

Code VS 1

ftp-sync with Development Remote 1.1

and server FTP an to connect to configured be can ftp-sync extension The directory working current the to and from files individual download or upload you installed. is extension the Once server. the to directory whole the sync or server. remote the with sync in work to directory current the configure can

```
{
  ,"/" "remotePath":
  ,"example.com" "host":
  ,"dev@example.com" "username":
  ,"mypass12324" "password":
  ,21 "port":
  ,false "secure":
  ,"ftp" "protocol":
  ,false "uploadOnSave":
  ,false "passive":
  ,false "debug":
  ,null "privateKeyPath":
  ,null "passphrase":
  ,null "agent":
  ,[] "allow":
  [ "ignore":
    ,"\.vscode"
    ,"\.git"
    ,"\.DS_Store"
  ],
  { "generatedFiles":
  [ "extensionsToInclude":
    ""
  ],
  "" "path":
  }
}
```

fol- the including extension this for exist commands Various Commands:
lowing.

- file) (current file download ftp-sync: •
- file) (current file upload ftp-sync: •

Bash ୧

STDIN from File to Lines Multiple Write ୧.୧

command: following the run file, text a to once at text multiline add To

```
txt.tuptuo<<FOE>> tac
 ୧ eniL
 ୧ eniL
 ୧ eniL
FOE
```

SSH ୨

other and ports closing and opening server. sshd configuring about Material
stuff ssh technical

Port SSH default Changing ୧.୨

/something.conf.d/sshd_config/etc/ssh/ file a create or sshd_config/etc/ssh/ Open -l
file: the inside line following the add and

port) desired 23434(your Port

settings: firewall in port selected the Allow -୧

Server Proxy Socks a as Connection SSH USE ୧.୩

an create to connection a establishing when ssh to option D the pass can You
following the example. For system. local the on server proxy application-level
୧୨୩୪୫ port on proxy v୫ socks a to listen to browser web your allows connection
localhost: the on

```
user@yourserver.com 22 -p 1:12345.0.0.127 -D ssh
```

hpts using Proxy HTTP to Proxy Socks୫ Convert ୧.୧.୩

```
-socks-to-proxyhttp -g install npm hpts: Install #  
1080 -p 86.1.168.192 -host- 1:9999.0.0.127 -s hpts proxy: http the of 1080 port to 9999 port
```

V CentOS on Server VNC Installing ୧

```

            resu cnv ddA -
"ssecca CNV rof detaerc eodnhøj resU" c- ddaresu odus
            eodnhøj
            dwssap odus
potkseD llatsnl# "potkseD emonG" llatsnipuorg muy odus
            tnemnorivne
potksed retfa launam a ni dednemmocer si toober A#
            noitallatsni
            revres-cnvregit y- llatsni muy odus
/ rednu elif tinu ecivres CNV cireneg fo seipoc owt ekaM#
            metSYS/metSYS/cte
/cte/ ecivres.@revrescnv/metSYS/dmetSYS/bil/ pc odus
            ecivres.Ƒ:@revrescnv/metSYS/dmetSYS
eht nur lliw CNV taht snaem eman elif eht ot Ƒ gniddA#
            .e.i ,(trop CNV tluafeD) 009Δ fo trop bus a sa ecivres
            Ƒ09Δ
htiw <RESU> gnicalper ,revreS.1:@revrescnv erugifnoC#
            emanresu lautca
            tratScexE fo dne eht ot 0ƳYx08Ƴl yrtemoeg- ddA#
            daoler-nomead ltcmetSYS odus

            ecivres.1:@revrescnv elbane ltcmetSYS odus
trop-dda-- cilbup=enz-- tnenamrep-- dmc-llawerif odus
            selur llawerif putes# pct/Ƴ09Δ-109Δ=

revrescnv nur dna hss hguorht resu cnv htiw ni gol woN#
            drowssap cnv a etaerc ot deksa eb ot
            [pi_revres]@eodnhøj hss

            EROM DAER#
-ot-woh/slairotut/ytinummoc/moc.naecolatigid.www//:sptth#
            -emong- eht- rof- ssecca-etomer-cnv- erugifnoc-dna- llatsni
            V- sotnec-no- potksed
            revreS-CNV/soTwoH/gro.sotnec.ikiw//:sptth#

ruo eruces ot gnilennut HSS esu nac eW :gnilennuT HSS#
            gnidrawrof trop htiw skrow tl .noitcennoc CNV
N- pi_revres@eodnhøj 109Δ:pi_revres:009Δ L- hss

```

V CentOS on AnyDesk Installing 5

V CentOS on mysql and httpd php, Installing 6

-servermariadb install yum

```

        httpd install yum
        php install yum
        firewall #Configure
        -port=80/tcp-add- -permanent- -cmdfirewall sudo
        -port=443/tcp-add- -permanent- -cmdfirewall sudo
        -reload- -cmdfirewall sudo

```

-commands)-and-rules-firewall-common-essentials(<https://www.digitalocean.com/community/tutorials/how-to-set-up-a-firewall-on-centos-7>)

```

ACCEPT -j ,ESTABLISHEDNEW -ctstate- conntrack -m ,44380 -dports- multiport -m tcp -p INPUT -A
ACCEPT -j ESTABLISHED -ctstate- conntrack -m ,44380 -dports- multiport -m tcp -p OUTPUT -A

```

Creating a single virtual host to multiple sites on a server

<https://www.digitalocean.com/community/tutorials/how-to-set-up-apache-virtual-hosts-on-centos-7> Source: -
/var/www in site every for directory a up Set - apache-virtual-hosts-on-centos-7
files: host virtual Create - permission. VΔΔ up set and ownership change and

```

        -available/etc/httpd/sites mkdir sudo
        -enabled/etc/httpd/sites mkdir sudo
        files host virtual #Create
        -available/example.com.conf/etc/httpd/sites nano sudo

```

```

        server name #Configuring
        -utilsbind and bind Install -
        /etc/named.conf in zone master a Add -
named.conf in specified you which /var/named/yourdomain.com.zone in file a Create -
        named Restart -
6--centos-on-server-dns-bind-the-install-tohttps://www.digitalocean.com/community/tutorials/how-to-set-up-a-firewall-on-centos-7

```

Centos on PPTP Λ

EPEL: enable First, -

Editing Video 9

Images Still From Video Music Create 1.9

picture a using video music long second 10 a creates command following The
audio: an and

```
out.mp4 -shortest 10 -t yuv420p -pix_fmt 192k -b:a aac -c:a stillimage -tune libx264 -c:v ~/
```

sub.srt -i ffmpeg ass. to srt convert First - videos: to subtitles custom Add
 out.mp4 "ass=sub.ass" -vf video.mp4 -i ffmpeg video: to sub the Burn - sub.ass
 out- copy -c:a eq=brightness=0.06 -vf input.mp4 -i ffmpeg effects Apply -
 put.mp4
 value MarginV the change margin bottom subtitle change To -

/ Youtube-dl and FFMPEG with video a of Part Download 2.9 download video YouTube Partial

<https://unix.stackexchange.com/a/388148/142579> of Courtesy

-youtube- -skip-download youtube-dl streams: audio and video Get •
<https://youtu.be/D1dBPcO-Zfk> -g skip-dash-manifest
 url? url, e.g. variables to links stream audio and video the Pass •
 audio and video mapping ffmpeg, with portion desired the Download •
 t- \$url? i- 09:29 ss- \$url? i- 09:29 ss- ffmpeg video: the into streams
 mp4.part1 aac a:c- libx264 v:c- a:1 map- v:0 map- A

solution. better a be must there So. audio. the only gets This

FFmpeg with Mapping Channel 3.9

to file input from stream input certain a from channels map to possible is It
 this use this, do To file. output the in stream output certain a from channel a
 command:

```
[in_file_id].[in_stream_id].[in_channel_id] -map_channel -i ffmpeg  

file: stereo a in channels audio switches example following the example For  

output 1.0.0 -map_channel 0.0.0 -map_channelinput -i ffmpeg  

mono to stereo transforms following //The  

out.mp3 0.1.0 -map_channel video.mkv -i ffmpeg
```

chang- without videos convert quickly To FFMPEG conversionwith video Fast
 and options vcodec and acodec use should you video, and audio for codec ing
 copied. are streams the that so codec, as 'copy' pass

FFMPEG With Encoding Video Size-Oriented 2-Pass 4.9

encoding. 2-pass using by size file specific a target can You

$200MB \times 192 / (8 \times 60 \times 27)$ e.g. bitrate video the Calculate math. the Do •

```
/dev/ null f- an- 1 pass- k1VΛ v:b- libxY6Y v:c- input i- ffmpeg 1 Pass •
null
6Y a:b- aac a:c- Y pass- k1VΛ v:b- libxY6Y v:c- input i- ffmpeg Y Pass •
mpY.out k
```

FFMPEG with Visualization Audio Δ.9

```
audio. visualize to used be can filter_complex
-tnempoleved/is.cicnirpakul//:sptth fo ysetruoc elpmaS//
skcirt- noitazilausiv- oidua- gepmff/ gol
xelpmoc_retlif- vaw.OIDUA_TUPNI i- gepmff
fr:◦=cb:◦◦Y=cg:◦=cr:Δ.1=mooz:◦ΛYx◦ΛY=s=epocsrotceva[a:◦]"
:[v]p◦YFvuy=tamrof.◦=fb:◦F=fg:◦=
"[tuo]◦:VΛ1:◦ΛY:FΔΛ=dap[v]
a:◦ pam- "[tuo]" pam-
k◦6Y a:b- k◦◦V v:b-
Ypm.OEDIV_TUPTUO
```

site your to SSL Adding 1◦

to where know you'll Here. - keys. your download and sslforfree.com to Go -
<https://www.thesslstore.com/knowledgebase/ssl-install/apache-keys-your-put-openssl-installation/>

certificates) (immediate ca_bundle.crt and ,private.key ,certificate.crt files: three contain
 (Inside /etc/httpd/conf.d/ssl.conf file the inside names file your Introduce
 redi- to block VirtualHost apache inside redirect a Add - block) VirtualHost your
 - "https://www.example.com/" "/" Redirect :YFY port to requests Λ◦ port rect
 SSLCer- SSLCertificateFile. via zip in downloaded files three to path the Specify
 httpd Restart - SSLCACertificateFile. tificateKeyFile.

images Free 11

<http://www.freeimages.co.uk/index.htm> <https://freeimages.com> <https://pixabay.com> <https://freepik.com>

ffmpeg with volume audio Increase 1Y

To volume. audio change to value decibel a or value decimal a use can You -
 value. negative use volume. decrease

```
output.wav "volume=0.5" -filter:a input.wav -i ffmpeg
output.wav "volume=10dB" -filter:a input.wav -i ffmpeg
```

Server NX NoMachine Configuring 13

installer The -i. rpm with it Install website. their from RPM their download First
con- can you So. complete. is installation the once away right usable it makes
and peak do also can You easily. server the to machine client the from nect
offset. required the calculate to normalization RMS

module systemd a create to How 14

you how shows example following The service. a create to want you say Let's
Proxy: MTPProto for service a create can

```
file service a //Create
/etc/systemd/system/MTPProxy.service nano
configuration) (service follows as file the //Edit
[Unit]
    Description=MTPProxy
    After=network.target

[Service]
    Type=simple
    WorkingDirectory=/opt/MTPProxy
>params <other >tag <proxy -P ><secret -S 443 -H 8888 -p nobody -u -proxyExecStart=/opt/MTPProxy
    -failureRestart=on

[Install]
    -user.targetWantedBy=multi

daemons //Reload
-reload daemon systemctl

proxy the start and //Enable
MTPProxy.service enable systemctl
MTPProxy.service start systemctl
status for check //optionally
MTPProxy.service status systemctl
```

Kubernetes and Containers 15

lets It applications. for images container run-time of creation allows Docker
cre- app the So system. the from dependencies its and app an isolate you
created is Dockerfile called file First systems. all on run will Docker with ated
the Then image. the in included be will that dependencies app's the specifying

must you image, the share to want you If build. docker with created is image
it. publish to push docker use Then tag. docker with it tag first

```
username/repo:tag 4000:80 -p run docker
```

the of port 4000 the on username to belonging repo tag from docker a Runs
container. docker the of 80 port to mapped is which machine
application web PHP simple a for Dockerfile

```
-cliphp:7.2 from  
/var/www . COPY
```

minikube and kubectl for Autocompletion 1.15

add: minikube. and kubectl for autocompletion bash enable To

```
bash) completion <(kubectl source  
bash) completion <(minikube source
```

Tips Compose Docker 2.15

a initialize To services. all under it list you sure make network, a define you If
volumes existing any remove should you scratch, from database docker
parameters: run Docker

```
exits it once container Destroy - -rm-  
background in container Run - -d  
mode interactive in container Run - -i  
name a container Give - -name-  
port container to port local Forward - -port][localpost]:[container -p
```

Ubuntu on Podman Install 3.15

default the using installed be can Podman above. and 1.20 versions Ubuntu On
manager: package

```
podman install -getapt sudo
```

Volumes Data Container 4.15

among shared be can Volumes - data persist to used Is - Volumes: Docker
the from data mount can Volumes - -v with volume a Designate - containers
system host

```
nginx 8080:80 -p `/config:/etc/nginx/conf.d`pwd -v /site:/var/www ``web1 -v web1 -name- -d r  
container the to left the on path the maps //This
```

data storing for Responsible -

data store to containers data use can containers App -

Volumes Data Mount

```
busybox web_data -name- /var/www -v /etc/nginx/conf.d/ -v create docker
```

for used only is it as image. docker this show not does ps" "docker that Note
data. storing

```
using. is web_data that volume data same the to attached is container ubuntu the in /etc/ng  
/bin/bash ubuntu web_data -from-volumes- -ti -rm- run docker
```

Benefits Volumes Data

portable are volumes Data -

safer are volumes Data -

data from containers app separate volumes Data -

small stay containers App -

Links Docker

fashion. discoverable a in network the on other each see can Containers -

on. is that node each on network a up sets Docker -

Systemd with Containers Managing 5.15

[Unit]

```
Container Podman MariaDB Description=Custom  
After=network.target
```

[Service]

Type=simple

TimeoutStartSec=5m

```
-service""mariadb rm -/usr/bin/podmanExecStartPre=
```

```
-rhel7102-registry.access.redhat.com/rhsc1/mariadb host -net- MYSQL_DATABASE=wordpress -e M
```

```
-service""mariadb stop -/usr/bin/podmanExecReload=
```

```
-service""mariadb rm -/usr/bin/podmanExecReload=
```

```
-service""mariadb stop -/usr/bin/podmanExecStop=
```

Restart=always

RestartSec=30

[Install]

```
-user.targetWantedBy=multi
```

Server Registry A Deploy 9.10

scalable stateless a is Registry server. registry docker own your create can You
are Steps images. Docker your distribute you lets that application side server
follows: as

- there. CA from files .key and .cert copy and "certs" called directory a Create
- registry run container docker running already if registry the stop
- with and directory certs the mounting options with registry the Restart
port. 443 the

```
\ -d run docker
\ -restart=always-
\ registry -name-
\ "$(pwd)"/certs:/certs -v
\ REGISTRY_HTTP_ADDR=0.0.0.0:443 -e
\ REGISTRY_HTTP_TLS_CERTIFICATE=/certs/domain.crt -e
\ REGISTRY_HTTP_TLS_KEY=/certs/domain.key -e
\ 443:443 -p
registry:2
```

- specifying by registry this from pull and to push now can clients Docker
name domain its

```
myregistry.domain.com/myimage myimage tag docker
myregistry.domain.com/myimage push docker
myregistry.domain.com/myimage pull docker
```

reg- your for authentication implement also can you that noting worth is It
For registry. the to access gain they before in log to have users so istry
Registries Docker Configuring see registry. on registry on information more

Issues Permission Directory Docker Fix 9.10

Simply rules. Selinux to due is permission with issue the time the of Most
/ svirt_sandbox_file_t Rvt- chcon this: fix to docker for context the change
dir/mounted/to/path

Volumes Docker 9.10

also can They containers. several between data sharing allow volumes Docker
way preferred the are that So host. another on later restored and up backed be
under stored are Volumes services. and containers Docker in data persist to
.volumes/docker/ lib /var/

Directory Create Cannot Error: Wordpress 9.10

same the with group a create to need you Docker. using when error the fix To
while group the to permissions rw give and container the on host the in as ID
below): (Like group the to debian) on (apache www-data adding

```
\ apache 48 -g groupadd RUN
\ -datawww apache -G usermod &&
. 775 -R chmod &&
```

Networks External with Communication Enable 10.10

Docker. In bridge. is create network podman with created network default The
contain- let to forwarding IP enable to have you Podman. to similar acts which
iptables net.ipv4.conf.all.forwarding=1 sysctl world. outside the to connect ers
ACCEPT FORWARD -P

ping Install 11.10

run ping. install To

```
-pingiputils install -getapt
```

Host the and Containers Pod between Communication 12.10

creating when Then. it. creating when pod the on mapping port specify First.
port. host the mapped you which to port the expose container. the

```
8080:80 -p -podtest -name- create pod podman
nginx -podtest -pod- 80 -expose- web -name- -tid -rm- run podman
```

Proxy Reverse via Apps Docker Expose 13.10

internal an from services web your expose to you allows that technology The
feature a via is balancing load or security for e.g. world outside the to network
A Apache. including servers web popular by supported reverse-proxy called
follows: configuration simple

```
server backend to request incoming of mapping #Allows
"http://www.example.com/" "/" ProxyPass
```

```
proxy reverse the to point to server backend from headers Location: of modification #Allows
"http://www.example.com/" "/" ProxyPassReverse
```

balancer. a inside defined be can they ,(container) service a of replicas several are there

```

>balancer://cluster <Proxy
1 #worker http://localhost:8080 BalancerMember
2 #worker http://localhost:8081 BalancerMember
load distribute to #How lbmethod=bytraffice ProxySet
></Proxy

"balancer://cluster" "/" ProxyPass
"balancer://cluster" "/" ProxyPassReverse

```

Service PHP-FPM Containerized A Up Set to How 14.10

and httpd for service a create we principle. single-responsibility the on Based
specify I container, httpd the to add I that host virtual the In php-fpm. for one
scripts. php process to proxy fcgi a

```

-compose.yml:docker the is #This
    '0.3' version:
    services:
        fpm:
            -fpmphp:7.4 image:
            volumes:
                ./usr/local/apache2/htdocs -
                web:
                    . build:
                    ports:
                        8000:80 -
                    volumes:
                        ./usr/local/apache2/htdocs -
                    volumes:
                        {} webroot:

```

```

container httpd the to copy we that file host virtual the of content the 's#Here
    >*:80 <VirtualHost
    -host2.example.com:webmaster@dummy ServerAdmin
    "/usr/local/apache2/htdocs" DocumentRoot
    fpm ServerName
    -error.log"logs/fpm ErrorLog
fcgi://localhost:9000/usr/local/apache2/htdocs/$1 ~/(.*\.php/(.*))$ ProxyPassMatch
    index.php /index.php DirectoryIndex
    ></VirtualHost

```

```

container httpd the for Dockerfile the have we ,#Then
    -alpinehttpd:2.4 FROM

```

```

update apk RUN

-fpmphp nano add apk RUN

/usr/local/apache2/htdocs . COPY

/usr/local/apache2/htdocs WORKDIR

module fcgi #Enable
/usr/local/apache2/conf/httpd.conf 'modules/mod_proxy.so@ proxy_module modules/mod_proxy.so
/usr/local/apache2/conf/httpd.conf 'modules/mod_proxy_fcgi.so@ proxy_fcgi_module modules/mod

host virtual #Enable
/usr/local/apache2/conf/httpd.conf >> conf/extra/vhost.conf" "Include echo RUN
/usr/local/apache2/conf/extra ./vhost.conf COPY

```

Way) (Easier Apache with PHP-FPM Up Set ١٥.١٥

impor- two contains that server the to httpd.conf modified a copy only we Here
 mod_proxy_fcgi and mod_proxy (uncommented enabled has it First. changes: tant
 server. fpm the to scripts php sends that block IfModule an has it Second. .(

```

modules/mod_proxy.so proxy_module LoadModule
modules/mod_proxy_fcgi.so proxy_fcgi_module LoadModule

>proxy_module <IfModule
fcgi://fpm:9000/usr/local/apache2/htdocs/$1 ^/(.*\.php(/.*)?)$ ProxyPassMatch
index.php /index.php DirectoryIndex
></IfModule

```

FPM-HTTPD-Alpine a Create ١٦.١٥

process a need we container. same the on httpd and fpm run To Important:
 supervisor under files conf httpd and fpm put We supervisord. like manager
 inside fpm for socket unix using that realize to important is it Also directory.
 on connection TCP Use complications. permission to due hard is container a
 steps: the are Here instead. container local the

```

#Dockerfile
-alpinehttpd:2.4 FROM

```

```

\ update apk RUN

```

```
supervisor -fpmphp php add apk &&
```

```
    /usr/local/apache2/conf/ httpd.conf COPY  
/etc/supervisor/supervisord.conf supervisor/supervisord.conf COPY  
    /etc/supervisor/conf.d/ supervisor/conf.d/ COPY
```

```
    /usr/local/apache2/htdocs . COPY
```

```
"/etc/supervisor/supervisord.conf"] ,-c"" ,-n","["supervisord" CMD
```

```
#fpm.conf
```

```
    -fpm] [program:php  
-nodaemonize- -fpm7php = command  
-fpm.conf/etc/php/7.0/fpm/php -config-fpm-#  
    autostart=true  
    autorestart=true  
    priority=5  
    stdout_logfile=/dev/stdout  
    stdout_logfile_maxbytes=0  
    stderr_logfile=/dev/stderr  
    stderr_logfile_maxbytes=0
```

```
#apache.conf
```

```
    [program:apache]  
-DFOREGROUND command=httpd  
    autostart=true  
    autorestart=true  
    priority=10  
    startretries=1  
    startsecs=1  
    stdout_logfile=/dev/stdout  
    stdout_logfile_maxbytes=0  
    stderr_logfile=/dev/stderr  
    stderr_logfile_maxbytes=0
```

```
httpd.conf to this #Add
```

```

        >proxy_module <IfModule
            >"\.php$" <FilesMatch          #
            "proxy:unix:/var/run/fpm.sock|fcgi://127.1.0.0/" #SetHandler

                                ></FilesMatch      #
fcgi://127.1:9000.0.0/usr/local/apache2/htdocs/$1 ^/(.*\.php(/.*)?)$ ProxyPassMatch

                                index.php /index.php DirectoryIndex

                                ></IfModule

```

NGINX for Service FPM Containerized a Up Set 1V.10

it copy then and nginx for default.conf create to is this do to way easiest The
for configuration proxy contain will content The default.conf. default the over
this: like scripts php the

```

        block server the inside present be must #This
        { \.php$ ~ location
        /usr/local/apache2/htdocs;          root
        fpm:9000;      fastcgi_pass
        index.php;    fastcgi_index
        /scripts$fastcgi_script_name; SCRIPT_FILENAME fastcgi_param
        fastcgi_params;          include
        }

```

file: docker-compose the Here's And

```

        '0.3' version:
        services:
            fpm:
                -fpmphp:7.4 image:
                volumes:
                ../usr/local/apache2/htdocs -
                web:
                . build:
                ports:
                8000:80 -
                volumes:
                ../usr/local/apache2/htdocs -
                volumes:
                {} webroot:

```

Podman with YAML Pod Generate 18.10

vol- and variables environment different with manually created is that Pod A First, podman. by played later be to file yaml a as with exported be can umes, container mariadb a and container wordpress A e.g. containers your create file. yaml the generate Then variables. environment database its with

```
pod. a #Create
,8080:805678:5678 -publish- speechbot -name- create pod podman
pod. the in containers different create ,#First
example: an 's#Here
#rabbitmq
rabbitmq:3 -pod=speechbot- rabbitmq -name- -rm- run podman
#app
-botregistry.gitlab.com/powergame/speech -pod=speechbot- `/log:/app/log`pwd -v `/session:/ap
#db
mariadb:10.5 speechbot -pod- speech_dbvol:/var/lib/mysql -v MYSQL_PASSWORD=aUbX0#91 -e MYSQL
```

```
YAML a to pod the #Export
speechbot.yaml > speechbot kube generate podman
```

```
again pod the #Launch
speechbot.yaml kube play podman
```

```
definition YAML #Create
mypod.yaml > mypod kube generate podman
```

```
yaml Pod using #Deploy
mypod.yaml kube play podman
```

to subject are they as removed be can yaml generated the of parts Some that Note variables. environment some like issues cause might and change host the default by because case this in database for work not does localhost local- of instead name pod the Use container. each in name pod the is name database. the to connect to host

VSCode with App Python Containerized Debugging 19.10

to need you Then, image. container the in installed module ptvsd need You of port and address the to it bind and script python your in module the import to attach then and debugging start to need you Code, VS in Then, debugger. the directory .vscode inside launch.json a need will you that. For debugger. remote content: this with


```

    }
    , "°.۲.°" : "noisrev"
  ] : "snoitarugifnoc"
}
, "hcattA etomeR :nohtyP" : "eman"
, "nohtyp" : "epyt"
, "hcatta" : "tseuger"
, "ΛΥ&Δ" : "trop"
, "١.°.°.۷۲١" : "tsoh"
] : "sgnippaMhtap"
}
, "{redloFecapskrow}$" : "tooRlacol"
"ppa/" : "tooRetomer"
{
  [
    {
      [
        {

```

Mac on Client Remote Podman ۲۰.۱۵

control to Mac on client Podman up set to taken be should steps following The machine. Linux a on running instance Podman remote a

- podman install brew •
- user systemctl) server Linux the on service systemd podman Enable •
podman.socket) –now enable
- (sudo in logged not is user the when work to socket the for linger Enable •
(\$USER enable–linger loginctl
- info) –remote (podman listening is socket podman Verify •
- now enable systemctl (sudo server sshd up set server. remote the On •
sshd)
- to ssh-copy-id mac’s use then and (ssh-keygen) client on ssh up Set •
server. remote the to on key public generated the copy
- baude add connection system podman) server on connection a Add •
/run/۱:۱۲۳۴.۱۲۲.۱۶۸.john@۱۹۲//:ssh id_rsa\ssh.\johndoe\Users\c identity
(sock.podman/podman/۱۰۰۰/user
- info) (podman Test •
- remotely containers manage to ready is Podman •

and Hub Docker for Workflow CI Push and Build Up Set 21.18 GHCR

GitHub for One .github/workflows: under extension .yaml with files two Create the of stages push and build The Hub. Docker for one and Registry Container uses one each and DockerHub from different slightly is GitHub for workflow be to need secrets repo-level work. workflows the Before actions. different of example working a section, following the In settings. project the in created provided: is Hub Docker and GitHub

```

oi.rchg ot hsup dna dliub ot elpmxE//
  IC egaml rekcoD :eman

      [hsup] :no
      :tseuqer_llup #
[  retsam  ] :sehcnarb  #

      :sboj

      :hsuP- dliuB- rekcoD

      tsetal-utnubu :no- snur

      :spets
      | :nur -
eht yb dereggirt yllufsseccus saw boj ehT" ohce
      ".tneve {{ eman_tneve.buhtig }}$
detsoh {{ so.rennur }}$ no gninnur si boJ" ohce
      ".buHtiG yb
      ".{{ fer.buhtig }}$ si eman hcnarB" ohce
:boj eht dereggirt taht timmoC" ohce
      "AHS_BUHTIG$

      oper eht tuo kcehC :eman -
      Yv@tuokcehc/snoitca :sesu
      :nur -
denolc neeb sah {{ yrotisoper.buhtig }}$" ohce
      ".rennur eht ot

yrtsiger reniatnoC buHtiG ot hsuP dna dliuB :eman -
Δv@hsup- dliub- rekcod/tnellecxe- srehtims-rm :sesu
      :htiw
      otorpeniledam :egami
      tsetal :sgat
      oi.rchg :yrtsiger

```

```

        elifrekcoD :elifrekcod
    {{ EMANRESU_REKCOD.sterces }}$ :emanresu
    {{ TAP_REKCOD.sterces }}$ :drowssap

    buH rekcoD ot hsup dna dliub ot elpmaxE//
        IC egaml buH rekcoD :eman

        [hsup] :no

        :sboj
        :hsuP- dliuB- buHrekcoD
        tsetal- utnubu :no- snur
        :spets
        edoC yrotisopeR tuO kcehc :eman -
        Yv@tuokcehc/snoitca :sesu
    eht ot denolc {{ yrotisoper.buhtig }}$ " ohce :nur -
        ".rennur

        buH rekcoD ot nl goL :eman -
        Iv@noitca- nigol/rekcod :sesu
        :htiw
    {{ EMANRESU_BUHREKCOD.sterces }}$ :emanresu
    {{ TAP_BUHREKCOD.sterces }}$ :drowssap

    buH rekcoD ot hsuP dna dliuB :eman -
        Yv@noitca-hsup- dliub/rekcod :sesu
        :htiw
        eurt :hsup
    /{{ EMANRESU_BUHREKCOD.sterces }}$ :sgat
        tsetal:otorpeniledam

```

Server Remote to Containers Deploy To Action Docker Up Set ୧୧.୧୫

action such One GitHub. on actions of couple a using achieved be can This
 con- a establishes It djnotes/github-action-ssh-docker-compose@master. is
 direc- a to directory current the of contents deploys server. remote to nection
 it. inside docker-compose runs then and server remote the on tory

```

        egasu elpmaxE#
        revres ot yolpeD :eman -
    retsam@esopmoc- rekcod- hss- noitca- buhtig/setonjd :sesu
        :htiw
        moc.elpmaxe :tsoh_hss
    {{ YEK_ETAVIRP_HSS.sterces }}$ :yek_etavirp_hss
    {{ RESU_HSS.sterces }}$ :resu_hss
        jorpym :xiferp_esopmoc_rekcod

```

ΔΕΥΣΤΕ : trop_hss

for beforehand created be must pairs key public/private appropriate that Note
key public the (only server remote the to added and server remote the on user a
private the with server the to connect can they that so there) added be must
server. remote the to secrets GitHub in provided key

Backend Podman with Compose Docker 23.10

on Compose Docker for backend a as used be can 0.3 version of as Podman
be can it 0.3 Podman of As Docker. install to needing without systems Linux
Pod- with work docker-compose make to Setup Podman. rootless with used
registry, container GitHub to push and build simply to order In ===== man.
steps: these follow

```
-stdin-password- phanatic -username- ghcr.io login docker | $PAT echo  
ghcr.io/phanatic/app:1.0.0 app tag docker  
ghcr.io/phanatic/app:1.0.0 push docker
```

Podman Install •

Compose Docker Install •

user The podman.socket. start --user systemctl socket: Podman Enable •
user non-root as projects running allows switch

json/application :Type-Content" H- socket-unix-- curl connection: Check •
_ping/localhost//:http "

SELinux) (disable • setenforce do to have might You (Optional) •

directory project the inside up docker-compose run •

podman/1002/user/run///:unix=DOCKER_HOST variable environmental Set •
sock.podman/

Kubernetes to Compose Docker Convert 24.10

use can you components, Kubernetes to docker-compose.yaml a convert To
steps: the are Here Kompose.

```
brew. using installed be can it Mac On kompose. Install -1  
convert kompose Run 2.  
. -f apply kubect1 files: generated the Apply 3.
```

Pods two between volume a Share ୧୫.୧୫

/home/docker/pod-volume volume and create and ssh" "minikube do First, another create and it delete Then, it. apply and pod share-pod define then and the to share-pod by made changes the see will You it. run and check-pod pod check-pod. inside volume

```
lmay.dop-erahs fo noitinifeD#
lv :noisreVipa
doP :dnik
:atadatem
dop-erahs :eman
:slebal
dop-erahs :ppa
:ceps
:semulov
emulov-tsoh :eman -
:htaPtsoh
emulov-dop/rekcod/emoh/ :htap
:sreniatnoc
xnign :egami -
xnign :eman
:strop
oA :troPreniatnoc -
:stnuoMemulov
lmth/xnign/erahs/rsu/ :htaPtnuom -
emulov-tsoh :eman
naibed :egami -
naibed :eman
:stnuoMemulov
lov-tsoh/ :htaPtnuom -
emulov-tsoh :eman
noitcudortnl<b>"\ ftnirp" ,"c-" ,"hs/nib/"] :dnammoc
:lmth.xedni/lov-tsoh/ << "<rb><b>setenrebuK ot
["o6 peels
```

```
lmay.dop-kcehc fo noitinifeD #
lv :noisreVipa
doP :dnik
:atadatem
dop-kcehc :eman
:slebal
dop-erahs :ppa
:ceps
:semulov
emulov-kcehc :eman -
:htaPtsoh
```

```

emulov-dop/rekcod/emoh/ :htap
:sreniatnoc
xnign :egami -
xnign :eman
:strop
oΛ :troPreniatnoc -
:stnuoMemulov
lmth/xnign/erahs/rsu/ :htaPtnuom -
emulov-kcehc :eman

```

macOS on Podman with Docker Replace ୧୫.୧୦

- brew with podman Install
- myvm" init machine "podman Run
- myvm" start machine "podman Run
- myvm" ssh machine "podman Run
- the with vm the to mounted is directory home host's vℱ.୧, podman of As padding by customized be can This .\$HOME:\$HOME i.e. name same -- init machine podman e.g. command, init the to option --volume the vm୦୧ src:/src/\$HOME volume
- available be will socket Podman the initialized, is machine podman Once vm_name/machine/podman/containers/share/local./mhd/Users ///: unix the at /.zshrc to it add and DOCKER_HOST as it Export .sock.podman/
- volume host and forwarding port Both it. run and docker-compose Install directory home If Example: file. compose the in work will mount bing created also is structure directory /home/user୧ the then /home/user୧, is the inside from file or directory a vm, the inside from Then VM. the inside container. the into mounted be can directory mounted

Ingress ୧୮.୧୦

typ- cluster, a in services the to access external manages that object API "An name- and termination, SSL balancing, load provide may Ingress HTTP. ically hosting" virtual based

Minikube on Set-up ୧.୧୮.୧୦

- ingress enable addons minikube Add-On Minikube Enable
- httpd=image-- demo deployment create kubectl server web simple Create Λ୦=port--

demo deployment expose kubectl service: Expose •
 class-- localhost-demo ingress create kubectl resource: Ingress Create •
 "Λ◦:demo=*/me.localdev.demo"=rule-- nginx=
 namespace-- forward-port kubectl controller ingress to port local a Forward •
 Λ◦Λ◦:Λ◦ controller-nginx-ingress/service nginx-ingress=

FFMPEG 16

ex- changing and mp3 to files webm of bunch a Converting 1.16
 tensions

[abcdxxx].webm, in end that files webm of group a over iterates code following The
 extension. mp3 the adds and part [abcdxxx].webm the removes

```
do *.webm; in file for
filename="${file%.webm}"
\[*\]}" filename="${filename%
```

```
"aramam/${filename}.mp3" $file -i ffmpeg
done
```

example this in file typical a because filename after space a is there Note
 [VNZuTrvXfPE].webm". Aramam - Tatlıses "İbrahim like looked
<https://stackoverflow.com/a/38728142/2009148>): to (According filter drawtext the using done is This

```
"C:\test.mp4" -i ffmpeg
:10--th':x=10:y=Hhere text 'Place"drawtext=text=-vf
fontfile=/path/to/font.ttf:fontsize=12:fontcolor=white:
shadowcolor=black:shadowx=5:shadowy=5"
-watermark.mp4"C:\test
```

filters. text multiple use to example for filters. multiple separate to , Use

colors primary of intensity Modifies ffmpeg with filters colorbalance Adding
 gm, rm, (shadows): bs gs, rs. Options: frames. input of blue) and green, (red,
 (highlights) bh gh, rh, (midtones): bm

```
//example
output.mp4 "colorbalance=rs=.3" -vf input.mp4 -i ffmpeg
```

gimin, rimin, Options: levels. using frames input video Adjust Levels Color
 Example: etc. aimin, bimin,

```
darker output video //Makde
"colorlevels=rimin=0.058:gimin=0.058:bimin=0.058" -vf input.mp4 -i ffmpeg
```

File Video one from Clips Instagram Create to Code Bash

```
done output$ss.mp4; 60 -t $ss -ss "colorlevels=rimin=0.058:gimin=0.058:bimin=0.058" -vf inpu
```

becomes: then command My

```
out.mp4 -th:fontsize=30:fontfile=./font.ttf"-th-tw:y=H':x=W© Haghgoo 'Mehdi"drawtext=text=
```

IELTS On 1V

speak- and writing, reading, listening, in skills covers test The Skills of Types
<https://www.ielts.org/about-> at takers test for available resources good has website IELTS The ing.
test. the of aspects different covering the-test/sample-test-questions

extension PHP a Creating 1A

code native of capabilities the code PHP give to used often are extensions PHP
C/C++). in written (often

extension PHP a create to Steps

Connections Alsa with Working 19

then and ports input-output see to -o aconnect and -i aconnect invoke First
out". in "acconnect with like you ports two the connect

Ardour 20

Setup MIDI Ardour 1.20

```
track. MIDI a add First -1  
-Multi.Yoshimi select ,instrument for ,track MIDI the adding When -2  
sound. the change to edit select and instrument new the -clickright ,already) Fader a see yo  
trackname_in. to midi_capture_1 connect Then Inputs. select and track the -clickright ,keybo  
-Entry.Step select and button record red the click right ,track the to keyboard from record
```

pack- (ardour&-backend-alsa Ardour for backend ALSA install you sure Make
ALSA. with easily work to age)

Plugins VST ۲۱

/usr/local/lib64/lxvst - Linux: on locations following the in stored are plugins VST
etc. - /usr/local/lib/vst - /usr/lib64/lxvst - /usr/local/lib/lxvst -

Carla With Working ۲۲

to plugin file Audio an add Carla, with file audio an play To File WAV A Play
Switch connect->System. select and plugin the right-click Then canvas. the
file! the play and tab transport the to

PHP For ZMQ ۲۳

<http://zguide.zeromq.org/php:all>. on framework messaging this for documentation good a is There

PHP for RabbitMQ ۲۴

PHP. for bindings composer with framework messaging another is RabbitMQ
ZMQ. to function in similar be to seems It

Server OpenVPN an Building ۲۵

```
follows: as are Steps
easyrsa ,openvpn Install -1
(/usr/share/doc/openvpn/examples) examples OpenVPN Check -2
/etc/openvpn/server.conf to server.conf.gz copy -3
change: server.conf In -4
2048.pem dh
//uncomment -gateway..."redirect push
//uncomment ..." DNS -option"dhcp push
//uncomment ..." DNS -option"dhcp push
nobody user
nogroup group
-5
/etc/sysctl.conf in net.ipv4.ipv4_forward uncomment
Firewall -6
ufw use
ssh allow ufw
1194/udp allow ufw
```

```

enable ufw
/etc/default/ufw File -7
"ACCEPT" = DEFAULT_FORWARD_POLICY
/etc/ufw/before.rules File -8
rules nat Add
[0.0] ACCEPT :POSTROUTING
MASQUERADE -j eth0 -o 0/8.0.8.10 -s POSTROUTING -A
COMMIT

Keys Create -9
authority certificate
-rsa/usr/share/easy cd
/etc/openvpn -rsa/usr/share/easy -r cp
-rsa/keys/etc/openvpn/easy mkdir
-rsa/vars/etc/openvpn/easy vi
#Edit "US" = KEY_COUNTRY export
KEY... export
this #Remember "server" = KEY_NAEM export
file pem Create -10
2048 /etc/openvpn/dh2048.pem -out dhparam openssl
-rsa/etc/openvpn/easy cd -11
./vars .

-all./clean
-ca./build
vars in gave we what is #server server -server-key./build
12.
-rsa/keys/etc/openvpn/easy cd
/etc/openvpn ca.crt server.key server.crt cp
/etc/openvpn cd
ls
service Start -13
start openvpn service

keys and config client Create -14
/etc/openvpn/server.conf vi
recommended not is duplicate_cn uncomment
-rsa/etc/openvpn/easy cd -15
server -key./build
stuff client manage to directory a Create -16
~/client mkdir
-files-config/usr/share/doc/openvpn/examples/sample cd
~/client client.conf cp
pineapple.ovpn client.conf mv
needed: keys
ca.crt client.key client.crt

```

```

-rsa/keys/etc/openvpn/easy cd
~/client client.key client.crt ca.crt cp
~/client cd
ip) (vps server of server ip #Get
pineapple.ovpn #in
1194 ip] [server remote
nogroup user and nobody user #uncomment
ca.crt #ca
client.crt #cert
client.key #key
file) unified a (create files their to pointing of instead itself file the to params ssl/tls
pineapple.ovpn >> >"<ca" echo
pineapple.ovpn >> ca.crt cat
>pineapple.ovpn> >"</ca" echo
pineapple.ovpn >> >"<cert" echo
pineapple.ovpn >> client.crt cat
>pineapple.ovpn> >"</cert" echo

pineapple.ovpn >> >"<key" echo
pineapple.ovpn >> client.key cat
pineapple.ovpn >> >"</key" echo

client the Connect -17
connect to it use and client to pineapple.ovpn scp

```

Gradle to proxy socks Add ୧୫

gradle.properties to following the Add

```
-DsocksProxyPort=9150 -DsocksProxyHost=127.1.0.0org.gradle.jvmargs=
```

APIs Free ୧୮

RapiAPI: from APIs free useful of list a is following The

```
-v1.p.rapidapi.com/https://restcountries : countries) about (Information Countries REST
-v1-countrieshttps://rapidapi.com/apilayernet/api/rest Documentation:
```

Fixes Selinux ۲۸

use server, Selinux-enabled a on website your for root non-default a use To
commands: following the

```
"/srv/myweb(/.*)?" httpd_sys_content_t -t -a fcontext semanage #  
files the to context new the apply will #This /srv/myweb -v -R restorecon #
```

fonts web Using ۲۹

defined the use then and them define first files. CSS in fonts web specify To
family: font

```
-face{@font  
"Vazir"; -family:font  
-content/themes/twentytwenty/assets/fonts/vazir/Vazir.woff")url("/wp src:  
}  
  
body{  
"Vazir" -family:font  
}
```

WordPress ۳۰

CPanel in Setup Email ۱.۳۰

pkim and dmarc spf, suggested up set to used be can section Reliability Email
deliverability. email ensure to records

Themes and Plugins ۲.۳۰

Gallery and Photos ۱.۲.۳۰

PhotoSwipe •

Page Home on Hidden Header/Footer Elementor ۳.۳۰

then and page the of mode edit the to go then fine. are conditions display If
than rather Default to it set and Layout Page find Next. settings. page open
Width. Full or Canvas

Settings WoodMart ۴.۳۰

php.config-wp in () set_time_limit calling by (done limit time PHP •

plugin OptionTree using Metaboxes Custom Add ۵.۳۰

ht_restaurant of types post for box meta custom a creates file functions.php 'stheme the in
); 'custom_meta_boxes , 'admin_init add_action(

```
{ custom_meta_boxes() function  
  
    array( = $my_meta_box  
    , 'my_meta_box >=      ''id  
    , 'Box Meta 'My >=      ''title  
    , '' >=      ''desc  
    ,) 'ht_restaurant array( >=      ''pages  
    , 'normal >=      ''context  
    , 'high >=      ''priority  
    array( >=      ''fields  
        array(  
        , 'background >=      ''id  
        , 'Background >=      ''label  
        , '' >=      ''desc  
        , '' >=      ''std  
        , 'background >=      ''type  
        , '' >=      ''class  
        array() >=      ''choices  
        )  
    )  
    );  
  
); $my_meta_box ot_register_meta_box(  
  
}
```

Elementor in Forms Register / Login Create ۶.۳۰

add will which plugin, Pack Actions the install to need you work. to this For
fields. supported and functionalities related login-register different

Site to Verification SMS Add ۷.۳۰

Code: 'Hello like template a create and panel smsir in send Quick to Go •
#Code#'

