dev-ops traning material

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To: Vishal Gupta <Vishal.Gupta@synechron.com> apt-get update apt-get install apache2

curl localhost

https://us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#LaunchInstanceWizard:

apt-get update apt-get install git git --version

root@ip-172-31-46-92:/home/ubuntu# git config --global user.name "Vishal Gupta"

root@ip-172-31-46-92:/home/ubuntu# git config --global user.email "vishal.gupta@synechron.com"

root@ip-172-31-46-92:/home/ubuntu# git config --global -l

user.name=Vishal Gupta

user.email=vishal.gupta@synechron.com

root@ip-172-31-46-92:/home/ubuntu#

root@ip-172-31-46-92:/home/ubuntu#

root@ip-172-31-46-92:/home/ubuntu#

root@ip-172-31-46-92:/home/ubuntu/repo# git init Initialized empty Git repository in /home/ubuntu/repo/.git/ root@ip-172-31-46-92:/home/ubuntu/repo#

root@ip-172-31-46-92:/home/ubuntu/repo# git status On branch master

No commits yet

nothing to commit (create/copy files and use "git add" to track) root@ip-172-31-46-92:/home/ubuntu/repo# vi first root@ip-172-31-46-92:/home/ubuntu/repo# git status
On branch master

No commits yet

Untracked files:

(use "git add <file>..." to include in what will be committed)

first

nothing added to commit but untracked files present (use "git add" to track) root@ip-172-31-46-92:/home/ubuntu/repo# git add first root@ip-172-31-46-92:/home/ubuntu/repo# git status
On branch master

No commits yet

```
Changes to be committed:
 (use "git rm --cached <file>..." to unstage)
    new file: first
root@ip-172-31-46-92:/home/ubuntu/repo# git commit -m"first commit"
[master (root-commit) 5742437] first commit
1 file changed, 2 insertions(+)
create mode 100644 first
root@ip-172-31-46-92:/home/ubuntu/repo# git log
commit a6659a7f6bfa83d8288d9334d755291aae3832e9 (HEAD -> master)
Author: Vishal Gupta < vishal.gupta@synechron.com>
Date: Tue Sep 17 06:52:33 2019 +0000
  second commit
commit 57424370dfb305c7e51fd7633e3b2934251efe3f
Author: Vishal Gupta < vishal.gupta@synechron.com>
Date: Tue Sep 17 06:44:55 2019 +0000
  first commit
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# git branch
* master
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# git branch trading
root@ip-172-31-46-92:/home/ubuntu/repo# git branch
* master
 trading
root@ip-172-31-46-92:/home/ubuntu/repo# git checkout trading
     first
M
Switched to branch 'trading'
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# git branch
 master
* trading
root@ip-172-31-46-92:/home/ubuntu/repo# git status
On branch trading
Changes not staged for commit:
 (use "git add <file>..." to update what will be committed)
 (use "git checkout -- <file>..." to discard changes in working directory)
    modified: first
```

no changes added to commit (use "git add" and/or "git commit -a")

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```
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# git add first
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# git commit -m"child branch"
[trading 8dc4053] child branch
1 file changed, 1 insertion(+), 5 deletions(-)
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# cat first
hello world 1 `
root@ip-172-31-46-92:/home/ubuntu/repo# git checkout master
Switched to branch 'master'
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo# cat first
1
:!
root@ip-172-31-46-92:/home/ubuntu/repo# git merge trading
Updating a6659a7..8dc4053
Fast-forward
first | 6 +----
1 file changed, 1 insertion(+), 5 deletions(-)
root@ip-172-31-46-92:/home/ubuntu/repo#
root@ip-172-31-46-92:/home/ubuntu/repo#
```

hdhd

root@ip-172-31-46-92:/home/ubuntu/repo#

tried creating conflict by making changes in master & child branch files manully

root@ip-172-31-46-92:/home/ubuntu/repo# git merge trading Auto-merging first CONFLICT (content): Merge conflict in first Automatic merge failed; fix conflicts and then commit the result. root@ip-172-31-46-92:/home/ubuntu/repo# vi first root@ip-172-31-46-92:/home/ubuntu/repo#

Steps to connect to reomte git hub

root@ip-172-31-46-92:/home/ubuntu/repo# git remote add **origin** https://github.com/vikasam1/devops-viksam (origin is key to GIT repository)

vikasam1/devops-viksam

Contribute to vikasam1/devops-viksam development by creating an account on GitHub.

github.com

root@ip-172-31-46-92:/home/ubuntu/repo# git remote -v origin https://github.com/vikasam1/devops-viksam (fetch) origin https://github.com/vikasam1/devops-viksam (push) root@ip-172-31-46-92:/home/ubuntu/repo#

push code to GIT hub

root@ip-172-31-46-92:/home/ubuntu/repo# root@ip-172-31-46-92:/home/ubuntu/repo# git push origin master Username for 'https://github.com': vikasam1 Password for 'https://vikasam1@github.com': Counting objects: 18, done. Compressing objects: 100% (6/6), done. Writing objects: 100% (18/18), 1.31 KiB | 672.00 KiB/s, done.

Total 18 (delta 1), reused 0 (delta 0)

remote: Resolving deltas: 100% (1/1), done. To https://github.com/vikasam1/devops-viksam

* [new branch] master -> master

root@ip-172-31-46-92:/home/ubuntu/repo#root@ip-172-31-46-92:/home/ubuntu/repo#

Clone repository to local system

root@ip-172-31-46-92:/home/ubuntu# git clone https://github.com/vikasam1/hello-world.git Cloning into 'hello-world'...

remote: Enumerating objects: 7, done. remote: Counting objects: 100% (7/7), done. remote: Compressing objects: 100% (6/6), done.

remote: Total 7 (delta 0), reused 0 (delta 0), pack-reused 0

Unpacking objects: 100% (7/7), done. root@ip-172-31-46-92:/home/ubuntu# root@ip-172-31-46-92:/home/ubuntu# root@ip-172-31-46-92:/home/ubuntu# ls -ltr total 16

-rwxr-xr-x 1 root root 19 Sep 17 06:27 xyx.txt

drwxr-xr-x 3 root root 4096 Sep 17 07:33 repo

drwxr-xr-x 4 root root 4096 Sep 17 09:28 repo1 drwxr-xr-x 4 root root 4096 Sep 17 09:30 hello-world

root@ip-172-31-46-92:/home/ubuntu/hello-world# git remote -v origin https://github.com/vikasam1/hello-world.git (fetch)

origin https://github.com/vikasam1/hello-world.git (push)

SSH authentication to GIT hub

root@ip-172-31-46-92:~/.ssh# ssh-keygen Generating public/private rsa key pair.

Enter file in which to save the key (/root/.ssh/id rsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /root/.ssh/id rsa.

Your public key has been saved in /root/.ssh/id rsa.pub.

The key fingerprint is:

SHA256:0zhKzpIK1Dmyom42GxeRatX0yeY1FyTVHbgiby+75sY root@ip-172-31-46-92

-rw-r--r-- 1 root root 402 Sep 17 09:51 id_rsa.pub

-rw----- 1 root root 1675 Sep 17 09:51 id_rsa

root@ip-172-31-46-92:~/.ssh#

root@ip-172-31-46-92:~/.ssh#

root@ip-172-31-46-92:~/.ssh# cat id_rsa.pub

ssh-rsa

AAAAB3NzaC1yc2EAAAADAQABAAABAQCyWfjjjdtddx7pCXyiKTP6SxX5U2IjrHCaxUOFYBy79bCl6dFLY3 iTGltT+Ue2+FT7cCEEq32m4jwd8kZZat08jAkL/qZV8cNX4jM/tMXB7dfvHy8CSf7ZAdlF654ArPYHM1VfB P4Ko3my5T1OdyfGiBB5jwIzrE3Wxcy72MkNaX9N17WI9gweIhnBPYPhd6Fb4C7gzyHHrZiGhg3gBgu95 nqxOlkgJY4jwhqMJTpnhNbANKoWh2oZa4WK+YbeEwiz1Fbw3cUC/ZrL6EtMFeHZx898OrRFodlGPEmv 7kz45F3HFFrIYcEayiAcVJZ/vfKeBpxhgzU1RtHXGRQf6Nz/root@ip-172-31-46-92

add the public key to git-repo -> settings -> deploy key (provide write access)

root@ip-172-31-46-92:/home/ubuntu/hello-world# git remote add tex git@github.com:vikasam1/hello-world.git (the link should not be https) root@ip-172-31-46-92:/home/ubuntu/hello-world# git push tex master

pull and merge

pull = fetch+merge

fetch = this will fetch details from remote

root@ip-172-31-46-92:/home/ubuntu/repo3# git fetch delta master

From https://github.com/vikasam1/dev-ops-clean

* branch master -> FETCH HEAD

root@ip-172-31-46-92:/home/ubuntu/repo3# ls -ltr

total 8

-rw-r--r-- 1 root root 11 Sep 17 11:11 index.html

-rw-r--r-- 1 root root 12 Sep 17 11:11 contact.txt

root@ip-172-31-46-92:/home/ubuntu/repo3# git branch -a

* master

mycode

remotes/delta/master

remotes/delta/mycode

root@ip-172-31-46-92:/home/ubuntu/repo3# git checkout master

Already on 'master'

root@ip-172-31-46-92:/home/ubuntu/repo3# ls

contact.txt index.html

root@ip-172-31-46-92:/home/ubuntu/repo3# git merge remotes/delta/master

Updating 5a6afb5..65f6781

Fast-forward

test.txt | 1 +

1 file changed, 1 insertion(+)

create mode 100644 test.txt

root@ip-172-31-46-92:/home/ubuntu/repo3# ls

contact.txt index.html test.txt

root@ip-172-31-46-92:/home/ubuntu/repo3#

Isblk (lisk block devises)

Regards,
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