

SYNTHETIC
INTELLIGENCE:
GIT FROM GITHUB
TO PRIVATE
SERVER

SYNTHETIC INTELLIGENCE

finally

A real-time project



module4

A realtime project

- x Setting up your own repository on server
- x Setting up the automated configuration script
- x Integration with sublime text and VS code
- x Deploying a project on private repository

- x conclusion



SETTING UP REPOSITORY ON SERVER

- x Here we have seen that on github the codes are in public .there is a method for the advanced users in which they can create their own repository server ,because it protects them in many ways from issues and they are in full control of the system as everythin is hosted in a private server on a private setup.
- x Here we are going to setup a private git repo server with the help of GITLAB which is a great software and platform for that.



The server setup is done on Cent os ,you can do it in Ubuntu or other Linux distributions , there is a good docs on the website for that.

This is an advanced concept and there will be several errors and it requires some knowledge of Linux as well ,most of the part is covered here.

First the things needed are as follows:-

- X Virtual box :please install the latest as there are some issues with old ones in windows 10
- X Gitlab account
- X Cent os downloaded and installed on virtual box
- X Ubuntu 16. 04 Its

X Setup network
between host and
guest os in virtual
box

Set permissions for
gitlab

Install and enable
postfix

Install gitlab omnibus via
terminal

Configure gitlab and
restart it

X Run through browser
of the guest or host

X Setup root and
password

X Change it

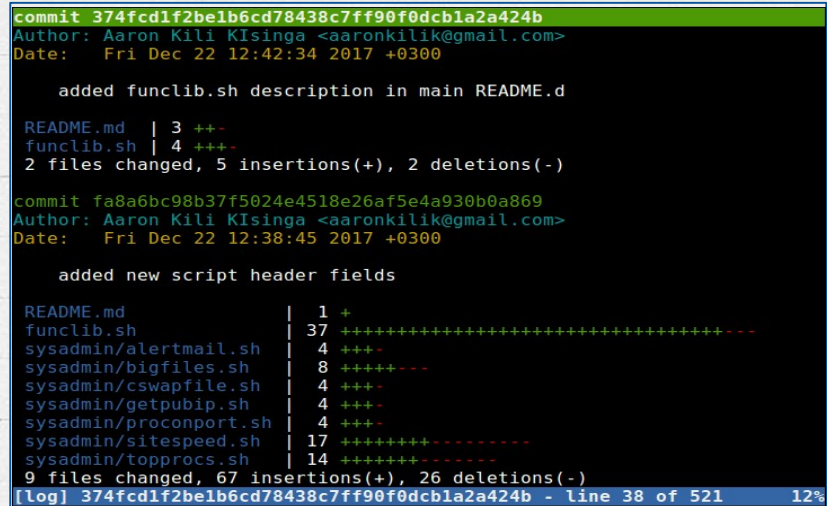
X Build the repos

X done

SETTING UP THE AUTOMATED SCRIPTS

The push and commit operation of the git repo can be automated with shell scripts.

Be careful as it is not a recommended thing in development but it should be learnt for the sake of knowledge.



```
commit 374fcd1f2be1b6cd78438c7ff90f0dcb1a2a424b
Author: Aaron Kili KIsinga <aaronkilik@gmail.com>
Date:   Fri Dec 22 12:42:34 2017 +0300

    added funclib.sh description in main README.d

README.md | 3 ++-
funclib.sh | 4 +++-
2 files changed, 5 insertions(+), 2 deletions(-)

commit fa8a6bc98b37f5024e4518e26af5e4a930b0a869
Author: Aaron Kili KIsinga <aaronkilik@gmail.com>
Date:   Fri Dec 22 12:38:45 2017 +0300

    added new script header fields

README.md | 1 +
funclib.sh | 37 ++++++-----
sysadmin/alertmail.sh | 4 +++-
sysadmin/bigfiles.sh | 8 +++++-
sysadmin/cswapfile.sh | 4 +++-
sysadmin/getpubip.sh | 4 +++-
sysadmin/proconport.sh | 4 +++-
sysadmin/sitespeed.sh | 17 ++++++-----
sysadmin/topprocs.sh | 14 ++++++-----
9 files changed, 67 insertions(+), 26 deletions(-)
[log] 374fcd1f2be1b6cd78438c7ff90f0dcb1a2a424b - line 38 of 521 12%
```

INTEGRATION WITH SUBLIME TEXT AND VS CODE

Git can be integrated with sublime text as the operation can be performed within the sublime window.

It is a basic and simple package in the sublime text that allows us to perform the function on it.

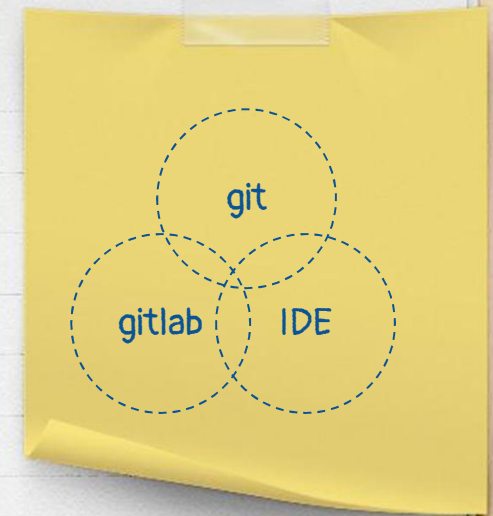
The feature is important because in real development environment it is more practical approach and it makes things more smooth for the process of development.



DEPLOYING A PROJECT ON A PRIVATE REPOSITORY

In this process we are going to administer our own repository and how we can integrate it with the development tools such as sublime text and VS code.

We are going to use the repos in the windows. The basic operations are performed such as ssh key generation commit and push to remote and the private repo in the cent os will be maintained by us in this part .



One last thing

The conclusion

conclusion

WHAT WE HAVE LEARN

Git is a great tool for helping the programmers

It is the foundation for DevOps and continuous integration

Try to use private repos for better control and security

The present

Well git is just a tool for helping the process of program development but it quite useful and it will benefit you to learn the tool for the future programming skills such as DevOps

The future

This is just the beginning of the Devops and the modern approach to the development process , and there is a long road ahead

THANK YOU

Learn less practice more,
Really is the effective method to
success

all the best for the future

