses to registration attempts to the asterisk box that has failed. Have you seen this behaviour and any suggestions?

Cheers

Paul

22. 22 *Syed* *said at 8:24 am on December 16th, 2008:*

This is good job. Anyway my question is, I've about 50 Cisco 7960 phones registered to my Asterisk server, can I use this program? like in Phone's setting I use virtual IP address as SIP proxy, so if primary Asterisk box goes down, will Cisco phones registered to 2ndary Asterisk box without restarting them?

This is important question for me, would be better if you send me email aswell at syedsauds@gmail.com

23. 23 *Scot* *said at 8:48 pm on January 10th, 2009:*

I have seen this question asked but I havent seen any answers, what happens when server one comes back online, does server 2 (the failover server) copy and sync all the new files that have been created while server one was down, like new voicemail and new cdr info etc back to server one?

24. 24 *prashant said at 10:38 am on February 24th, 2009:*

I have followed all ur point step by step, I am trying to run your flip1405 primary script in my asterisk server system but its not running, can u tell me what's the problem?
what should I do to run the script in linux operating system?

Thanks & Regards 😀

25. 25 *Indiver Nehru said at 4:40 am on March 4th, 2009:*

I want to try the above procedure for failover of asterisk server. I'm new to Linux. I had some questions regarding this

1) I downloaded and modified the rsync_replicate shell file according to my ipaddress. My question is where to keep rsync_replicate shell file in the primary or secondary. If in primary what is the destination path.

2) I created cron.every1 folder in my primary and secondary servers. I had one more doubt is it necessary to keep them in cron_every1 folder or we can keep in cron.daily folder located in /etc.

26. 26 *Gregory Boehnlein* *said at 12:04 pm on March 25th, 2009:*

Gregg,
Thanks for creating this! I've made several updates/changes to your script and have been using it successfully in production for a few weeks now. The changes are as follows:

Version 1.0 – 2009-03-25
– Consolidated Master/Slave scripts into a single script
– Converted hardcoded interface / IP configuration to variable based

– Forced Asterisk to issue a "reload" to bind to the floating IP
– Consolidated external rsync-replicate script to be self-contained

I'd like to give these back to the community, but wanted to have a conversation with you first about the potential for setting up a little more structured way to release the code. Can you drop me an E-mail when you get a chance?

27. 　27 *Lawrence* *said at 9:10 am on March 31st, 2009:*

im having a weird error when runnig the scripts, i changed to CentOS 5.2 with freepbx when running the script i get SIOCSIFFLAGS: Cannot assign requested address, if i do ifconfig eth0:1 192.168.xx.xx/24 up manually from command line eth0:1 shows up until the next cron.every1 rotation.
checked to see if i had nmap and arping installed and can see both packages....

i have the scripts running and a few different locations , just cant seem to find what i am missing in this current build..
any suggestions would be helpful

28. 　28 *Crontab said at 3:33 pm on August 17th, 2009:*

I still think heartbeat is a much more reliable solution although agreed it is slightly more difficult to setup. That being said I can see where this is useful for those who need something immediately while they work on a more robust solution.

29. 　29 *Saleem* *said at 2:02 pm on September 15th, 2009:*

This is a good work but my question is you mentioned the rsync method to sync the data between both servers but i want primary server should share only updated/changed data but not everything, because overwriting everything is not good approach. Plz guide. thanks

30. 　30 *admin* *said at 2:15 pm on September 15th, 2009:*

Hi,
It seems that an update from a reader/contributor to my code removed my existing rsync script.
Please use the script code below (modify as needed), as it will only sync to "touched" files.

#!/bin/bash
rsync -avz –size-only -e "ssh -i /root/rsync-key" /etc/asterisk/extensions.conf root@192.168.1.3:/etc/asterisk/extensions.conf
rsync -avz –size-only -e "ssh -i /root/rsync-key" /etc/asterisk/voicemail.conf root@192.168.1.3:/etc/asterisk/voicemail.conf
rsync -avz –size-only -e "ssh -i /root/rsync-key" /etc/asterisk/queues.conf root@192.168.1.3:/etc/asterisk/queues.conf
rsync -avz –size-only -e "ssh -i /root/rsync-key" /etc/asterisk/sip.conf root@192.168.1.3:/etc/asterisk/sip.conf
rsync -avzr –size-only -e "ssh -i /root/rsync-key" /var/spool/asterisk/voicemail root@192.168.1.3:/var/spool/asterisk
rsync -avzr –size-only -e "ssh -i /root/rsync-key" /var/lib/asterisk/moh root@192.168.1.3:/var/lib/asterisk/moh
rsync -avzr –size-only -e "ssh -i /root/rsync-key" /var/lib/asterisk/sounds root@192.168.1.3:/var/lib/asterisk
rsync -avzr –size-only -e "ssh -i /root/rsync-key" /home/PlcmSpIp root@192.168.1.3:/home
rsync -avzr –size-only -e "ssh -i /root/rsync-key" /var/www/html/ root@192.168.1.3:/var/www

31. 　31 *hb said at 5:07 pm on January 20th, 2010:*

I noticed a typo in your script
rsync -avzr –rsh=ssh /var/lib/asterisk/moh root@$SLAVEIP:/var/lib/asterisk/moh causes the moh folder to be created on folder deeper.

removing the /moh/ fixes the typo
rsync -avzr –rsh=ssh /var/lib/asterisk/moh root@$SLAVEIP:/var/lib/asterisk

32. 32 *admin* said at 5:18 pm on January 20th, 2010:

Thank you very much for the contribution! I edited the script.

33. 33 *RazaMetaL* said at 6:43 pm on February 25th, 2010:

Hi,

I'm using the latest version but have some questions.

I've added one cron task as root with crontab -e:
*/1 * * * * /usr/bin/flip1405.sh

The script seems like is doing nothing, if I reboot the master server, the slave does not get the virtual ip, when the master server is up again i need to execute manually /usr/bin/flip1405.sh to have the virtual ip as secondary on my ethernet card.

I don not know if is necessary to add any other paremeters to the cron command?

Best regards,

34. 34 *Sam* said at 9:49 am on March 24th, 2010:

Hi,
As Virtual IP requires both boxes to the on the same subnet, do you have any clue on how the redundancy can be archived without these two servers being on the same subnet?

35. 35 *Tony Cruz* said at 10:56 am on March 25th, 2010:

Hi I have a Elastix setup and works great I will like to implement this script but I need to know where to install it in the server and if there is anything else besides the script at the top of this post that needs to be added or if you have a guide on how to implement it I will appreciated it

Thank you
Tony Cruz

36. 36 *admin* said at 12:18 pm on April 8th, 2010:

Hi Tony,

You will need to implement the script just in the default locations for the cron.
Syncing the configuration data will be more of a challenge because you need to get the databases to sync. But for simple failover, you can get it all done by following the directions in the post.

Hope that helps,
Gregg

37. 37 *admin* said at 12:20 pm on April 8th, 2010:

Hi,

The idea with the virtual IP is that the devices pointing to it will seamlessly go to either server when the IP changes ownership.
If you can describe the environment you'd like to setup, I would be able to better understand and discuss a solution.

38. 38 *admin* said at 12:23 pm on April 8th, 2010:

You can go through the script and post from the Linux CLI to test.

Paste in the:
VARIABLE=$(nmap -sU -p 5060 blah blah blah etc etc)

Then:
echo $VARIABLE

That way you can see if you are getting the correct data that the script needs to run. If you can send me your layout (IPs) then I would be able to help you.

Hope that helps,
Gregg

39.   39 *Sikander* said at 12:01 am on April 10th, 2010:

Looking for help for setting up asterisk failover. I have to setup 2 servers primary and secondary. Let me know your affordable price please.

40.   40 *kman* said at 11:35 pm on May 19th, 2010:

Awesone stuff, just finished testing it all and will be putting it into production soon.

A note, Asterisk needs to be bound to the floating IP for some handsets to register/accept calls properly using 'bindaddr: x.x.x.x'. I put this in /etc/asterisk/sip_general_custom.conf

Thanks much folks!

41.   41 *admin* said at 7:38 am on May 20th, 2010:

Thank you, I forgot to mention the bindaddr portion in the article. I will add that now. Cheers.

42.   42 *a visitor* said at 9:17 am on June 5th, 2010:

In the instruction above you mentioned "Make sure to set the bindport to the virtual IP address", shouldn't it be bindadrr ? based on the comment right above.

43.   43 *Brian* said at 4:02 pm on July 6th, 2010:

Hi,

Looks interesting! 2 Questions

What about astdb?

What if IAX2 support isn't installed?

Maybe the check would be better for SIP.

Regards,
Brian

44.   44 *Ron* said at 12:24 pm on July 28th, 2010:

Hi, over there,

this is really a cool script and it does what it was designed for. Just tested it.
Since you wanted feedback:I am just trying to have some more services checked. Maybe my ambitions are not so clever cause I could try it out with heartbeat2 ... Because I am not only running httpd and asterisk on it. Furthermore, I have mysql-replication with Master and Slave (which is PRI and SEC, respectivly) and just because of this fact (keeping database clean) I have to "send" some mysql commands so that the slave becomes master.

I don't know if you care at all about that, but I just wanted to thank you for that good bash-template ... but if YOU got any hints for me, my ears and eyes are wide opened 😊

best wishes,
r0n

45. 　45 *lawrence* *said at 11:02 am on October 6th, 2010:*

i have been using this script for a couple years now, and have run into a snag. i have a set up with 3 offices and 3 voice vlans with mpls between the offices. when the primary server goes off line the secondary fails like it should and the phone on the same lan as the servers fail over and register, but none of the offsite phones will re register even with a reboot of the phones. the phones are snom 360′s. any ideas?

46. 　46 *MST* *said at 1:32 pm on October 25th, 2010:*

Should I poit my phones to virtual IP? also do NAT rules in FW point Virtual IP?

Thank you

47. 　47 *MST* *said at 10:49 am on October 28th, 2010:*

The script does it's job. Lets say if this script can be modify to do ISP failover if we have two of them.

Adding 2nd NIC to each server and reroute if one them fails.

Is that possible?

48. 　48 *Jonathan Bayer* *said at 2:20 pm on April 6th, 2011:*

Thanks for the script, but I found that it left a lot out. I've reworked it and have published it on my blog at: http://linuxnotes.us/archives/268

The new script adds the following, feel free to download it and publish it on your site as well:

1. Added ability to automatically determine both whether the
system is a master or a slave, and to determine the network
device on which the floating interface will exist
2. Added ability to have a config file override any of the
settings
3. Added VERBOSE flag for logging, and a -v command-line switch for
manual debugging
4. Added function to start and stop all necessary/specified services
needed for the server to function properly on the
virtual IP
5. Added function to sync a list of asterisk directories, other
directories, and files to the slave system
6. Added function to sync the same lists as #5 from the slave to
the master
7. Added function to check the system uptime, used by the slave
to make sure that in the event that both systems were rebooted
at the same time, that the master would come up first.
8. Added ability of master to sync from the slave
9. Added -s to copy current file to the other system in the same location
10. Added -r to force current system to release the virtualIP

49. 　49 *striker* *said at 5:20 am on April 11th, 2011:*

hi

i have small doubt

whether i need to run the flip1405.sh
in both the master and slave server or only in master server.

50. 50 *marco* *said at 2:28 am on June 28th, 2011:*

Hello your script is very cool and it's a serious alternative of the asterisk HA solutions offered online (Ucarp, heartbeast etc.)
I have a asterisk server with two network intefaces, public and private, and I accept registrations on both. I want to put it in HA with anhoter backup server.
For this reason i cant't set in sip.conf bindaddr=IP of Virtual interface, but I have to keep the default value 0.0.0.0 otherwise I would lose the recordings on one of the two interfaces (public or private).
In your script there is one interface, there is a solutions for my case?

51. 51 *Chris* *said at 4:29 pm on November 25th, 2011:*

Your script is great. I am new to Asterisk and Linux in general so I am stumbling through everything. I do have one question.

We are Device and User mode. What happens to the Logged in Users if the Primary server fails and the Secondary server automatically goes online? Will the users have to login to their phones again to make and receive phone calls?

52. 52 *JM* *said at 6:47 am on December 15th, 2011:*

Hi, cool script. I've modified the version a little bit to avoid problems when the master has been phisically disconnected (the slave takes over, that's OK). After reconnection the master still has the floating IP address, as does the slave.

To overcome this problem I added the following function:
#
checkCarrier checks if eth channel is phiscally connected
if carrier is down, script will return false (1)
#
function checkCarrier {
DEVICE=$1
UP=`grep "" /sys/class/net/$DEVICE/carrier`
if [$UP -eq 1]; then
return 0
else
return 1
fi
}

And in the checkStatus function I do this;
checkCarrier $DEVICE
CARRIER=$?
if ["$CARRIER" -eq 0] ; then
# execute the normal flow of checking
else
# Carrier is disconnected, NO LAN available
if ["$STATUS" == "open|filtered"] ; then ###is local asterisk up
if ["$PRIMARYIP" == "$FLOAT"] ; then ###does primary not own virtual ip?
Master was lost, slave has taken over
Master MUST loose the floating IP adres now else we will have 2 machines with same IP after reconnect
logit "Master got disconnected, taking interface down."
services stop
ifconfig $IFACE down
services start
fi
fi
fi

Hope this helps.

53. 53 *Mobile Prices In Pakistan* *said at 1:44 am on January 7th, 2012:*

Thank you very much for the contribution! I edited the script.

54. 54 *GF* *said at 5:02 am on March 20th, 2012:*

Hi, cool script. Thank you

55. 55 *rami* *said at 1:09 pm on February 13th, 2013:*

This script is awesome, but I am getting asterisk ended with exit status 0 on my console. Any idea what that may be from?

Thanks.

56. 56 *Jerry Winiarski* *said at 12:27 pm on September 3rd, 2013:*

I am very new to asterisk and really do not know how to use or edit this script as needed, is it possible to get some assistance with this as it is a critical need to get a 2nd redundant server going as quick as possible for avoiding possible system outage for my customers as I currently have no fail over system in place.

Thank you

57. 57 *tom* *said at 8:30 am on November 9th, 2013:*

Hi, thank you for the script! How can I change the port ssh in your script? The rsync use port 22 but I use other port by default in my machines.
Do you have a link for donations for your work? Best regards,

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ERROR: si-captcha.php plugin says imagepng function not detected in PHP!

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Cheers

-Gregg

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