

Re: Kerberos KDC to use for Hadoop instalations - luther_barnum@jabil.com - Jabil.com Mail

Wednesday, September 23, 2015 8:49 AM

Hi Luther,

Thanks for your help yesterday.

We're currently working on servers:

Data Nodes:

[usalfd0hdpdn41.corp.jabil.org](#)

[usalfd0hdpdn42.corp.jabil.org](#)

[usalfd0hdpdn43.corp.jabil.org](#)

[usalfd0hdpdn44.corp.jabil.org](#)

[usalfd0hdpdn45.corp.jabil.org](#)

[usalfd0hdpdn46.corp.jabil.org](#)

Name Nodes:

[usalfd0hdppn41.corp.jabil.org](#)

[usalfd0hdppn42.corp.jabil.org](#)

We are installing Hortonworks 2.3 on these servers today and will spend the remainder of today and tomorrow configuring them.

I have a few questions - I'm trying to determine if you can do some parallel work that will help us out.

1. How much effort is it to configure/enable Kerberos on these 8 servers?
2. Are you able to configure/enable Kerberos on these 8 servers without needing to restart them?

Thanks,

Inserted from <<https://mail.google.com/mail/u/1/#inbox/14fd723c923f2ecc>>

Welcome to OneNote for Mac

OneNote

Your very own digital notebook.



The screenshot illustrates the OneNote interface with three main sections highlighted:

- Notebooks:** Shows the left sidebar with "Student Notebook" selected, displaying notebooks like "Paris Trip Planning" and "Work".
- Sections:** Shows a section titled "Lecture: 'Scientific Classification' (Taxonomy)" containing text and a table about polar bear classification.
- Pages:** Shows a list of pages under "Class: Life" and "Lecture: 'Scientific Classification' (Taxonomy)".

Lecture: "Scientific Classification" (Taxonomy)

Scientific classification is a method for naming organisms (living things).

1. Created this system was Carolus Linnaeus
2. Specific species of organisms have a two word scientific name
 - o This is called "binomial nomenclature"
 - Example: Dog is *Canis lupus*

Here's how the Polar Bear's classification breaks down:

Classification	Description	Examples	Notes
Kingdom	<i>Animalia</i>	Polar bear, black bear, giant panda, fox, squirrels, snake, sea star	All animals are in this kingdom.
Phylum	<i>Chordata</i>	Polar bear, black bear, giant panda, fox, squirrels, snake	
Class	<i>Mammalia</i>	Polar bear, black bear, giant panda, fox, squirrels	All animals in this class are mammals.
Order	<i>Carnivora</i>	Polar bear, black bear, giant panda, fox	These animals are carnivorous (eat meat).
Family	<i>Ursidae</i>	Polar bear, black bear, giant panda	All bears (alive and extinct) are a part of this family.
Genus	<i>Ursus</i>	Polar bear, black bear	
Species	<i>U. maritimus</i>	Only the polar bear. "Ursus maritimus" is the polar bear's scientific name.	

Take command over your next class or project. OneNote notebooks are designed to make organization powerful and intuitive. Every notebook is organized into sections which contain pages, letting you decide how to visually arrange your notes. Keep a section for your song writing, your recipes, or your next vacation. Start a notebook for your next school year. Or just use OneNote to keep tabs on everything in your life.

Type anywhere
Hard to believe it's not paper.

Type anywhere

<http://contosotravel.com/paris/454655errer54>

Planned Trip Expenses

Paris budget:

Item	Qty.	Cost
Airfare	2 adults, 2 kids	\$2,940
Hotel	7 nights	\$873
Rental car	3 days	\$322
Gas	2 tanks	\$90
Tickets/Affiliation Fees	\$100 each person	\$400
Snacks	6 days	\$360
Meals	6 days	\$800
Souvenirs	\$75 each person	\$300
TOTAL BUDGET		\$4,918

Things to buy at home:

Item	Qty.	Cost
Suitcases	2 carry-on	\$150
Guide book	1 Paris travel book	\$25
Clothes	Misc.	\$100
TOTAL BUDGET		\$275

Airfare 48%
Meals 13%
Souvenirs 5%
Tickets/Affiliation Fees 7%
Gas 2%
Rental car 5%
Hotel 14%
Snacks 6%

Experience true freedom in taking notes. Every OneNote page is an infinite canvas. Type anywhere: Simply double-click and you're off. But freedom can be scary without a little structure. That's why notes are in containers that are easy to move. And tables are as easy to create as hitting Tab. Outline, annotate, or layout your thoughts any way you want.

Check these lists

Groceries never looked this good.

Check To Dos

Tag notes

Fig Salad with Prosciutto and Walnuts

Ingredients:

- 1 cup walnuts
- 1 bag mixed baby greens
- 1 ripe fig
- Balsamic vinaigrette
- Prosciutto

At least one slice per person

Directions (serves 2-4):

- In a bowl, toss cup chopped walnuts with mixed baby greens.
- Slice 1 ripe fig into small segments; add to salad.
- Toss with balsamic vinaigrette.
- Serve salad on individual plates or bowls, each serving topped with 1 slice prosciutto.

FIG SALAD

To Do
Important
Definition
Address
Question
Highlight
Phone number
To Do Tag

Roasted Peaches filled with Almond Duck Breast with Apricots and Lav...
Fig Salad with Prosciutto and Walnuts Maple Banana Splits
Tarragon and Asparagus Soup Cinnamon Basil Roast Chicken

Notes in the margin aren't just for paper. Tags are a versatile way to personalize how notes work for you. Easily mark what's important, what's a question, and what to remember for later. Or add To Do tags to your lists which you can check off on all your devices. So create a shopping list on your Mac, take it with you on your phone, and check your To Dos at the store. It's tasks made easy.

Think together

Get on the same page. At the same time.

Invite others

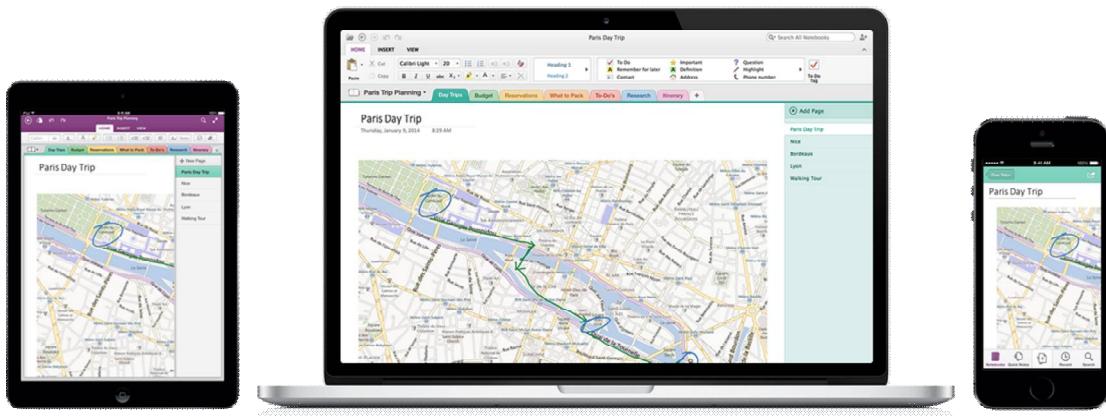
See the authors

Model	In Stock
Café Cruiser	8
City Streeter	5
Pathfinder	2
Lakeside	3
Picnicter	1

OneNote makes it simple to work with others on great ideas. Invite your friends, family, and coworkers to collaborate with you in real-time. Or share a notebook to keep track of teamwork, home projects, or memories. When everything is ready, email your creative collaborations at the click of a button. It helps get everyone on the same page.

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Mail - Luther Barnum - Outlook

Tuesday, September 6, 2016 1:57 PM

"RSV Server Migration List Sep 6-8"

Clipped from: <https://outlook.office.com/owa/?realm=jabil.com&exsvurl=1&ll-cc=1033&modurl=0&path=/mail/search>

CORRDCSQLDEV02	DEV	Eric Kerin	Linux migration not supported by ASR
USSTPD0DEVMQ01	DEV	Erik Hendrickson	Linux migration not supported by ASR
USSTPD0DEVMQ02	DEV	Erik Hendrickson	Linux migration not supported by ASR
CORSQLMONDEV01	DEV	GDO	Linux migration not supported by ASR
USSTPD0NAGXISTG	STG	Jason Pelley	Linux migration not supported by ASR
USSTPD0SPLK41	DEV	Jason Pelley	Linux migration not supported by ASR
CORRDCDBDEV01	DEV	Justin Yap	Linux migration not supported by ASR
USSTPD0MODG71	PRD	Jason Pelley	Linux migration not supported by ASR
CORRDCAPPDEV03	DEV	?	Linux migration not supported by ASR
CORRDCAPPDEV08	DEV	Katya Pogrebnyaya	Linux migration not supported by ASR

spacecmd – spacewalk

Tuesday, October 11, 2016 2:35 PM

"Spacecmd Command"

Clipped from: <https://fedorahosted.org/spacewalk/wiki/spacecmd>

The screenshot shows a portion of a web browser window. At the top right, there are links for "OpenID Login" and "Fedora Account Sign In". Below that is a navigation bar with tabs for "Wiki" (which is selected) and "Timeline". The main content area has a header "wiki: spacecmd".

Description

spacecmd is a command-line interface to Satellite and Spacewalk servers.

Downloads

Stable RPMs are available in the [Spacewalk server latest stable repositories](#).

Stable Client RPMs: [Spacewalk Client latest stable repos](#).

RPMs built nightly from git are available in the [Spacewalk server nightly repositories](#).

The source is available in the [Spacewalk git repo at /spacecmd](#).

Install

To install spacecmd:

1. Install Spacewalk client repo. Example(EL 7):

```
rpm -Uvh http://yum.spacewalkproject.org/2.4-client/RHEL/7/x86_64/spacewalk-cl
```

2. Install spacecmd

```
yum install spacecmd
```

Bugs

Bugs should be reported to [Red Hat's Bugzilla](#) under the "spacecmd" component.

Support

- <https://www.redhat.com/mailman/listinfo/spacewalk-list>
- <https://www.redhat.com/mailman/listinfo/rhn-satellite-users>
- If you are interested in development of spacecmd <https://www.redhat.com/mailman/listinfo/spacecmd-devel>

Highlights

- view and manage nearly every aspect of Spacewalk
- tab completion
- can be passed single commands (useful for shell scripts)
- can be used as an interactive shell

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Last modified 8 months ago

ient-repo-2.4-3.el7.noarch.rpm

pacewalk-devel

- tab completion
 - can be passed single commands (useful for shell scripts)
 - can be used as an interactive shell
 - advanced searching of systems allows systems to be managed without having to create system groups
 - all functionality implemented via the Spacewalk API
-

Configure

Setting up spacecmd.

Credential File

Spacecmd can be configured with a credentials file so you are not prompted for a username/password every time.

1. Create a hidden spacecmd directory in your home. Lock down permissions.

```
mkdir ~/.spacecmd  
chmod 700 ~/.spacecmd
```

2. Create a config file in the directory and give proper permissions.

```
touch ~/.spacecmd/config  
chmod 600 ~/.spacecmd/config
```

3. Edit the config file and fill in the header, Spacewalk server fqdn, username, and password.

```
vim ~/.spacecmd/config  
  
[spacecmd]  
server=my-spacewalk-server.local  
username=usernamehere  
password=passwordhere
```

4. Verify connectivity without a username/password prompt.

```
spacecmd
```

Alias

A useful alias to create is one that will make spacecmd quiet. Quiet mode will NOT print the connecting way when parsing system lists.

Add the following to your `~/.bashrc`

```
alias spacecmd='spacecmd -q'
```

Spacecmd Modes

Spacecmd has two modes; interactive and single command.

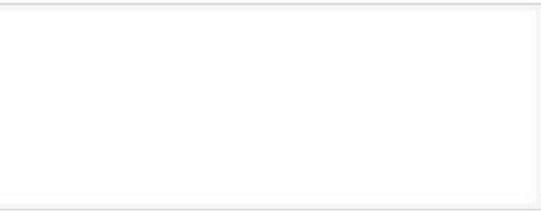
- Enter interactive mode

```
spacecmd
```

- Execute a single command

roups

ach time. This allows for easier scripting.



to server status messages, which get in the



```
spacecmd
```

- Execute a single command

```
spacecmd <COMMAND>
```

Getting Help

To view command help/hints:

- While already in Interactive Mode

```
help <topic>
```

- Single Command Mode

```
spacecmd help <topic>
```

Spacecmd Example Commands

Some examples of using spacecmd.

Cache

A local cache is created to improve performance. This can leave you with outdated query information at

To clear the local spacecmd cache:

```
spacecmd clear_caches
```

Group Commands

List system groups

```
spacecmd group_list
```

List systems in a group

```
spacecmd group_listsystems <GROUP>
```

Example Loop; Update systems in the "prod" group

```
for NODE in $(spacecmd group_listsystems prod); do echo "=>$NODE"; ssh -qt ${NODE}
```

Add systems to a group (system names space separated)

```
spacecmd group_addsystems <GROUP> <SYSTEMS>
```

Remove systems from a group

```
spacecmd group_removesystems <GROUP> <SYSTEMS>
```

: some point.

```
} "sudo yum -y update"; done
```

Remove systems from a group

```
spacecmd group_removesystems <GROUP> <SYSTEMS>
```

System Commands

List all systems

```
spacecmd system_list
```

View system details

```
spacecmd> system_details www01.example.com
Name:          www01.example.com
System ID:     1000010001
Locked:        False
Registered:    20100311 19:31:36
Last Checkin:  20100621 18:31:53
OSA Status:    online

Hostname:      www01.example.com
IP Address:   192.168.1.80
Kernel:        2.6.18-164.el5

Software Channels:
  custom-rhel-i386-server-5
    |-- custom-extras-i386-rhel5
    |-- clone-rhn-tools-rhel-i386-server-5

Configuration Channels:
  sudoers
  base
  base-rhel5

Entitlements:
  Management
  Monitoring
  Provisioning

System Groups:
  all_linux_systems
  all_linux_VMs
  rhel5-i386
```

Delete system from Spacewalk

```
spacecmd system_delete <SYSTEMS>
```

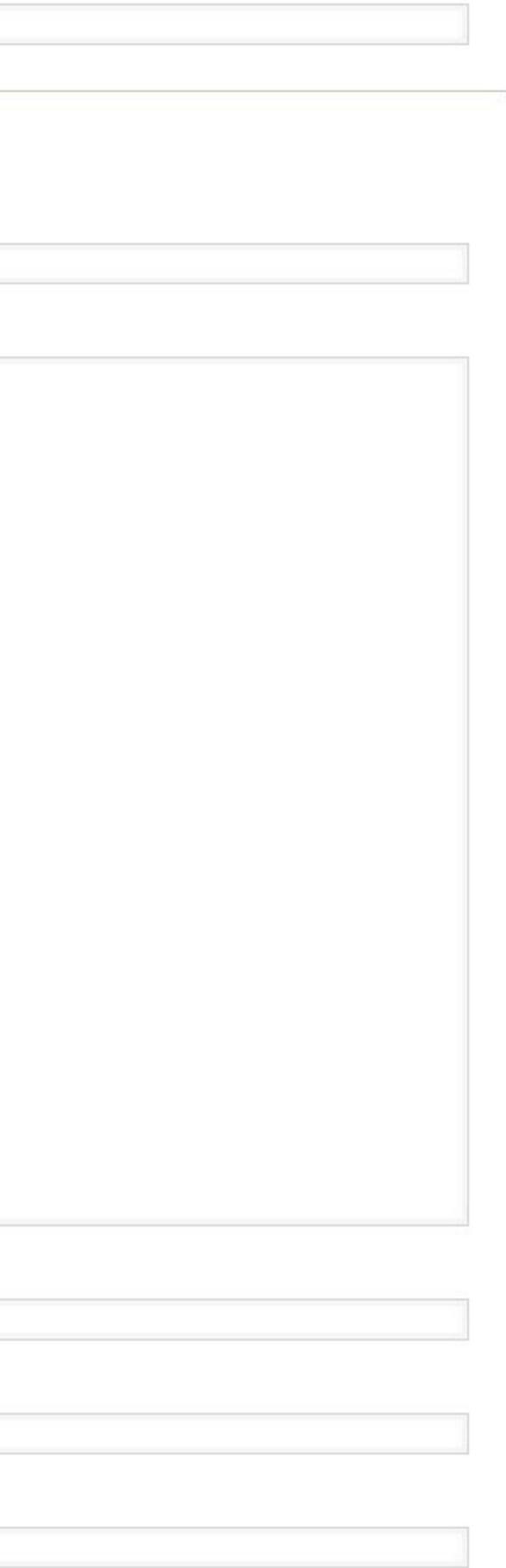
List a system's base channel

```
spacecmd system_listbasechannel <SYSTEM>
```

List a system's child channels

```
spacecmd system_listchildchannels <SYSTEM>
```

Set an entire group's base channel



```
spacecmd system_listchildchannels <SYSTEM>
```

Set an entire group's base channel

```
spacecmd -y system_setbasechannel group:<GROUP-NAME> <BASE-CHANNEL-NAME>
```

List a system's installed packages, grep for a specific one

```
spacecmd system_listinstalledpackages <SYSTEM> | grep glibc
```

Install Packages and Errata

Add and remove packages from the commandline

```
[user@sat]$ spacecmd -y system_installpackage www* mod_python
Scheduled 6 system(s)
```

```
[user@sat]$ spacecmd -y system_removepackage wiki02 mod_perl
Scheduled 1 system(s)
```

Apply errata from the command line

```
[user@sat]$ spacecmd -y errata_apply RHSA-2010:0423
Scheduled 42 system(s)
```

```
[user@sat]$ spacecmd -y system_applyerrata group:web_servers RHSA-2010:0040
Scheduled 16 system(s)
```

Channel Freezing

Some organizations have the requirement that the same updates that get applied in Development, must environment.

In order to accomplish this, software channels can be cloned, essentially "freezing" them and preventing packages.

Clone an entire software channel tree:

```
spacecmd softwarechannel_clonetree <base-channel-id> --prefix "prefix-name-here" --
```

Example: Clone the CentOS 6 tree "centos6_x86-64_base" and give it a date it was cloned prefix. This w

```
spacecmd softwarechannel_clonetree centos6_x86-64_base --prefix "20160111_" --gpg-c
```

- **Note:** This copies metadata of the channel and does NOT duplicate repo packages; so this does n

Systems then can have their subscribed software channels changed to this "frozen channel" until the up Once updated through production, subscribe systems back to the original channel or the next frozen ch removed once no more systems are subscribed.

Reporting



go through a Test and then Production

the cloned channel from receiving any new

gpg-copy

will copy gpg data and errata data.

copy

not take up much disk space.

update cycle through production is complete.
channel. The old cloned channel can then be

Reporting

Systems not in any group

```
spacecmd report_ungroupedsystems
```

Systems not checking in and their last check in time

```
spacecmd report_inactivesystems
```

Entitlements

```
[root@sat]# spacecmd report_entitlements | grep -e monitoring -e provisioning
monitoring_entitled: 314/397
provisioning_entitled: 322/397
```

Errata Reports

```
spacecmd> system_listerrata ldap03
System: ldap03

Security Errata:
RHSA-2010:0458 Moderate: perl security update 6/7/10
RHSA-2010:0449 Moderate: rhn-client-tools security update 6/1/10
RHSA-2010:0423 Important: krb5 security update 5/18/10

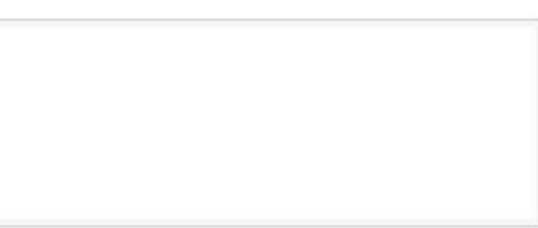
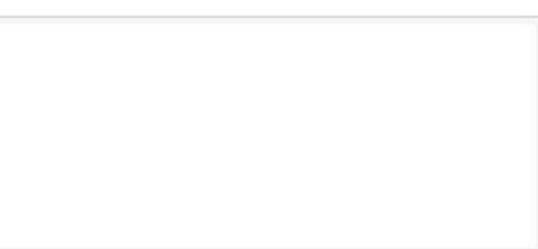
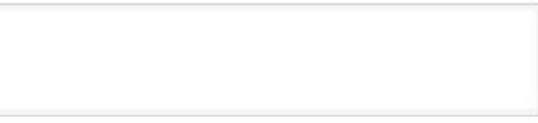
spacecmd> report_errata
# Systems      Errata
-----      -----
CLA-2010:0474      88
CLA-2010:0475      6
CLA-2010:0488      183
CLA-2010:0490      273
CLA-2010:0500      4
CLA-2010:0501      5
RHBA-2010:0402      1
RHSA-2010:0474      2
RHSA-2010:0488      1
RHSA-2010:0490      5
```

Out of Date Systems

```
spacecmd> report_outofdatesystems
System      Packages
-----      -----
monkey      310
shark       63
hedgehog    39
pomeranian  4
```

IP Addresses

```
spacecmd> report_ipaddresses
System  Hostname          IP
-----  -----          --
dns01   dns01.dmz.example.com  192.168.254.53
www01   www01.dmz.example.com  192.168.254.80
ztest   ztest.test.example.com 192.168.42.111
```



```
dns01      dns01.dmz.example.com    192.168.207.50
www01      www01.dmz.example.com    192.168.254.80
ztest       ztest.test.example.com  192.168.42.111
```

Kernel Versions

```
spacecmd> report_kernels
System      Kernel
-----
system01    2.6.9-89.0.25.ELsmp
system02    2.6.9-89.0.3.ELsmp
system03    2.6.9-89.0.26.ELsmp
```

System Set Manager

Working with multiple systems via system set manager on the cli.

Make temporary groups on-the-fly

```
spacecmd> ssm_add search:driver:bnx2
Systems Selected: 111

spacecmd> ssm_add search:device:vmware
Systems Selected: 285

spacecmd> ssm_add search:hostname:external.example.com
Systems Selected: 16
```

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<http://trac.edgewall.org/>



rEFIt - Documentation - Installing rEFIt

Thursday, October 20, 2016 8:34 PM

Clipped from: http://refit.sourceforge.net/doc/c1s1_install.html



rEFIt

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Trail: [Home](#) > [Documentation](#) >

Installing rEFIt

Burning a CD

If you just want to try out rEFIt without affecting your computer, you can burn rEFIt (to a CD-RW) and boot from that. The distributed .dmg and .cdr disk images are ready to be burned; see the [burning instructions](#) for details.

Automatic Installation with the Installer Package

Both disk image distributions (.dmg and .cdr) also contain the new installer package. It is located in the “Install” folder of the disk image. Copy it to your Mac OS X installation volume and make sure it is active. This is now the recommended way to install and use rEFIt.

The steps to install rEFIt this way are as follows:

1. Download and mount the [rEFIt-0.14.dmg](#) disk image.
2. Double-click on the “rEFIt.mpkg” package.
3. Follow the instructions and select your Mac OS X installation volume as the destination for the install.

If everything went well, you’ll see the rEFIt boot menu on the next restart.

Manual Installation on the Mac OS X volume

If you don’t want to use the installer package, you can do a manual install instead. This section describes how to do a manual install to your Mac OS X installation volume, which requires no additional hardware or disks. It is possible to install rEFIt elsewhere; see the following sections for that.

Here are the steps for a manual install:

1. Download the “Mac disk image” or any of the other two binary distributions from the [Downloads](#) page. Double-click to mount or unpack them.
2. Copy the “efi” folder from the rEFIt distribution to the root level of your Mac OS X installation volume.
3. Open Terminal and enter the following commands:

```
cd /efi/refit  
.enable.sh
```

When prompted, enter the password for your user account.

If everything went well, you’ll see the rEFIt boot menu on the next restart.

Note: If you get a message saying “No such file or directory” in the last step, then you probably didn’t copy the “efi” folder in the right place in step 2.

This manual installation method has a drawback that you should be aware of. Since you have to use the [rEFItBlesser](#), Mac OS X updates will disable rEFIt, and the rEFIt menu will show up even if you’re in Safe Sleep mode.

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when waking

This manual installation method has a drawback that you should be aware of. Since you run rEFItBlesser, Mac OS X updates will disable rEFIt, and the rEFIt menu will show up even from Safe Sleep.

Installing on a separate volume or external disk

If you're uncomfortable with having rEFIt on your Mac OS X volume, you can install it on another volume, as long as it is formatted in the HFS+ ("Mac OS Extended") format. For example, you could install rEFIt on a USB flash drive.

The installation procedure is basically the same as explained above — copy the "efi" folder to the root of the volume, and run "enable.sh" inside the "efi/refit" directory. The path in Terminal would be something like "/Volumes/MyStick/efi/refit/enable.sh", for example "/Volumes/MyStick/efi/refit" if the volume is named "MyStick".

If you want, you can use the provided "rEFIt.icns" icon as a volume icon.

Installing on the EFI System Partition

It is also possible to install rEFIt on the hidden "EFI System Partition" on your internal drive. This is recommended for advanced users only, and will not be detailed here. You will need to use the --mount and --file options. Consult the man page for `bless` for more information.

Next: [Updating rEFIt](#)

Up: [Contents](#)

Last changed by chrisp on Thu, Jun 14 2007

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Amazon.com: nginx

Tuesday, November 8, 2016 1:36 PM

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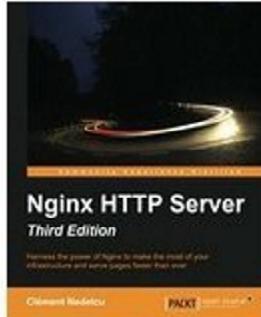


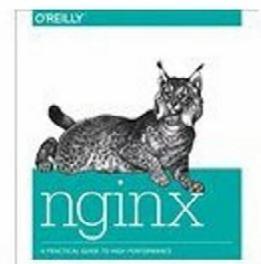
Book Language

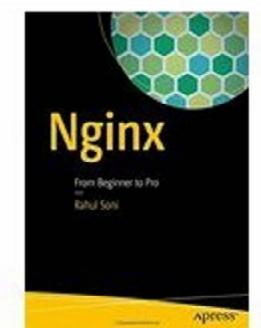
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015

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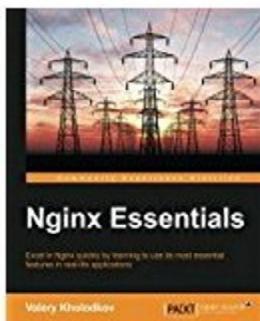
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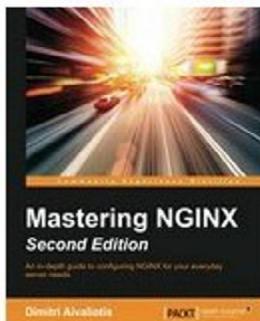
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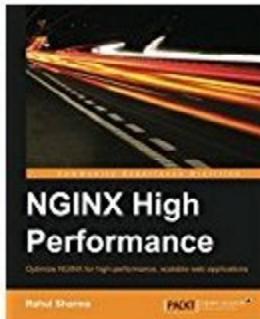
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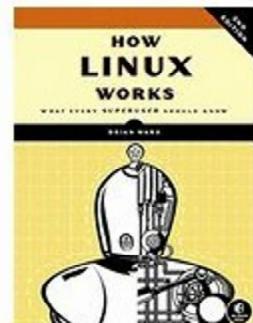
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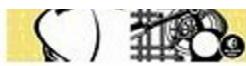


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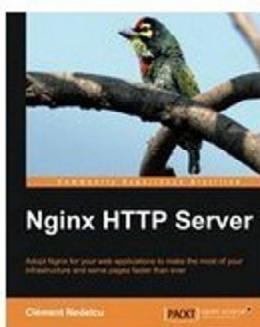
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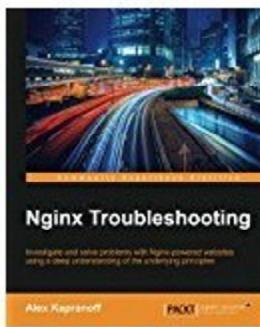
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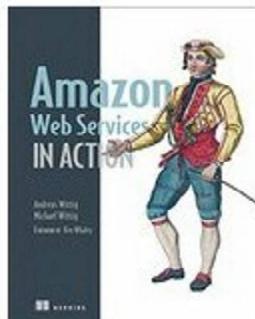
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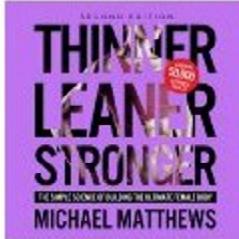
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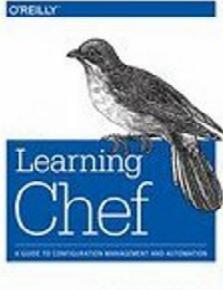
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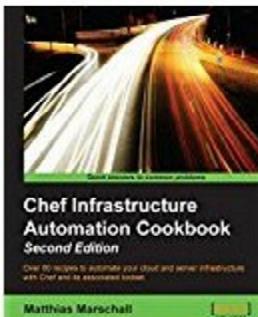
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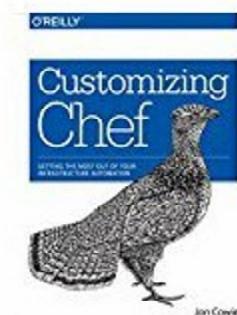
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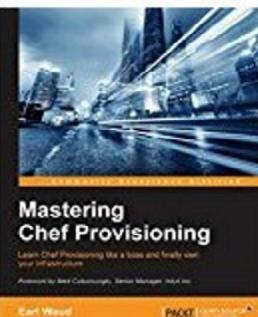
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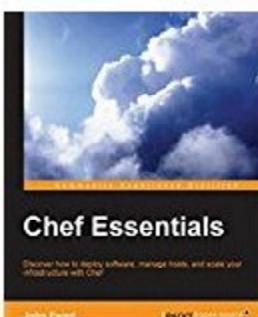
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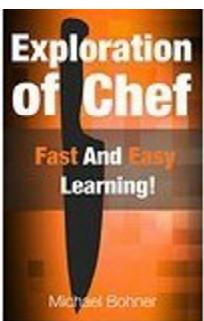
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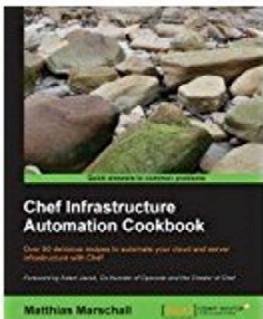
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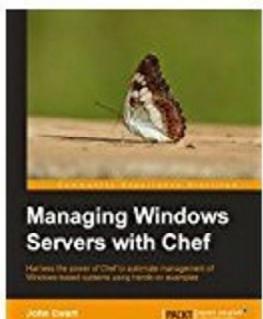
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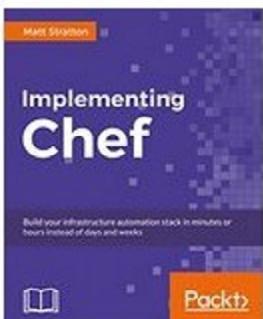
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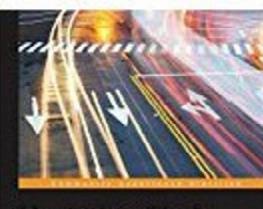
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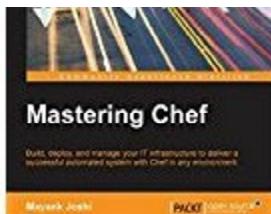
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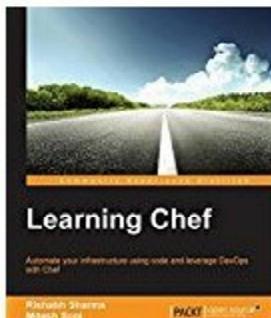
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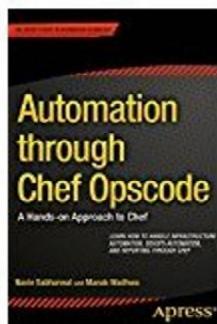
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How to reload default Mac OSX routing table without rebooting



Greetings,



33 I'm using `vpnc` for a VPN client. I'm also doing some tricky things with `route` to make sure I can still access my local network, etc. etc. (the particulars here are not very important).



Sometimes I get the routing table so jacked up I get `ping: sendto: Network is unreachable` for urls that should otherwise resolve.

20

Currently, if I restart Mac OS X then everything is back to normal. What I'd like to do is reset the routing tables to the "default" (e.g. what it is set to at boot) *without* a whole system reboot.

I think that step 1 is `route flush` (to remove all routes). And step 2 needs to reload all of the default routes.

Any thoughts on how to do this? (e.g. what is step 2?)

EDIT Also, I'm noticing another symptom is `traceroute` also fails on the address in question. For instance:

```
traceroute the.good.dns.name
```

```
traceroute: bind: Can't assign requested address
```

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```
traceroute the.good.dns.name  
traceroute: bind: Can't assign requested address
```

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asked Oct 26 '09 at 15:43



Nate Murray

293 ● 1 ● 3 ● 6

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37



You need to flush the routes . Use **route -n flush** several times . Afterwards add your routes with route add.

– Nate Murray May 13 '11 at 16:44 ↗

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answered Nov 2 '09 at 9:51



cawer

597 ● 3 ● 4

1 I've changed this to the accepted answer. It works! I did **route -n flush** several times, then I just restarted my networking via the System preferences. It only took me a year to come back and figure this out :)

– Nate Murray May 13 '11 at 16:44 ↗

This solved a similar problem for me with the Sonicwall's Aventail Connect VPN client which I find particularly prone to "Can't assign requested address" failures, especially when switching wireless networks. Now I have a way to resolve that doesn't avoid a power cycle. Thanks! – Alan Donnelly Oct 18 '12 at 18:56 ↗

add a comment



5



First you need a route for your network interface. If the VPN is disconnected then just take your network interface down and then bring it back up with ifconfig. Then use the route command to build in your default gw. So something like:

```
ifconfig en0 down  
ifconfig en0 up  
route add <ip address> default
```

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answered Oct 26 '09 at 20:34



Jordan Eunson

947 ● 7 ● 14

1

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1 Yes, but how does Mac OS X know what the default route's ip address is? What I'd really like to see is how Mac OS X does the boot process and do the exact same thing. – [Nate Murray](#) Oct 26 '09 at 22:10

1 ...? It gets it from DHCP... – [Jordan Eunson](#) Oct 26 '09 at 22:21

[add a comment](#)

I was running into this issue while using a home OpenVPN server and connecting to it using the Tunnelblick application on Mac.

5

What was happening on my end is that a route with my home IP as the destination and an incorrect gateway was getting leftover after disconnecting from the VPN. Deleting this route solved the issue, simply

```
$ sudo route -n delete the.good.dns.name
```

Example: I am at school and after a fresh computer boot, I connect to a wireless network. I connect my home OpenVPN server with Tunnelblick.

```
$ netstat -nr
Destination           Gateway
...
[home-ip]/32          [school-default-gateway-1] ...
...
```

I disconnect from the VPN server. I change wireless networks. This changes my default gateway.

```
$ netstat -nr
Destination           Gateway
...
[home-ip]/32          [school-default-gateway-1] ...
...
$ ping [home-ip]
PING [home-ip]: 56 data bytes
ping: sendto: Network is unreachable
ping: sendto: Network is unreachable
Request timeout for icmp_seq 0
...
```

I can't under any circumstances connect to my home network (VPN, ping, anything) after this happens. If I then just delete the route:

```
$ sudo route -n delete [home-ip]
delete net [home-ip]
$ ping [home-ip]
PING [home-ip]: 56 data bytes
64 bytes from [home-ip]: icmp_seq=1 ttl=56 time=13.111 ms
```

It works fine.

There might be an issue with how the OpenVPN server/client is configured which is leaving this (and

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IT WORKS fine.

There might be an issue with how the OpenVPN server/client is configured which is leaving this (and I'd be interested in finding out what that is), but I installed a Tunnelblick post-disconnect script that automates this route deletion.

[share](#) [improve this answer](#)

answered Apr 17 '15 at 17:46



Sean

51 ● 1 ● 1

I'm actually having a similar issue here. Really annoying. – [Tom Busby](#) Jun 17 '15 at 14:16

I'm running into the same problem, even with the example ovpn script. The only solution I've found is the same as OP, in deleting the route in a post-disconnect script :/ – [jklp](#) Oct 5 '15 at 23:11 ↗

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I was running into the same issue as @Sean (I'm also running OS X), in that when I switched between home and work networks the default route was not getting deleted.

1

For completeness, when I connect to my VPN at home and running the following command, it'd show the default gateway as below

```
$ netstat -nr
Destination           Gateway
...
[home-ip]/32          [work-default-gateway-1]
```

And when I disconnected, the [home-ip] gateway would still be there. When I'd connect to my work network I couldn't connect to the internet at all, and run into the same issue as OP

```
$ traceroute the.good.dns.name
$ traceroute: bind: Can't assign requested address
```

I'd then have to manually delete the route with

```
$ sudo route -n delete [home-ip]
```

Initially I put the "route -n delete" in a `post-disconnect.sh` script, but that was a little messy so instead I found this link

<https://code.google.com/p/tunnelblick/issues/detail?id=177>

Apparently the reason is due to setting the following in my `.ovpn` file

```
user nobody
group nogroup
```

Which means the route is set up as root, but when the connection is taken down the user is no longer root, so the route can't be deleted.

which means the route is set up as root, but when the connection is taken down the user is no longer root, so the route can't be deleted.

Commenting these 2 lines in my `.ovpn` file fixed the problem, without having to use a `post-disconnect.sh`.

share improve this answer

answered Oct 5 '15 at 23:29



jklp
133 ■ 6

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Go(lang) Unit Testing for Absolute Beginners

Thursday, January 5, 2017 8:37 AM

"Test Driven Development Golang"

Clipped from: <https://jonathanmh.com/golang-unit-testing-for-absolute-beginners/>

```
1 package hello
2
3 import "testing"
4
5 func TestHello(t *testing.T){
6     expected := "Hello Go!"
7     actual := hello("Perl")
8     if actual != expected {
9         t.Errorf("Test failed, expected: '%s', g
10    }
11 }
12 }
```

Unit testing with Go-lang is very simple and the testing library is actually included by default. For test driven development or just for covering the functionality of your code afterwards, unit tests are pretty essential.

This article is about the smallest possible effort we can make to get started with testing. No fancy algorithms or too language specific things, just the bare minimum, so we understand what's going on and can extend from there on.

Go is a language I almost have had nothing to do with, apart from my little teaching-related program about [file system permissions in Go](#).

Setting up your First Golang Unit Test

Let's say we are supposed to have a function. It should output a certain text. Let's pretend the unlikely case that the output should be: Hello Go!.

To get started let's create a directory and create the following files:

- hello.go

got: '%s'", expected, actual)|

- hello_test.go

Now we need to specify the test case for our go function:

Content of hello_test.go

```
package hello import "testing" func TestHello(t *testing.T){ expected :=  
"Hello Go!" actual := hello() if actual != expected { t.Error("Test failed") } }
```

Firstly we name the Go package ([read more about go packages](#)) and import the **testing** package.

After that we define a function that is called TestHello, which has the testing package included. For each test, we would define a separate function, but since we only have one, let's ignore that for now.

Inside the function we're using the variables **expected** and **actual**. The premise of a test is, that we know what a function we're going to write is about to do. Like when we have a keyboard and an ENTER key on it, we expect that to start a new line in a text document. We'll set the string of the expected value to "Hello Go!".

In case the actual value, that will later be returned from our function, does **not equal** what we expect, we will display: "Test failed".

Let's go ahead and run go test in that directory.

The output should be something like:

```
hello-test $ go test can't load package: package ..: hello.go:1:1: expected  
'package', found 'EOF'
```

It doesn't say our test failed, but actually just that it couldn't process the hello.go file. Fine, let's go ahead and write a function that returns the desired value:

```
package hello func hello() string { return "Hello Go" }
```

First of all, we make sure that the function is part of the same package and write a simple function that returns a string. Let's run go test again.

Now we should be getting some more output:

```
hello-test $ go test --- FAIL: TestHello (0.00 seconds) hello_test.go:9: Test  
failed FAIL exit status 1 FAIL _/home/geronimo/projects/go/hello-test  
0.001s
```

SUCCESS! Technically, failure, but you now have successfully run your first test in Go! The only problem is, that our error message is really bad. We would have to open up the hello_test.go file to see what might have failed.

Let's modify that and make that a lot more informative by changing our hello_test.go files contents to:


```
package hello import "testing"
func TestHello(t *testing.T) {
    expected := "Hello Go!"
    actual := hello()
    if actual != expected {
        t.Errorf("Test failed, expected: '%s', got: '%s'", expected, actual)
    }
}
```

Now it should output the expected and the actual value:

```
hello-test $ go test --- FAIL: TestHello (0.00 seconds) hello_test.go:9: Test failed, expected: 'Hello Go!', got: 'Hello Go' FAIL exit status 1 FAIL
./home/geronimo/projects/go/hello-test 0.001s
```

That is much better! We can see what the test, according to our expectations should show and what the function passes back to it with the `t.Errorf` function, that outputs a formatted string with the values included. Great! Now we can fix the missing exclamation mark in `hello.go`.

After fixing our bug, we should get the following output:

```
hello-test $ go test PASS ok ./home/geronimo/projects/go/hello-test 0.001s
```

Now you know how to unit test in Go(lang) and use them to your advantage!

Testing a Function in Go with Arguments

Typically you though would want to test something that takes an argument and returns something else.

If we now want to make our `hello()` function a bit more universal to, let's say, include Perl programmers, we can edit the files as in the following example to unit test functions with parameters:

content of `hello_test.go`:

```
package hello import "testing"
func TestHello(t *testing.T) {
    expected := "Hello Go!"
    actual := hello("Perl")
    if actual != expected {
        t.Errorf("Test failed, expected: '%s', got: '%s'", expected, actual)
    }
}
```

content of `hello.go`:

```
package hello func hello(input string) string {
    output := "Hello ";
    output += input;
    output += "!";
    return output
}
```

This will enable us to have some function arguments and thereby dynamic input, that we can model our tests around. Now we could also create an array of different words or characters to pass to our function and they should all come back prefixed with "Hello " and ending with "!".

Summary

So this is the simplest example in the world, for getting started writing tests for your Go project. I was annoyed with some other posts existing around this topic, because they are not very intuitive to newcomers to the language,

but touch many other topics, not just the first baby step basics. A tutorial I can recommend is [the piglatin one by Mat Ryer!](#)

I hope you enjoyed this and let me know if I should improve on this post. As usual you can find me on various social networks and I'd love your feedback!

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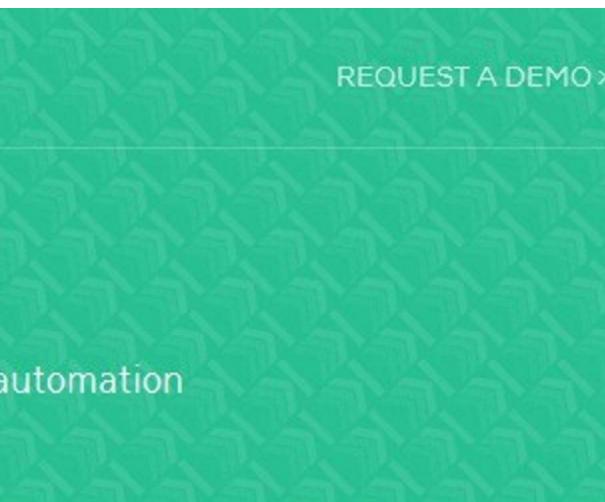
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Golang

Go offers a simple way to build command-line tools using only standard library types. Let's put this together a step-by-step example to help walk you through the process.

To write a Go program, you'll need [Go setup up on your computer](#). If you're new to Go and want to spend a little extra time learning, you can take the [Go tour](#) to get started!

In this example, we'll create a command-line tool called `stringparse`, to count the characters, words, or lines in a string. Here's our intended usage to start (we'll add some subcommands and more flags later):

```
-metric string
    Metric {chars|words|lines}. (default "chars")
-text string
    Text to parse. (required)
-unique
    Measure unique values of a metric.
```

Setting Up the Initial File

Create the main file for our tool `stringparse.go`.

```
package main

func main() {
    // Execution of CLI tool behavior goes here
}
```

That's it!

To run and test your app as you're building it, run the following:

```
$ go build stringparse.go
$ ./stringparse
```

ibraries. So I put

re not familiar

[Go tour](#) to get

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Parsing Arguments

Arguments, Options, Flags -- What's the difference?

These terms are often used interchangeably. In general, they refer to the following a CLI command. Here are the traditional definitions:

- *Arguments* are all strings that follow a CLI command.
- *Options* are arguments with dashes (single or double) that are followed by user input and modify the operation of the command.
- *Flags* are boolean options that do not take user input.

Go does not stick to these definitions. In the context of its flag package, all strings beginning with dashes (single or double) are considered flags, and all strings after dashes that are not user input are considered arguments. All strings after the first argument are considered arguments.

Flag Package

Go's [flag package](#) offers a standard library for parsing command line input.

Flags can be defined using `flag.String()`, `Bool()`, `Int()`, etc.

```
examplePtr := flag.String("example", "defaultValue", " Help")
```

`examplePtr` will reference the value for either `-example` or `--example`. The value at `*examplePtr` is `"defaultValue"`. Calling `flag.Parse()` will read command line input and write the value following `-example` or `--example` to `*examplePtr`.

Flag syntax:

```
-example  
-example=text
```

list of strings

ved by user

ll strings
ngs without
the first

ut.

```
lp text.")
```

le. The initial
will parse the
nple to

```
-example  
-example=text  
-example text // Non-boolean flags only  
- and -- may be used for flags
```

Let's add some flags.

```
package main

import (
    "flag"
    "fmt"
)

func main() {
    textPtr := flag.String("text", "", "Text to parse.")
    metricPtr := flag.String("metric", "chars", "Metric {")
    uniquePtr := flag.Bool("unique", false, "Measure unique")
    flag.Parse()

    fmt.Printf("textPtr: %s, metricPtr: %s, uniquePtr: %t\n")
}
```

Boolean flags: A boolean flag will parse to a value of true if the flag has been set by the user. If no value was provided, the flag will have a default value of false. Using a default value of false will allow you to determine if the flag was set. A boolean flag may be set with user input using an "=", but it is not required (see package docs for details).

There are a few more methods for creating flags using the flag package mentioned earlier. If you're interested, they're described in the package docs.

Arguments: After parsing, the arguments following the flags are available through `flag.Args()` or individually as `flag.Arg(i)`. The arguments are indexed through `flag.NArg() - 1`.

```
chars|words|line  
ue values of a  
\n", *textPtr,
```



een set and no
etermine if the
t's not required

not mentioned

e as the slice
exed from 0

through `flag.NArg() - 1`.

Error Handling

Go automatically checks that user input is provided for all flags that require it. It also verifies that all flags provided are known. If either of these conditions are violated, an appropriate usage message will be automatically generated using the help text from each flag.

`flag.PrintDefaults()` can be used to print the usage message explicitly if you want to do any error handling yourself.

Determine if a Flag Was Set

To check if a flag was set, you can compare the value at `*flagPtr` to the value after parsing. In this context, you may want to choose the zero value as the flag's default value. This avoids the possibility of a user providing a value as input.

However, this method becomes tricky when the flag's type is `Int` or `Float`, because the default value is 0, and that may be valid user input. Consult the docs for values accepted by `Int` and `Float`. You'll have to get creative.

Make a Flag Required

To make an argument required, determine if the flag was set and then handle accordingly. If the required flag was not set, the user should be notified and execution should be discontinued.

Let's update the `text` flag to be required.

```
package main

import (
    "flag"
    "fmt"
    "os"
)

func main() {
```

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```
func main() {
    textPtr := flag.String("text", "", "Text to parse. (Re-
    metricPtr := flag.String("metric", "chars", "Metric {c
    uniquePtr := flag.Bool("unique", false, "Measure uniqu
    flag.Parse()

    if *textPtr == "" {
        flag.PrintDefaults()
        os.Exit(1)
    }

    fmt.Printf("textPtr: %s, metricPtr: %s, uniquePtr: %t\n",
}
```

Choice Flags

A choice flag must have user input from within a certain set. To implement this, you will need to create a set of values, and check that the user input is in the set. If input is not in the set, notify the user accordingly and exit.

Sub Commands

Subcommands can be useful when your app needs to perform multiple functions. Each function can have its own flags and arguments. A common example of this is with subcommands is git:

```
git commit -m "message"
git push
```

Subcommands are implemented by creating a `flag.FlagSet`. The `FlagSet` contains the subcommand name, error handling behavior, and a set of flags associated with the subcommand. You can add flags to your `FlagSet` by creating them the same way you would on your main command. The flag package contains constants for different error handling behaviors which can be found in the package docs.

Let's add two new subcommands, `list` and `count`. For the count subcommand, we'll use the `Bool` type to indicate whether or not to count unique characters.

```
equired)")  
chars|words|lin  
ue values of a  
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```



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Let's add two new subcommands, `list` and `count`. For the count subcommand, add a new metric choice called `substring`, and a new `--substring` flag. Implement choice flag functionality for the `--metric` flag as well. Please leave comments for an explanation of all implementation details.

```
package main

import (
    "flag"
    "fmt"
    "os"
)

func main() {
    // Subcommands
    countCommand := flag.NewFlagSet("count", flag.ExitOnError)
    listCommand := flag.NewFlagSet("list", flag.ExitOnError)

    // Count subcommand flag pointers
    // Adding a new choice for --metric of 'substring' and 'unique'
    countTextPtr := countCommand.String("text", "", "Text to search")
    countMetricPtr := countCommand.String("metric", "chars", "Metric to use for counting")
    countSubstringPtr := countCommand.String("substring", "", "Substring to search for")
    countUniquePtr := countCommand.Bool("unique", false, "Count unique substrings")

    // List subcommand flag pointers
    listTextPtr := listCommand.String("text", "", "Text to search")
    listMetricPtr := listCommand.String("metric", "chars", "Metric to use for listing")
    listUniquePtr := listCommand.Bool("unique", false, "List unique substrings")

    // Verify that a subcommand has been provided
    // os.Args[0] is the main command
    // os.Args[1] will be the subcommand
    if len(os.Args) < 2 {
        fmt.Println("list or count subcommand is required")
        os.Exit(1)
    }
}
```

command, let's
flag. We'll
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```
rror)
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to parse. (Re
s", "Metric {ch
", "The subst
'Measure unique

o parse. (Requi
, "Metric <char
measure unique v

')
)
```

```
        os.Exit(1)
    }

    // Switch on the subcommand
    // Parse the flags for appropriate FlagSet
    // FlagSet.Parse() requires a set of arguments to parse
    // os.Args[2:] will be all arguments starting after the subcommand
    switch os.Args[1] {
        case "list":
            listCommand.Parse(os.Args[2:])
        case "count":
            countCommand.Parse(os.Args[2:])
        default:
            flag.PrintDefaults()
            os.Exit(1)
    }

    // Check which subcommand was parsed using the FlagSet
    // FlagSet.Parse() will evaluate to false if no flags were present
    if listCommand.Parsed() {
        // Required Flags
        if *listTextPtr == "" {
            listCommand.PrintDefaults()
            os.Exit(1)
        }
        // Choice flag
        metricChoices := map[string]bool{"chars": true, "width": true}
        if _, validChoice := metricChoices[*listMetricPtr]; !validChoice {
            listCommand.PrintDefaults()
            os.Exit(1)
        }
        // Print
        fmt.Printf("textPtr: %s, metricPtr: %s, uniquePtr: %s\n", *listTextPtr, *listMetricPtr, *listUniquePtr)
    }

    if countCommand.Parsed() {
        // Required Flags
        if *countTextPtr == "" {
            countCommand.PrintDefaults()
            os.Exit(1)
        }
    }
}
```

```
use as input
the subcommand a

t.Parsed() function
were parsed (i.e.,

words": true,
]; !validChoice

: %t\n", *list)
```

```
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    // If the metric flag is substring, the substring
    if *countMetricPtr == "substring" && *countSubstr
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    //If the metric flag is not substring, the substrin
    if *countMetricPtr != "substring" && *countSubstr
        fmt.Println("--substring may only be used with")
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    //Choice flag
    metricChoices := map[string]bool{"chars": true, "v
    if _, validChoice := metricChoices[*listMetricPtr]
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    //Print
    fmt.Printf("textPtr: %s, metricPtr: %s, substring%
    }
}
```

Defining Your Own Flag Types (and List Items)

Go allows you to define your own flag types! All you need to do is create a type that implements the `flag.Value` interface.

```
type Value interface {
    String() string
    Set(string) error
}
```

`String()` should convert your type to a string. `Set(s)` will be called during parsing.

```
flag is required  
ingPtr == "" {  
  
    ing flag must not be empty  
    ingPtr != "" {  
        n --metric=subs  
  
        words": true,  
    }; !validChoice  
  
    ^ptr: %v, unique
```

a type which

`String()` should convert your type to a string. `Set()` will be called during `flag.Parse()` to set the value of your flag from its string input. In this example, we create a flag type to represent a comma separated list of strings, and add a new subcommand to the `count` command, `--substringList`. A custom flag type isn't required for this example, but it is a good example. Read inline comments for an explanation.

```
package main

import (
    "flag"
    "fmt"
    "os"
    "strings"
)

// Create a new type for a list of Strings
type stringList []string

// Implement the flag.Value interface
func (s *stringList) String() string {
    return fmt.Sprintf("%v", *s)
}

func (s *stringList) Set(value string) error {
    *s = strings.Split(value, ",")
    return nil
}

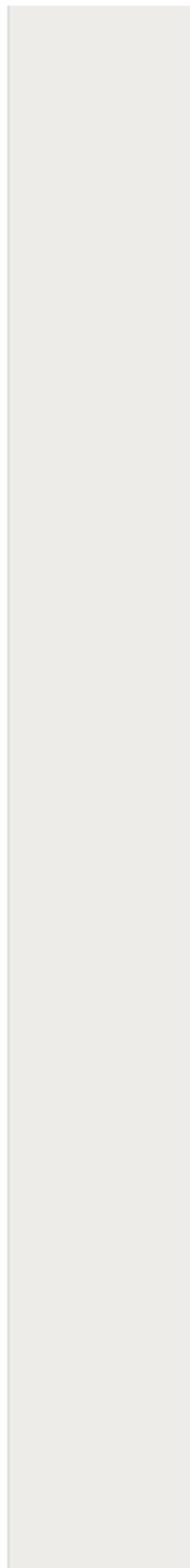
func main() {
    // Subcommands
    countCommand := flag.NewFlagSet("count", flag.ExitOnError)
    listCommand := flag.NewFlagSet("list", flag.ExitOnError)

    // Count subcommand flag pointers
    // Adding a new choice for --metric of 'substring' and 'text'
    countTextPtr := countCommand.String("text", "", "Text")
```

ring
example, we'll
a new flag to
required here,

rror)
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d a new --subst
to parse. (Re



```
// Count subcommand flag pointers
// Adding a new choice for --metric of 'substring' and
countTextPtr := countCommand.String("text", "", "Text")
countMetricPtr := countCommand.String("metric", "chars",
countSubstringPtr := countCommand.String("substring",
countUniquePtr := countCommand.Bool("unique", false, "Unique")

// Use flag.Var to create a flag of our new flagType
// Default value is the current value at countStringList
var countStringList stringList
countCommand.Var(&countStringList, "substringList", "A list of strings to count")

// List subcommand flag pointers
listTextPtr := listCommand.String("text", "", "Text to list")
listMetricPtr := listCommand.String("metric", "chars",
listUniquePtr := listCommand.Bool("unique", false, "Unique")

// Verify that a subcommand has been provided
// os.Arg[0] is the main command
// os.Arg[1] will be the subcommand
if len(os.Args) < 2 {
    fmt.Println("list or count subcommand is required")
    os.Exit(1)
}

// Switch on the subcommand
// Parse the flags for appropriate FlagSet
// FlagSet.Parse() requires a set of arguments to parse
// os.Args[2:] will be all arguments starting after the subcommand
switch os.Args[1] {
case "list":
    listCommand.Parse(os.Args[2:])
case "count":
    countCommand.Parse(os.Args[2:])
default:
    flag.PrintDefaults()
    os.Exit(1)
}

// Check which subcommand was Parsed using the FlagSet
// FlagSet.Parse() will evaluate to false if no flags were set
```

```
d a new --subst
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use as input
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t.Parsed() fun
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```

```
// Check which subcommand was Parsed using the FlagSet
// FlagSet.Parse() will evaluate to false if no flags
if listCommand.Parsed() {
    // Required Flags
    if *listTextPtr == "" {
        listCommand.PrintDefaults()
        os.Exit(1)
    }
    //Choice flag
    metricChoices := map[string]bool{"chars": true, "v...": true}
    if _, validChoice := metricChoices[*listMetricPtr]; !validChoice {
        listCommand.PrintDefaults()
        os.Exit(1)
    }
    // Print
    fmt.Printf("textPtr: %s, metricPtr: %s, uniquePtr: %s\n",
        *listTextPtr,
        *listMetricPtr,
        *listUniquePtr,
    )
}

if countCommand.Parsed() {
    // Required Flags
    if *countTextPtr == "" {
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    // If the metric flag is substring, the substring
    if *countMetricPtr == "substring" && (*countSubstrin...
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    //If the metric flag is not substring, the substrin...
    if *countMetricPtr != "substring" && (*countSubstrin...
        fmt.Println("--substring and --substringList m...")
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    //Choice flag
}
```

```
c.Parsed() function  
were parsed (i  
  
words": true,  
]; !validChoice  
  
: %t\n",  
  
or substringLi  
ngPtr == "" &&  
  
ing flag must r  
ringPtr != ""  
may only be used
```

```
    }
    //Choice flag
    metricChoices := map[string]bool{"chars": true, "v": false}
    if _, validChoice := metricChoices[*listMetricPtr]; !validChoice {
        countCommand.PrintDefaults()
        os.Exit(1)
    }
    //Print
    fmt.Printf("textPtr: %s, metricPtr: %s, substringPtr: %s, countTextPtr: %d, countMetricPtr: %d, countSubstringPtr: %d, countStringList: %s, countUniquePtr: %d\n",
        *textPtr,
        *metricPtr,
        *substringPtr,
        (*countTextPtr).String(),
        (*countMetricPtr).String(),
        (*countSubstringPtr).String(),
        (*countStringList).String(),
        (*countUniquePtr).String())
}
```

Help Text

It's important for your CLI tool to have a message directing users on how to use it. A common best practice to include a `--help` or `-h` flag with your command, which will print usage instructions.

Go will create this usage message for you, by combining the help text and flags. The message can be printed explicitly using `flag.PrintDefaults()`. Help, and man pages commonly use a small syntax to describe the valid command-line arguments:

- angle brackets for *required* parameters: `ping <hostname>`
- square brackets for *optional*/parameters: `mkdir [-p] <dirname>`
- ellipses for *repeated* items: `cp <source1> [source2...] <destination>`
- vertical bars for *choice* of items: `netstat {-t|-u}`

I haven't strictly followed this pattern in my example, but using it can make the use cases are.

```
words": true,  
]; !validChoice
```

```
ptr: %v, substr
```

to run it. It's good
print usage

fields of all your
cs(). Usage,
command form:

ake it clear what

Make It Runnable from the Command-Line

```
$ go build stringparse.go
```

This creates an executable file, `stringparse`. All we need to do now is copy it to a directory on our system path. The simplest way to do this is to copy to `/usr/local/bin`:

```
$ cp stringparse /usr/local/bin
```

Testing It Out

Now that we're finished it's time to run our CLI tool. Right now, `stringparse` takes two flags and print the data (below are some examples). Once you reach this point, implement the functionality needed using the data you've now parsed. Happy coding!

```
$ stringparse list --text "Hackers beware." --metric words
textPtr: Hackers beware., metricPtr: words, uniquePtr: true
$ stringparse count --text "She sells sea shells by the sea shore"
textPtr: She sells sea shells by the sea shore, metricPtr: chars
$ stringparse count --text "Komand Security"
textPtr: Komand Security, metricPtr: chars, substringPtr:
```

Conclusion

I hope you've enjoyed our example on building CLI tools with Go. We also covered some things we've learned from our tech stack, too:

- [Building SVG Maps with React](#)
- [Quick Security Wins in Golang](#)

copy this file to a
sr/local/bin.

] will parse the
you're free to
oding!

```
s --unique
ue
ea shore" --met
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```

write articles on

- Building SVG Maps with React
- Quick Security Wins in Golang
- Taking the Work Out of Bug Reports



About James Golin

James is a Software Engineer here at Komand. He is a graduate of and has worked as an engineer at IBM and Nanigans. James loves technical challenge and enjoys the creative aspects of software development. He continuously aims to sharpen his skills as a developer and is excited about the security space.



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Komand is the fastest way to automate your time-intensive security processes. Our security orchestration and automation platform gives your team the power to quickly automate and optimize security operations, with no need for code. Connect your tools, build workflows, and utilize human decisions to accelerate incident response and move security forward, faster.



The Komand Demo Webinar

February 22 at 2pm EST / [Save Your Spot ➔](#)

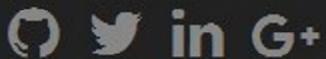
Brown University
is puzzling through a
development. He
ed to explore the

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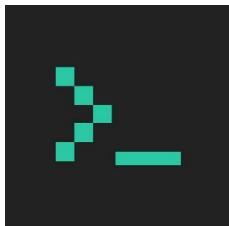


SIGN
UP



Building a Simple CLI Tool with Golang

Friday, January 13, 2017 8:14 PM



Building a Simple CLI Tool with Golang

<https://blog.komand.com/build-a-simple-cli-tool-with-golang>

Go offers a simple way to build command-line tools using only standard libraries. So we put together a step-by-step example to help walk you...

Patch Management Meeting

Monday, February 6, 2017 7:37 AM

Viewing Lily Odile's screen

IT Servers Infrastructure Patching Improvement Program Charter Draft - Microsoft Word

A milestone is an event that receives special attention. It is often put at the end of a stage to mark the completion of a work package or phase. In addition to signaling the completion of a key deliverable, a milestone may also signify an important decision or the derivation of a critical piece of information, which outlines or affects the future of a project.

1. Complete program & project teams formation with scope, priorities and timeline	2/24/2017
2. Complete an improved Server Patch Management Process for review and approval	3/31/2017
3. Requests for GPO - process & policy Approval/publish	5/31/2017
4. Obtain approval, publish and implement the improved server (all, not server only) patch management process (GSO, SRC, ARB – forum)	4/28/2017
5. Complete expanding patch management process scope to include Hypervisors and Databases for review and approval	6/6/2017 - 8/25/2017
6. Develop patching automation enhancements	4/28/2017 - 8/25/2017
7. Develop and implement identified integration/interface opportunities with ServiceNow – (Demand #7)	4/28/2017 - 8/25/2017

Program Resources

Program sponsor	Steering committee member	Zbigniew Dubaj
Program owner	Steering committee member	Bruce Rader
Program manager	Steering committee member	Umar Khan
IT Security - Compliance Mgr	Steering committee member	TBD

Page: 7 of 9 | Words: 1,182 | English (United States)

Skype WebEx US To... 4421 9:13 PM

Viewing Lily Odile's screen

ISPI Program Charter Review Meeting 02012017 - Microsoft PowerPoint

Program Team Operating Structure & Collaboration

- 3 project focus teams: Servers (Window and Linux), Hypervisor, Databases
 - Each team has specific focus and scope that needs to align together
- Weekly team meeting
- Weekly status report
- Program team portal – Sharepoint teamsite
- Regular status update/ alignment with PwC Patching 2.15 & 2.18 program
- Celoxis Time Entry – PR19387

Click to add notes

Slide 3 of 4 "Jabil FY15 Corporate Template_37Dec2014" English (United States)

Skype WebEx US To... 43:35 9:12 PM

Katello Login

Monday, February 6, 2017 4:32 PM

Success!

* Katello is running at <https://sgsind0cmf01.corp.jabil.org>

Initial credentials are admin / HruMQK4DDydTnCeV

* To install an additional Foreman proxy on separate machine continue by running:

```
foreman-proxy-certs-generate --foreman-proxy-fqdn "$FOREMAN_PROXY" --certs-tar "~/$FOREMAN_PROXY-certs.tar"
```

The full log is at /var/log/foreman-installer/katello.log

Tuesday, February 7, 2017 8:31 AM

US Chess Federation:

Friday, February 24, 2017 9:03 PM

Clipped from: <https://secure2.uschess.org/webstore/receipt.php?500170353>

USCHESS.ORG ONLINE
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Here is your Receipt
Please [print this page](#) for your records, if you purchased a USCF membership it has information you will need to register for access to the USCF website.

Web Order	31180116
Date	2017-02-24
Time	16:19:12
USCF Reference #	500170353
Charge Card	Visa XXXX4249
Card Holder	Luther Barnum
Amount Charged	\$ 25.00
Authorization	071906
Transaction ID	20448439845

Premium Scholastic 1 yr Memb

USCF ID: 16295962
Expires: 2018-02-28
LAKAYLA CATRICE ROBINSON
PIN: 04288

Temporary Membership Card
U. S. Chess Federation
PO Box 3967
Crossville TN 38557
www.uschess.org

USCF ID Number	Membership Type
16295962 LAKAYLA CATRICE ROBINSON	Premium Schol Expires: 2018- 02-28

Web Order: 31180116 on 2017-02-24

Top Online Training in Linux, AWS, OpenStack, DevOps, & Azure | Linux Academy

Saturday, February 25, 2017 7:56 PM



Top Online Training in Linux, AWS, OpenStack, DevOps, & Azure
| Linux Academy

<https://linuxacademy.com/>

Advanced online training and certification courses in Linux, AWS, OpenStack and DevOps to learn new skills and get certified.

Fwd: Fw: Looking for accurate list of vCenters

Tuesday, February 28, 2017 12:34 PM

From: Piotr Berent

Sent: Tuesday, February 28, 2017 1:24 PM

To: Global_Backup_Operations <Global_Backup_Operations@Jabil.com>; GFSO <gfs0@jabil.onmicrosoft.com>

Subject: Looking for accurate list of vCenters

Hello Gents,

I'm looking for most valid list of vccenters, I've run small script to check where Virtual Center service exist and got following list, please tell me if something is missing here:

ALFAPDVCPO1
BELBUS02
CNCTUG0VC01
CNSZHGOVC01
HASBUS02
HUARDCBUS01
HUTISD0HRZVC01
MACBUS01
MANBUS10
MEMBUS02
MXGDLCOVC01
PENRDCBUS01
PLKWIMOBUS01
RJNBUS01
SANBUS02
SGSIND0HRZVC01
SHABUS01
SINRDCBUS01
SLFBUS10
TCHBUS10
TIJBUS01

TISBUS02
TVEBUS10
TXQBUS10
USALFDOHRZVC01
USALFD0UCSVC01
USALFD0VC01
USAUHD0VC01
USDEVH0BUS01
USSTPD0VC02
UZHBUS10
VNRBUS01
WUXBUS01
WXIBUS10

Piotr Berent
Storage/Backup/Virtual Platform
Global Backup Operations, EU
82-645-9969 - JVN
+48 556 129 969 - Office
+48 663 984 679 - Mobile
piotr_berent@jabil.com

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From: luther.barnum@gmail.com

Windows NLB (WNLB) and its disadvantages

Wednesday, March 1, 2017 7:55 AM

Clipped from: <http://www.loadbalancer.org/blog/windows-nlb-wnlb-and-its-disadvantages>



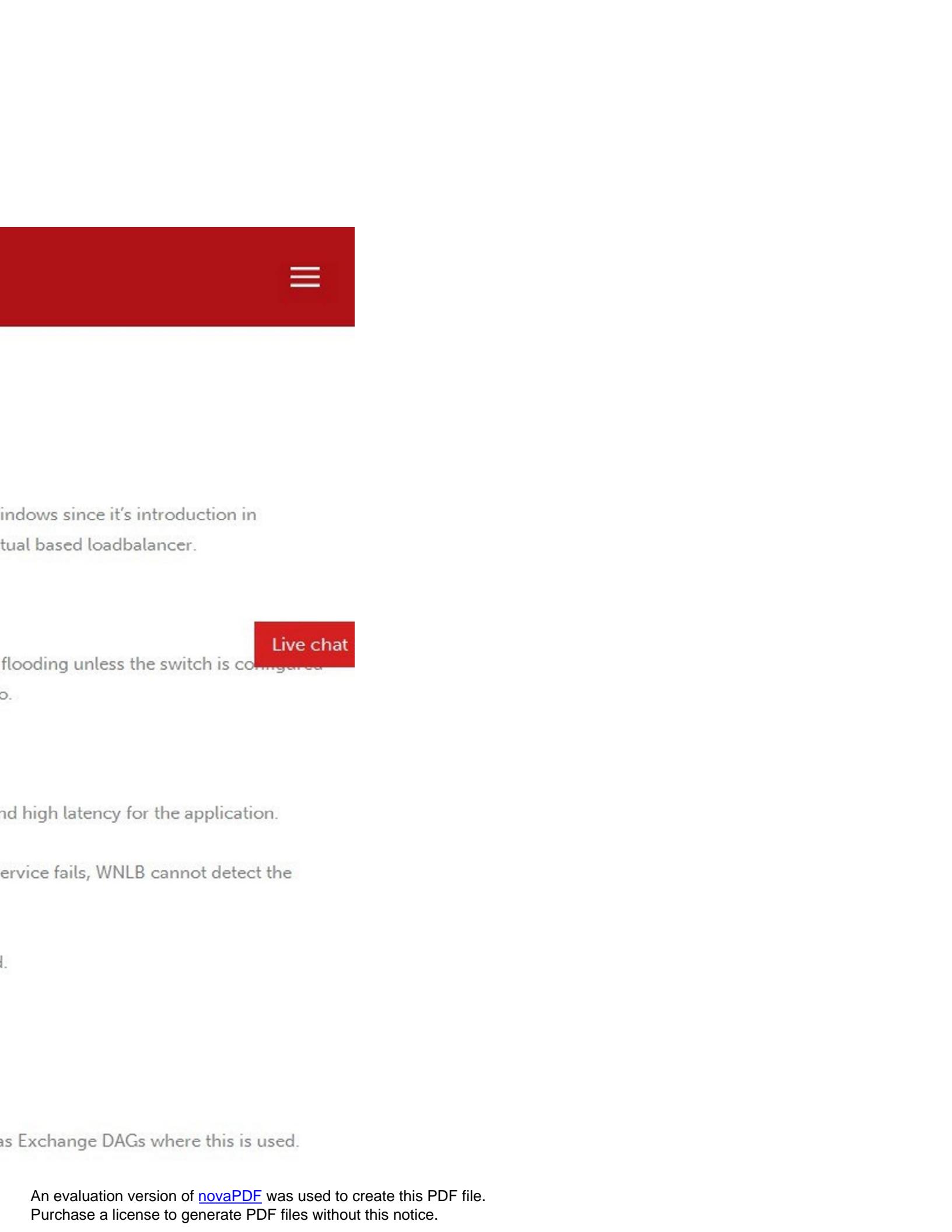
Windows NLB (WNLB) and its disadvantages

Posted by [Rob Cooper](#)

Whilst Windows Network Load Balancing (WNLB) has been constantly improved in each version of Windows, it still has a fairly extensive list of disadvantages when compared to a hardware or virtual

WNLB Disadvantages

- o Causes switch flooding. Unicast mode relies on this to operate, multicast mode also causes switch with static mappings of the multicast MAC addresses to the ports that the NLB nodes are connected to.
- o Does not support multiple scheduling algorithms for distributing client load.
- o Potential uneven spread of workloads across cluster nodes resulting in slow user response times and increased latency.
- o Cannot detect service outage. It can only detect server outage by IP address. If a particular server fails, it will still route requests to that server.
- o Unable to consider each servers current CPU load and RAM utilisation when distributing client load.
- o All hosts in a cluster must be located in the same subnet.
- o Only supports source IP address affinity/persistence.
- o Since WNLB is incompatible with Windows Clustering, WNLB cannot be used for application such as



indows since it's introduction in
tual based loadbalancer.

[Live chat](#)

flooding unless the switch is configured
o.

nd high latency for the application.

ervice fails, WNLB cannot detect the

l.

as Exchange DAGs where this is used.

- o Since WNLB is incompatible with Windows Clustering, WNLB cannot be used for application such as Exchange.
- o Manual configuration of all nodes is required making it more difficult to scale and troubleshoot.
- o Limited scalability. Based on official figures a WNLB cluster should support up to 32 nodes. However, articles that a cluster should be limited to 8 nodes.
- o Uses local resources on each server in the cluster.
- o Performance can degrade as more nodes are added to the cluster.
- o More complex than using a dedicated hardware or virtual load balancer.
- o Adding or removing a single node can cause clients to reconnect to the WNLB cluster.
- o Limited control of source IP NATing so cannot support complex network topologies and security zones.
- o No Layer 7 features such as extended persistence options, multiple scheduling methods, URL re-writing.
- o Cannot provide reverse proxy services functionality that is required for applications such as Lync.
- o Microsoft does not recommend WNLB for application such as Exchange due to performance issues.

A dedicated hardware or virtual load balancer addresses these drawbacks and makes configuring and managing the environment a whole lot easier !

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5.

l managing your load balanced



[Previous Article](#)



ABOUT THE AUTHOR

Rob Cooper

Rob's been with the company since 2001 and holds a critical link between the Sales, Support and Development teams by providing deployment, testing and configuration support. He is responsible for all Microsoft and VMware infrastructure and ensuring ongoing compliance. When he's not working in the office he enjoys getting out on his boat.

AWS and Azure

Business

Database Clustering

Denial Of Service

Disaster recovery

[Next Article](#)

10 and helps to maintain the
and Development departments
documentation skills. He's also
are approvals and certifications
then not at the Loadbalancer.org
at as well as playing bass guitar.



10

19

1

2

7

[Denial Of Service](#)

[Disaster recovery](#)

[HAProxy](#)

[High Availability](#)

[Linux](#)

[Linux Virtual Server](#)

[Load Balancing](#)

[Loadbalancer.org](#)

[Microsoft Exchange](#)

[Microsoft Remote Desktop Services](#)

[PCI DSS](#)

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[Uncategorised](#)

[VMware](#)

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2
7
21
22
16
5
54
14
5
4
2
10
12
1
2
2

1Password

Sunday, April 15, 2018 1:56 PM

Clipped from: <https://my.1password.com/register/account-key>

A3-5TVFZ9-Y4YAXF-RDLAY-XCDWG-QNBMB-NS462

KFC Chicken Recipe

Monday, September 5, 2016 10:37 PM

"KFC Chicken Recipe"

Clipped from: <http://www.houstonpress.com/restaurants/did-the-chicago-tribune-really-find-kfcs-secret-fried-chicken-recipe-8714564>



[EXPAND](#)

A bucket of the famous KFC Original Recipe fried chicken.

Photo by Cuc Lam

[A recent Chicago Tribune article](#) proclaimed that they believe they've discovered one of the most legendary secrets in the culinary world: the eleven herbs and spices used in the batter of KFC's famous Original Recipe fried chicken. We decided to test the recipe for ourselves to see if it's the real deal.

The *Tribune* obtained the recipe from Joe Ledington, the nephew of colonel Harland Sanders, who was the iconic founder of Kentucky Fried Chicken. Ledington says he used to blend the spices for his uncle and told a reporter that the recipe is authentic.

The *Tribune* tested it and made some determinations, like that the capital "T" in the handwritten recipe measurements meant "Tablespoon." One ingredient wasn't in the list, though: MSG. When Accent, a brand of MSG, was sprinkled onto a piece of chicken by a reporter, the flavor puzzle fell into place. A KFC spokesperson was asked whether or not the Original Recipe chicken includes MSG and that fact was confirmed.



[EXPAND](#)

The 11 herbs and spices from left to right, from the back: MSG, all-purpose flour, white pepper, salt, ground ginger, garlic salt, paprika, dried basil, celery salt, dried oregano, black pepper, dried thyme and ground mustard
Photo by Cuc Lam

Here is the list of spices to mix with two cups of all-purpose flour, as adjusted by Joe Gray of the *Chicago Tribune*:

2/3 tablespoon salt
1/2 tablespoon dried thyme leaves
1/2 tablespoon dried basil leaves
1/3 tablespoon dried oregano leaves
1 tablespoon celery salt
1 tablespoon ground black pepper
1 tablespoon dried mustard
4 tablespoons paprika

2 tablespoons garlic salt
1 tablespoon ground ginger
3 tablespoons ground white pepper



[EXPAND](#)

Taste-testers Tricia Miller and Belinda Grivas taking their task seriously in the first trial run.

Photo by Cuc Lam

With six hungry volunteers, the *Press* performed a taste comparison between fried chicken made from the list in the *Tribune's* article and Original Recipe fried chicken purchased from **KFC** at 12499 Westheimer. Each taster was given two pieces of chicken, one labeled "A" and the other "B." They were also given cards to keep notes about each sample.

Tasters found sample "A" to be "more traditional, tender and golden in color." One of the volunteers, Ryan Fernandez, commented that sample "A" tasted like "college, because we ate a lot of fried chicken at school!" The tasters commented that the sample "B" chicken was "darker in color, more greasy, 'homey,' moist and flavorful."



[EXPAND](#)

For trial one, the chicken was bathed in buttermilk for 48 hours and cooked at 350 to 375 degrees, resulting in a darker color.

Photo by Cuc Lam

After questions about appearance, texture, smell and taste were asked, each person was asked to pick his or her favorite. Overwhelmingly, "B" was chosen as the favorite (by a five-to-one vote). Of course, it was the home-cooked version. There were actually a few tweaks made to the *Chicago Tribune* recipe for this trial run. All of the 11 spices were used, but the chicken was soaked in a buttermilk bath for 48 hours before cooking. Rather than being sprinkled on, a half of a tablespoon of the MSG was added to the flour mixture.

The longer soak time in buttermilk actually seemed to improve the recipe. However, in the *Tribune's* test, the chicken was fried at 350 degrees and our inconsistent temperature, which ranged between that and 375 degrees, resulted in the darker crust. A small, non-commercial deep fryer was used in this first trial. The fryer had a quirky side effect in which the temperature would drop once items were added to the oil and temperature stability was not achieved. In the second trial, a cast-iron pan and thermometer were used, this time holding the temperature steady at 350 degrees.



[EXPAND](#)

For trial two, with the exception of the MSG step, the recipe and cooking instructions were followed exactly with astonishing results.

Photo by Cuc Lam

The results were dramatic. It was hard to fathom having to sprinkle raw MSG on food, so we still blended it into the flour-and-spice mixture. This time, the home-cooked version matched the real KFC chicken in both texture and flavor, but still appeared a bit darker than the real KFC fried chicken. Cooking instructions can be found [in the Tribune's article](#).

So here's the verdict: If the *Chicago Tribune's* Kentucky Fried Chicken Original Recipe isn't exact, it is very, very close. If he were still alive today, the Colonel might not be very happy with his nephew for spilling the beans about his secret recipe, but he could rest assured that people still love his fried chicken.

Thanks to the discovery, a home-cooked version is only a fry away; all that's missing is the bucket.

Award Winning Rib Rub

Tuesday, March 14, 2017 6:29 PM



Award Winning Rib Rub

<http://www.extraordinarybbq.com/award-winning-rib-rub/>

What makes award winning rub? A balance of flavors. Hitting all taste buds on the tongue. The perfect blend of heat & sweet. That's exactly what...

Shopping List

Thursday, October 6, 2016 3:37 PM

HOA
Driveway Sealant
AC Filter 18x24 and 12X12
Distilled water
Pune Juice
Toilet Paper
Paper Towels
Gas
Prescriptions

Saturday, February 11, 2017 8:51 AM

Students Erica Thompson and Russell Kocurek

Installation:

```
yum install -y epel-release ntp ntpdate sssd realmd oddjob oddjob-mkhomedir adcli samba-common-tools
```

```
systemctl enable ntpd  
systemctl start ntpd.service
```

Run the command:

```
# realm discover corp.jabil.org
```

corp.JABIL.ORG

type: kerberos

realm-name: CORP.JABIL.ORG

domain-name: corp.JABIL.ORG

configured: no

server-software: active-directory

client-software: sssd

required-package: oddjob

required-package: oddjob-mkhomedir

required-package: sssd

required-package: adcli

required-package: samba-common-tools

corp.jabil.org

type: kerberos

realm-name: CORP.JABIL.ORG

domain-name: corp.jabil.org

configured: no

Run the command:

```
# realm join --user=100016736@corp.jabil.org CORP.JABIL.ORG (replace 100021465 with your login)  
Password:
```

Run the command to verify:

```
# realm list
```

corp.JABIL.ORG

type: kerberos

realm-name: CORP.JABIL.ORG

domain-name: corp.jabil.org

configured: kerberos-member

server-software: active-directory

client-software: sssd

required-package: oddjob

required-package: oddjob-mkhomedir

required-package: sssd

required-package: adcli

required-package: samba-common-tools

login-formats: %U

login-policy: allow-permitted-logins

permitted-logins:

permitted-groups:

=====

Customized Configuration:

Add:

/etc/group:

linux_admin:x:666200513

visudo:

```
%linux_admin ALL=(ALL) ALL
```

/etc/ssh/sshd_config:

```
AllowGroups linux_admin
```

run the command:

```
systemctl restart sshd
```

Cut and replace the following into /etc/sssd/sssd.conf:

```
[sssd]
domains = corp.JABIL.ORG
config_file_version = 2
services = nss, pam
debug_level = 0

[domain/corp.JABIL.ORG]
debug_level = 0
ad_domain = corp.JABIL.ORG
krb5_realm = CORP.JABIL.ORG
realm_tags = manages-system joined-with-samba
cache_credentials = True
account_cache_expiration = 1
offline_credentials_expiration = 1
enum_cache_timeout = 86400 # seconds default is 120
entry_cache_nowait_percentage = 50
id_provider = ad
krb5_store_password_if_offline = True
Override_shell = /bin/bash
default_shell = /bin/bash
ldap_id_mapping = True
ldap_group_search_base = ou=GlobalOperations,ou=Global,dc=corp,dc=jabil,dc=org
use_fully_qualified_names = False
fallback_homedir = /home/%u
access_provider = simple
```

```
ignore_group_members = false
```

run the commands:

```
systemctl stop sssd
rm -f /var/lib/sss/db/*
rm -f /var/lib/sss/mc/*
systemctl start sssd
```

```
## These were added after default sssd.conf was generated by realmd
```

```
/etc/sssd/sssd.conf:
```

```
offline_credentials_expiration = 1 # days
```

```
account_cache_expiration = 1 # days
```

```
enum_cache_timeout = 86400 # seconds
```

```
ldap_group_search_base = ou=GlobalOperations,ou=Global,dc=corp,dc=jabil,dc=org
```

```
use_fully_qualified_names = False
```

```
fallback_homedir = /home/%u
```

Saturday, April 1, 2017 7:51 PM

How to Make Potting Soil Mix with Composted Manure Topsoil and Sand | Home Guides | SF Gate

Saturday, April 1, 2017 8:27 AM

Clipped from: <http://homeguides.sfgate.com/make-potting-soil-mix-composted-manure-topsoil-sand-81142.html>



[Home Guides](#) > [Garden](#) > [Pest Control](#)

How to Make Potting Soil Mix with Composted and Sand



How to Grow Potted Plants in Cow Manure



How to Mix Potting Soil Using Chicken Manure



Should I Buy Topsoil or Potting Soil for My Flower & Vegetable Garden?



Is It OK to Plant Vegetables in Compost Only?

The quality of your potting soil can mean the difference between lush, thriving plants and plants that just survive. High-quality potting mix might cost more than you really want to spend on dirt, though, especially when you're filling a raised bed or numerous large pots. When you raise livestock, poultry or horses, you have a ready source of manure -- a key ingredient in a rich potting mix suitable for indoor or outdoor plants. Make sure composted manure is fully finished, then has cured for one to three months for best results.



You can make potting soil from a variety of components.

- 1 Put on gloves to protect your hands from both dirt and soil-borne disease.
- 2 Place a soil sieve over a wheelbarrow. A soil sieve can be made by nailing a piece of hardware cloth over a frame made of two-by-four lumber.
- 3 Sift your composted, cured manure through the soil sieve into the wheelbarrow to eliminate any large pieces of straw, twigs or other particles that didn't decompose fully. Use an amount of composted manure equal to one-fifth the amount of potting soil you need. Consider this amount to be "1 part."
- 4 Add 1 part each of coarse sand and vermiculite to the composted manure in the wheelbarrow.
- 5 Sift 2 parts of dry topsoil through the sieve and into the wheelbarrow. Discard any rocks, twigs or other large pieces from the topsoil.
- 6 Mix all four ingredients thoroughly with a shovel or your gloved hands.
- 7 Add the potting mix to a plant pot with a drainage hole or a raised bed.
- 8 Store any unused potting mix in a bucket or other lidded container.



Manure Topsoil

Related Searches

Related Articles

[How to Start Seeds in Peat Moss or Potting Soil](#)

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[Optimal Soil-to-Compost Ratio for Raised Beds](#)

[How to Make a Potting Mix For an Indoor Plant](#)

[How to Grow Tomato Plants in Steer Manure](#)

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Compost Only?

8

Store any unused potting mix in a bucket or other lidded container.

Things You Will Need

Gloves
Soil sieve
Wheelbarrow

Shovel
Bucket
Vermiculite

Tip

You can also make standard store-bought potting mix go further by mixing it half and half with sifted composted manure.

Composted manure is ready to use in potting mix when it has an even texture throughout and an inoffensive, earthy smell.

Warning

Don't use potting soil with composted manure as a seed-starting medium, because it isn't sterile.

References (3) ▾

- Council of Bay Area Resource Conservation Districts: Composting Horse Manure
- Michigan State University Extension: Potting Soils and Seed-Starting Mixtures for Your Garden
- University of New Hampshire Extension: Using Your Compost

Photo Credits

- Photodisc/Photodisc/Getty Images

Suggest a Correction

How to Make a Potting Mix For an Indoor Plant | Home Guides | SF Gate

Saturday, April 1, 2017 8:27 AM

Clipped from: <http://homeguides.sfgate.com/make-potting-mix-indoor-plant-69745.html>



Home Guides > Garden > Pest Control

How to Make a Potting Mix For an Indoor Plant



Homemade Potting Soil for Succulent Plants



How Long Does It Take Cucumber Plants to Produce Fruit?

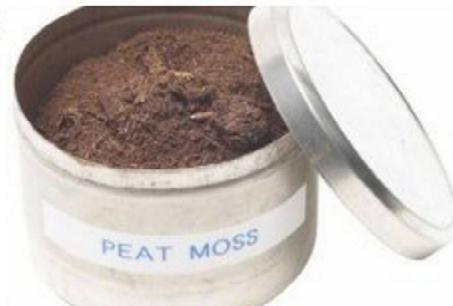


How to Make Potting Soil Mix with Composted Manure Topsoil and Sand



What Is the Difference Between Topsoil & Loam?

Houseplants depend on quality potting soil to provide nutrients, aeration and proper moisture. Although plant needs vary, most indoor plant varieties have similar soil quality requirements. Soil from your garden won't supply the necessary nutrients and it tends to compact inside a small pot, so it's important to only use a quality potting mixture. You can make your own potting mixture that provides for all the plant's needs using compost or loam as the base material in the mix.



Organic material provides structure in homemade potting mixes.

1 Fill a disposable aluminum pan with mature compost or garden loam, if you aren't using purchased sterilized compost or loam. Water the compost or loam until it's evenly moist and cover the pan with foil. Insert a meat thermometer into the soil, poking it through the foil.

2 Bake the compost or loam in a preheated 250-degree Fahrenheit oven until the thermometer reads 180 degrees. Bake at this temperature for 30 minutes to kill any pathogens or weed seeds in the soil. Allow the compost or loam to cool completely before mixing the potting soil.

3 Combine the compost or loam with equal parts finely milled peat moss and coarse sand, perlite or vermiculite, mixing the ingredients together in a large bucket. Peat provides soil structure and moisture retention, while sand, perlite or vermiculite supply aeration and ensure proper drainage.

4 Water the potting mixture thoroughly, mixing up the ingredients so they are all completely moistened. Allow the mixture to sit and absorb the moisture for 30 to 60 minutes so the peat can fully hydrate.

5 Add 4 tablespoons of agricultural lime powder for every bushel of potting mix to bring the soil pH to within a 6.0 to 7.0 range. Mix the lime in with the other ingredients. If your plants require a different pH, perform a pH test with a purchased kit and adjust the lime levels as recommended by the test results and plant needs.



t

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a purchased kit and adjust the lime levels as recommended by the test results and plant needs.

- 6** Mix 2 tablespoons of a balanced slow-release fertilizer, such as a 10-10-10 blend, into each bushel of soil. Alternatively, add 2 tablespoons each of potassium nitrate, calcium nitrate and superphosphorus fertilizer.

Things You Will Need

Aluminum pan	Peat moss
Compost or loam	Sand, perlite or vermiculite
Foil	Agricultural lime
Meat thermometer	Soil test kit
Bucket	Balanced fertilizer

Tip

Store unused potting soil in a sealed container so it remains sterile until you are ready to use it.

References (2) >

Photo Credits

- Hemera Technologies/PhotoObjects.net/Getty Images

[Suggest a Correction](#)

Fertilizing St Augustine Lawns - Frequently Asked Questions - Polk County Master Gardeners

Monday, April 10, 2017 7:16 PM

"St Augustine Fertilizer Schedule"

Clipped from: <http://polk.ifas.ufl.edu/mg/faqs/Fertilizing%20St%20Augustine.shtml>

Fertilizers

How should I fertilize my St. Augusting Lawn?



To produce an attractive lawn, St Augustine grass requires regular applications of fertilizers. Knowing the proper amount of fertilizer to apply requires knowledge of the soil's fertility and knowledge of fertilizers. To learn about the soil's fertility it is recommended that a soil sample be collected and the sample sent to a laboratory for analysis. A soil sample kit with instructions and mailing materials can be obtained by calling the Polk County Extension Office at (863) 519-8677 or sending an e-mail to gammatwo@ufl.edu. A copy of the soil test report will be returned to you with recommendations on the amount of fertilizer to apply and when. A copy will also be sent to the Extension office so you can call if you have question.

The composition of fertilizers:

All fertilizers are composed of a mixture of the following molecules: Nitrogen (N), Phosphorus (P_2O_5), and Potassium (K_2O) in the greatest amount.

Calcium (Ca), Magnesium (Mg), and Sulfur (S) are required in smaller amounts.

The micronutrients Iron (Fe), Manganese (Mn), Zinc (Zn), Copper (Cu), Chlorine (Cl), Molybdenum (Mo), and Boron (B) are required in very small amounts but are as essential.

Central Florida soils are naturally high in phosphorus. Applying more phosphorus than your grass needs will likely result in pollution of lakes and

streams. Look for a fertilizer with 0%, 1%, or 2% phosphorus unless a soil test indicates your lawn needs more.

Fertilizers available for purchase:

The fertilizers available in stores or garden centers are sold based on the nutrients they contain. Printed on the bag are three numbers such as 8-8-8 or 16-2-8. The numbers show the percent's of nitrogen (N), phosphorus (P_2O_5), potassium (K_2O) in that order. Stated another way an 16-2-8 fertilizer has 16 lbs. of N, 2 lbs. of (P_2O_5) and 8 lbs. of (K_2O) in each 100 lbs. of fertilizer. In addition, many fertilizers contain minor and micronutrients.

Florida law requires that each bag have a tag attached or printed on the bag, which details the plant nutrients in the bag. Examine the tag to see what you're buying.

St. Augustine requirements:

St Augustine grass requires nitrogen in amounts greater than the other nutrients. Nitrogen fertilizers may be water-soluble and/or slow-release. Because water-soluble nitrogen is easily leached (washed) from the soil by rain and irrigation, only small applications of water-soluble nitrogen should be used at one time. Common water-soluble forms of nitrogen include ammonium nitrate, urea, ammonium sulfate or sodium nitrate. Synthetic slow-release forms of nitrogen include: sulfur coated urea, ureaform/nitroform, Nutralene and Polyon.

Some natural organic slow release materials are sewage sludge (Milorganite), cow manure and poultry manure.

The fertilizer tag will list the percent of nitrogen that is slow release or insoluble.

Using Iron in the Summer:

Sometimes during the summer St Augustine grass will turn yellow indicating a lack of nitrogen. However, fertilizing with nitrogen in the summer is not desirable because nitrogen often encourages disease and insect problems. Applying Iron (Fe) to St Augustine grass will often result in the desirable dark green color without stimulating excessive grass growth from a nitrogen application. Iron sulfate (2 ounces per 3 to 5 gallons of water per 1,000 square ft.) or a chelated iron source may be used to provide this greening effect. The greening from a supplemental iron application is temporary (approximately 2 to 4 weeks), as a result repeated applications are needed for summer long color.

Use Slow-release fertilizers:

When fertilizing St Augustine grass, apply a slow-release form of nitrogen or a combination of water-soluble and slow-release. Apply no more than $\frac{1}{2}$ lb water-soluble or 1 lb slow-release nitrogen per 1,000 square ft. per

application. If you have had your soil tested apply the amount of phosphorus (P_2O_5) and potassium (K_2O) recommended by the soil test. In the absence of a soil test apply a complete fertilizer with an analysis such as 16-4-8 or 12-2-12 with the minor nutrients.

To determine the amount of fertilizer to apply per 1,000 sq. ft., divide the percent of nitrogen in the fertilizer into 100. If you're using 16-4-8, divide 100 by 16 ($100 \div 16 = 6.25$ lbs). If all of the nitrogen is water soluble then apply only half pound of nitrogen or 3.12 lbs. per 1,000 square feet. If the nitrogen in the fertilizer is 50% water soluble and 50% slow release then you may apply one lb. of nitrogen since only 50% is water soluble.

Fertilizer application programs:

There are three fertilizer programs recommended for St Augustine grass in Polk County. The basic or low maintenance program will result in a minimum quality turf grass. The second level is a moderate program, which will result in an intermediate-quality turf grass. The third level is a high maintenance program, which should produce a high quality turf grass with good color and growth characteristics.

Only three fertilizer applications are needed for the basic program. Two applications of a complete fertilizer such as 16-4-8 should be applied, one in March and the second in September. The third application is an iron application in June. The moderate program calls for five fertilizer applications: complete fertilizer in March and in October, an application of slow release nitrogen in May and August plus an Iron application in July. The high maintenance program calls for six applications: complete fertilizer applications in February and October, at $\frac{1}{2}$ lb. per 1,000 sq. ft. of water soluble nitrogen in April, plus slow-release nitrogen applications in May and August with an application of iron in July.

Summary:

St Augustine grass is the most popular turf grass for home lawns in Polk County. It remains a major challenge to maintain attractive turf areas while protecting our water bodies from pollution from excess or improperly applied fertilizer materials.

References:

Sartain, J.B. 2007. *General Recommendations for Fertilization of Turfgrasses on Florida Soils*. Florida Cooperative Extension Service, IFAS, Univ. of Fla. Pub # SL21. edis.ifas.ufl.edu/LH014

Trenholm, L.E., J.L. Cisar, and J. Bryan Unruh. 2006. *St Augustinegrass for Florida Lawns*. Florida Cooperative Extension Service, IFAS, Univ. of Fla. Pub # ENH5. edis.ifas.ufl.edu/LH010

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