**SETUP WEB SERVICE REMOTELY USING FABRIC (PROJECT)**

STEPS:

1. Prepare your script
2. Get the link containing your Artifact (E.g. from tooplate.com)
3. Do a remote SSH connection to the web server

vim fabfile.py

#!/user/bin/python3

from fabric.api import \*

def system\_info():

print(“Disk Space”)

local(“df –h”)

print(“Ram size”)

local(“free –m”)

print(“System uptime”)

local(“uptime”)

def remote\_exec():

print(“Get system Info”)

run(“hostname”) (run is used for remote commands)

print(“Disk Space”)

run(“df –h”)

print(“Ram size”)

run (“free –m”)

print(“System uptime”)

run (“uptime”)

sudo(“yum install mariadb-server –y) (sudo is used to upgrade your privileges)

sudo(“systemctl start mariadb-server)

sudo(“systemctl enable mariadb-server)

def web\_setup(WEBURL, DIRNAME):

print(“###############################################################”)

local(“apt install zip unzip –y”)

print(“###############################################################”)

print(“Installing Dependencies”)

print(“###############################################################”)

sudo(“yum install httpd wget unzip –y”)

print(“###############################################################”)

print(“Start & Enable service”)

print(“###############################################################”)

sudo(“systemctl start httpd”)

sudo(“systemctl enable httpd”)

print(“###############################################################”)

print(“Downloading and pushing website to webservers”)

print(“###############################################################”)

local((“wget -0 website.zip %s”) % WEBURL)

local(“unzip –o website.zip”)

with lcd(DIRNAME): (LCD means local change directory)

local(“zip –r tooplate.zip \* “)

put(“tooplate.zip”, “/var/www/html/”, use\_sudo=True)

with cd(“/var/www/html/”): (these command runs in the remote machine)

sudo(“unzip -o tooplate.zip”)

sudo(“systemctl restart httpd”)

print(“Website setup is done.”)

:wq

**REMOTE SSH CONNECTION TO THE WEB SERVER**

* Get the URL of the artifact
* fab –H 192.168.10.3 -u devops web\_setup:(URL of the artifact, Directory name where it is saved)
* Test it using the IP of the web server
* To set it up on more than one server, use:

fab –H 192.168.10.3, 192.168.10.4 -u devops web\_setup:(URL of the artifact, Directory name where it is saved)