

	Fedora Server
[1]	[fedora]

```
[root@localhost ~]# useradd fedora
[root@localhost ~]# passwd fedora
Changing password for user fedora.
New UNIX password:          # input any password you'd like to set
Retype new UNIX password:   # confirm
passwd: all authentication tokens updated successfully.
```

[2]	root	[su]
-----	------	------

```
localhost login: fedora      # login username
password:                   # input user password
[fedora@localhost ~]$ su -   # switch to root
Password:                   # input root password
[root@localhost ~]#         # just switched to root
```

[3]	[su] [wheel]	[su]
-----	-----------------	------

```
[root@localhost ~]# usermod -aG wheel fedora
[root@localhost ~]# vi /etc/pam.d/su
#%PAM-1.0
auth            sufficient      pam_rootok.so
# Uncomment the following line to implicitly trust users in the "wheel" group.
#auth          sufficient      pam_wheel.so trust use_uid
# Uncomment the following line to require a user to be in the "wheel" group.
# uncomment the following line
auth            required        pam_wheel.so use_uid
auth            substack        system-auth
auth            include         postlogin
account         sufficient      pam_succeed_if.so uid = 0 use_uid quiet
account         include         system-auth
password        include         system-auth
session         include         system-auth
```

```
session      include      postlogin
session      optional    pam_xauth.so
```

```
# verify settings with a user that is not in allowed group
[redhat@localhost ~]$ su -
Password:
su: Permission denied      # denied normally
```

[4]

```
# remove a user [fedora] (only removed user account)
[root@localhost ~]# userdel fedora
# remove a user [fedora] (removed user account and his home directory both)
[root@localhost ~]# userdel -r fedora
```

SELinux

[1] FireWall

```
[root@localhost ~]# systemctl status firewalld
* firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; enabled; vendor>
   Active: active (running) since Thu 2021-11-04 08:41:32 JST; 5min ago
     Docs: man:firewalld(1)
  Main PID: 762 (firewalld)
    Tasks: 2 (limit: 4647)
   Memory: 34.3M
      CPU: 388ms
   CGroup: /system.slice/firewalld.service
           +-+ 762 /usr/bin/python3 -s /usr/sbin/firewalld --nofork --nopid

# [Active: active (running) ***] means firewalld is running now
```

[2] FireWall FireWall

CentOS Stream 8

Fedora 35 Firewalld

[3] FireWall Machines

FireWall

Fedora

FireV

```
# stop service
[root@localhost ~]# systemctl stop firewalld
```

```
# disable service
[root@localhost ~]# systemctl disable firewalld
Removed /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
```

SELinux

[4] SELinux (Security-Enhanced Linux)

```
[root@localhost ~]# getenforce
Enforcing # SELinux is enabled
```

[5] SELinux SELinux SELinux
SELinux CentOS Stream 8
Fedora 35 SELinux Enforcing

[6] SELinux SELinux

```
# disable SELinux
[root@localhost ~]# grubby --update-kernel ALL --args selinux=0
# restart computer to apply changes
[root@localhost ~]# reboot
# if falling back to enable, run like follows
[root@localhost ~]# grubby --update-kernel ALL --remove-args selinux
```

[1] IP
[enp1s0]

```
# HostName
[root@localhost ~]# hostnamectl set-hostname dlp.srv.world
# display devices
[root@localhost ~]# nmcli device
DEVICE TYPE STATE CONNECTION
enp1s0 ethernet connected enp1s0
lo loopback unmanaged --

# IPv4
```

```

[root@localhost ~]# nmcli connection modify enp1s0 ipv4.addresses 10.0.0.30/24
#
[root@localhost ~]# nmcli connection modify enp1s0 ipv4.gateway 10.0.0.1
#   DNS
#       DNS       → ipv4.dns "10.0.0.10 10.0.0.11 10.0.0.12"
[root@localhost ~]# nmcli connection modify enp1s0 ipv4.dns 10.0.0.10
#   DNS
[root@localhost ~]# nmcli connection modify enp1s0 ipv4.dns-search srv.world
#       [auto]   DHCP
[root@localhost ~]# nmcli connection modify enp1s0 ipv4.method manual
#
[root@localhost ~]# nmcli connection down enp1s0; nmcli connection up enp1s0
Connection 'enp1s0' successfully deactivated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/1)
Connection successfully activated (D-Bus active path:
/org/freedesktop/NetworkManager/ActiveConnection/2)

#
[root@localhost ~]# nmcli device show enp1s0
GENERAL. DEVICE:                enp1s0
GENERAL. TYPE:                  ethernet
GENERAL. HWADDR:                52:54:00:D3:14:49
GENERAL. MTU:                   1500
GENERAL. STATE:                 100 (connected)
GENERAL. CONNECTION:            enp1s0
GENERAL. CON- PATH:              /org/freedesktop/NetworkManager/ActiveC>
WIRED- PROPERTIES. CARRIER:    on
IP4. ADDRESS[ 1]:               10.0.0.30/24
IP4. GATEWAY:                   10.0.0.1
IP4. ROUTE[ 1]:                 dst = 10.0.0.0/24, nh = 0.0.0.0, mt = 1>
IP4. ROUTE[ 2]:                 dst = 0.0.0.0/0, nh = 10.0.0.1, mt = 100
IP4. DNS[ 1]:                   10.0.0.10
IP4. SEARCHES[ 1]:              srv.world
IP6. ADDRESS[ 1]:               fe80::5054:ff:fed3:1449/64
IP6. GATEWAY:                   --
IP6. ROUTE[ 1]:                 dst = fe80::/64, nh = ::, mt = 100

#
[root@localhost ~]# ip address show

```

```

1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen
1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp1s0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default
qlen 1000
    link/ether 52:54:00:d3:14:49 brd ff:ff:ff:ff:ff:ff
    inet 10.0.0.30/24 brd 10.0.0.255 scope global noprefixroute enp1s0
        valid_lft forever preferred_lft forever
    inet6 fe80::5054:ff:fed3:1449/64 scope link noprefixroute
        valid_lft forever preferred_lft forever

```

[1]

```

#
# [--all]
# [--no-pager]      [less/more]
[root@dlp ~]# systemctl -t service

```

UNIT	LOAD	ACTIVE	SUB	DESCRIPTION	>
abrt-journal-core.service	loaded	active	running	Creates ABRT problem	>
abrt-oops.service	loaded	active	running	ABRT kernel log watch	>
abrt-xorg.service	loaded	active	running	ABRT Xorg log watch	>
abrttd.service	loaded	active	running	ABRT Automated Bug R	>
atd.service	loaded	active	running	Deferred execution	s>
.....					
.....					
systemd-zram-setup@zram0.service	loaded	active	exited	Create swap on /dev/	>
user-runtime-dir@0.service	loaded	active	exited	User Runtime Directo	>
user@0.service	loaded	active	running	User Manager for UID	>

```

LOAD    = Reflects whether the unit definition was properly loaded.
ACTIVE  = The high-level unit activation state, i.e. generalization of SUB.
SUB     = The low-level unit activation state, values depend on unit type.

```

54 loaded units listed. Pass --all to see loaded but inactive units, too.
To show all installed unit files use 'systemctl list-unit-files'.

```
#
[root@dlp ~]# systemctl list-unit-files -t service
```

UNIT FILE	STATE	VENDOR PRESET
abrt-journal-core.service	enabled	enabled
abrt-oops.service	enabled	enabled
abrt-pstoreoops.service	disabled	disabled
abrt-vmcore.service	enabled	enabled
abrt-xorg.service	enabled	enabled
abrttd.service	enabled	enabled
arp-ethers.service	disabled	disabled
atd.service	enabled	enabled
auditd.service	enabled	enabled
.....		
.....		
udisks2.service	enabled	enabled
usb_modeswitch@.service	static	-
user-runtime-dir@.service	static	-
user@.service	static	-
wpa_supplicant.service	disabled	disabled

219 unit files listed.

[2]

smartd

```
[root@dlp ~]# systemctl disable --now smartd
```

Fedora Server

Fedora Server

[1]

```
[root@dlp ~]# dnf -y upgrade
Dependencies resolved.
```

=====

Package	Arch	Version	Repo	Size
=====				
Installing:				
kernel	x86_64	5.14.14-300.fc35	updates	65 k
Upgrading:				
NetworkManager	x86_64	1:1.32.12-2.fc35	updates	2.3 M
NetworkManager-bluetooth	x86_64	1:1.32.12-2.fc35	updates	52 k
NetworkManager-libnm	x86_64	1:1.32.12-2.fc35	updates	1.7 M
NetworkManager-team	x86_64	1:1.32.12-2.fc35	updates	30 k
NetworkManager-wifi	x86_64	1:1.32.12-2.fc35	updates	116 k
NetworkManager-wwan	x86_64	1:1.32.12-2.fc35	updates	58 k
alsa-sof-firmware	noarch	1.9-1.fc35	updates	580 k
bc	x86_64	1.07.1-14.fc35	updates	118 k
bluez	x86_64	5.62-1.fc35	updates	973 k
bluez-libs	x86_64	5.62-1.fc35	updates	84 k
btrfs-progs	x86_64	5.14.2-1.fc35	updates	962 k
checkpolicy	x86_64	3.3-1.fc35	updates	338 k
cockpit	x86_64	256-1.fc35	updates	44 k
cockpit-bridge	x86_64	256-1.fc35	updates	490 k
cockpit-networkmanager	noarch	256-1.fc35	updates	523 k
cockpit-packagekit	noarch	256-1.fc35	updates	572 k
cockpit-selinux	noarch	256-1.fc35	updates	226 k
cockpit-storaged	noarch	256-1.fc35	updates	584 k
cockpit-system	noarch	256-1.fc35	updates	2.4 M
cockpit-ws	x86_64	256-1.fc35	updates	1.3 M
curl	x86_64	7.79.1-1.fc35	updates	310 k
dnf-plugins-core	noarch	4.0.24-1.fc35	updates	35 k
dnsmasq	x86_64	2.86-3.fc35	updates	333 k
dracut	x86_64	055-6.fc35	updates	347 k
dracut-config-rescue	x86_64	055-6.fc35	updates	12 k
dracut-network	x86_64	055-6.fc35	updates	61 k
dracut-squash	x86_64	055-6.fc35	updates	12 k
fedora-logos	noarch	35.0.0-2.fc35	updates	1.3 M
gdb-headless	x86_64	11.1-2.fc35	updates	4.3 M
gdbm-libs	x86_64	1:1.22-1.fc35	updates	58 k
gnupg2	x86_64	2.3.3-1.fc35	updates	2.5 M
hwdata	noarch	0.352-1.fc35	updates	1.5 M
iw1100-firmware	noarch	39.31.5.1-126.fc35	updates	134 k

.....

.....

Installed:

python3-tracer-0.7.6-1.fc34.noarch

reportd-0.7.4-4.fc34.x86_64

sscg-2.6.2-5.fc34.x86_64

tpm2-tools-5.0-2.fc34.x86_64

tracer-common-0.7.6-1.fc34.noarch

whois-nls-5.5.9-1.fc34.noarch

Complete!

Moduler

[1]

```
[root@dlp ~]# dnf module list
```

Fedora Modular 34 - x86_64

Name	Stream	Profiles Summary
avocado	latest	default [d], minimal Framework with tools and libraries for Automated Testing
avocado	82lts	default, minimal Framework with tools and libraries for Automated Testing
avocado-vt	latest	default Avocado Virt Test Plugin
avocado-vt	82lts	default Avocado Virt Test Plugin
cri-o	nightly	default Kubernetes Container Runtime Interface for OCI-based containers

.....

.....

varnish	6.0	default Varnish HTTP cache
---------	-----	----------------------------

Hint: [d]efault, [e]nabled, [x]disabled, [i]nstalled

[2]


```
# [Node.js]
[root@dlp ~]# dnf module list nodejs
Fedora Modular 35 - x86_64

Name      Stream    Profiles                                Summary
nodejs    12        default [d], development, minimal     Javascript runtime
nodejs    14        default, development, minimal         Javascript runtime
nodejs    15        default, development, minimal         Javascript runtime
nodejs    16        default, development, minimal         Javascript runtime
```

```
Fedora Modular 35 - x86_64 - Updates

Name      Stream    Profiles                                Summary
nodejs    12        default [d], development, minimal     Javascript runtime
nodejs    14        default, development, minimal         Javascript runtime
nodejs    15        default, development, minimal         Javascript runtime
nodejs    16        default, development, minimal         Javascript runtime
```

Hint: [d]efault, [e]nabled, [x]disabled, [i]nstalled

```
# Node.js 12
[root@dlp ~]# dnf module -y install nodejs:12
Dependencies resolved.
```

```
=====
====
Package      Arch    Version                                Repository
Size
=====
====
Installing group/module packages:
 nodejs      x86_64  1: 12. 22. 7-1. module_f35+13211+80e67b81  updates-modular
94 k
 npm        x86_64  1: 6. 14. 15-1. 12. 22. 7. 1. module_f35+13211+80e67b81  updates-modular
3.3 M
Installing dependencies:
 nodejs-libs x86_64  1: 12. 22. 7-1. module_f35+13211+80e67b81  updates-modular
12 M
Installing weak dependencies:
 nodejs-docs  noarch  1: 12. 22. 7-1. module_f35+13211+80e67b81  updates-modular
3.0 M
 nodejs-full-i18n x86_64  1: 12. 22. 7-1. module_f35+13211+80e67b81  updates-modular
```

7.7 M

Installing module profiles:

nodejs/default

Enabling module streams:

nodejs 12

Transaction Summary

=====

====

Install 5 Packages

.....

.....

[Node.js 12] [e]nabled [i]nstalled

[root@dlp ~]# dnf module list nodejs

Fedora Modular 35 - x86_64

Name	Stream	Profiles	Summary
nodejs	12 [e]	default [d] [i], development, minimal	Javascript runtime
nodejs	14	default, development, minimal	Javascript runtime
nodejs	15	default, development, minimal	Javascript runtime
nodejs	16	default, development, minimal	Javascript runtime

Fedora Modular 35 - x86_64 - Updates

Name	Stream	Profiles	Summary
nodejs	12 [e]	default [d] [i], development, minimal	Javascript runtime
nodejs	14	default, development, minimal	Javascript runtime
nodejs	15	default, development, minimal	Javascript runtime
nodejs	16	default, development, minimal	Javascript runtime

Hint: [d]efault, [e]nabled, [x]disabled, [i]nstalled

[root@dlp ~]# node -v

v12.22.7

#

[root@dlp ~]# dnf module reset nodejs

[Node.js 16]

[root@dlp ~]# dnf module enable nodejs:16

[root@dlp ~]# dnf module -y install nodejs:16/default

[Node.js 16] [e]nabled

```
[root@dlp ~]# dnf module list nodejs
Fedora Modular 35 - x86_64
Name      Stream  Profiles                                Summary
nodejs    12      default [d], development, minimal     Javascript runtime
nodejs    14      default, development, minimal         Javascript runtime
nodejs    15      default, development, minimal         Javascript runtime
nodejs    16 [e]   default [i], development, minimal     Javascript runtime

Fedora Modular 35 - x86_64 - Updates
Name      Stream  Profiles                                Summary
nodejs    12      default [d], development, minimal     Javascript runtime
nodejs    14      default, development, minimal         Javascript runtime
nodejs    15      default, development, minimal         Javascript runtime
nodejs    16 [e]   default [i], development, minimal     Javascript runtime

Hint: [d]efault, [e]nabled, [x]disabled, [i]nstalled

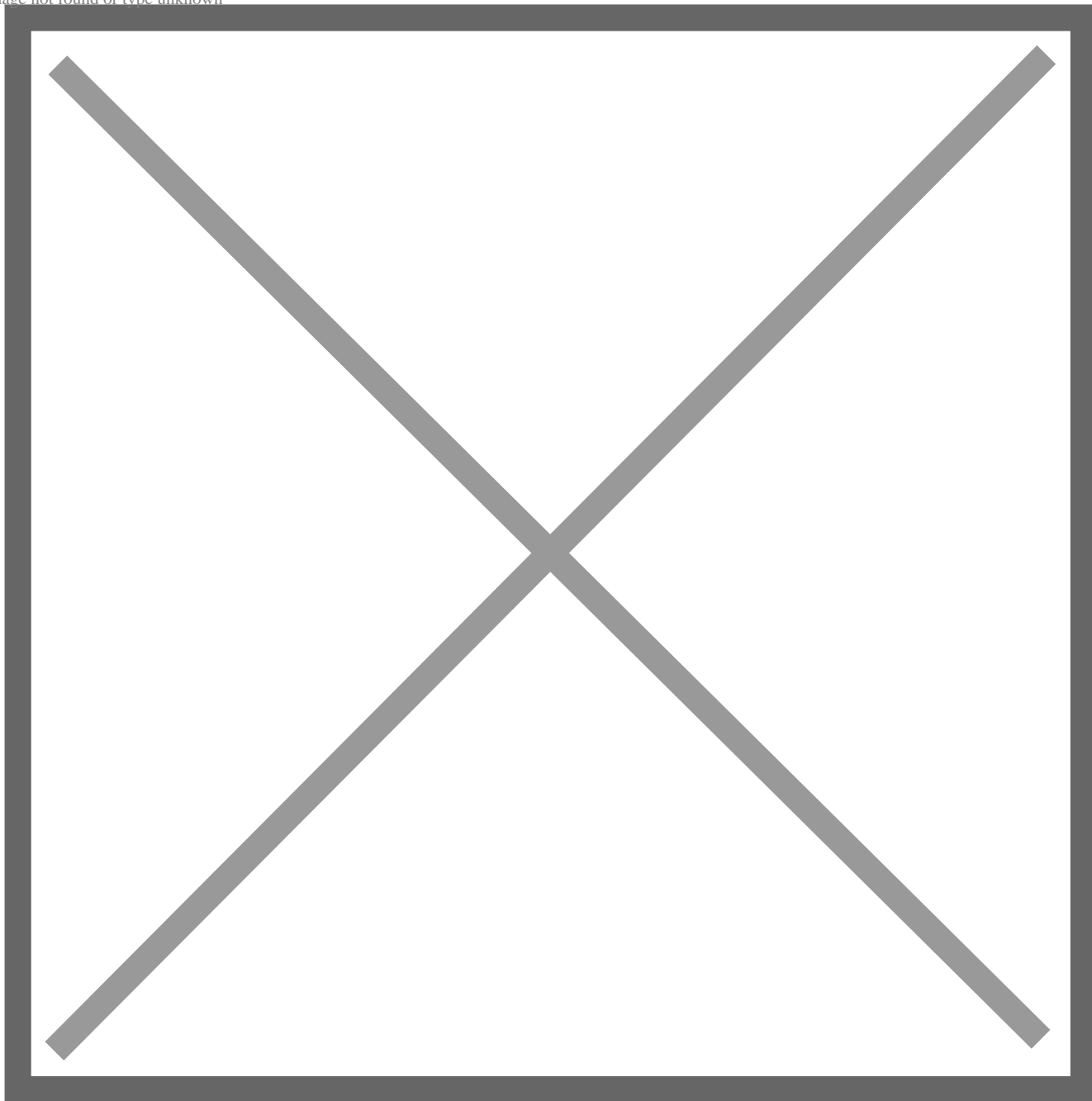
[root@dlp ~]# node -v
v16.11.1
```

web

[Fedora Server] Cockpit Admin Console
Web Fedora
Cockpit Firewallld Fedora [cockpit] [9090]

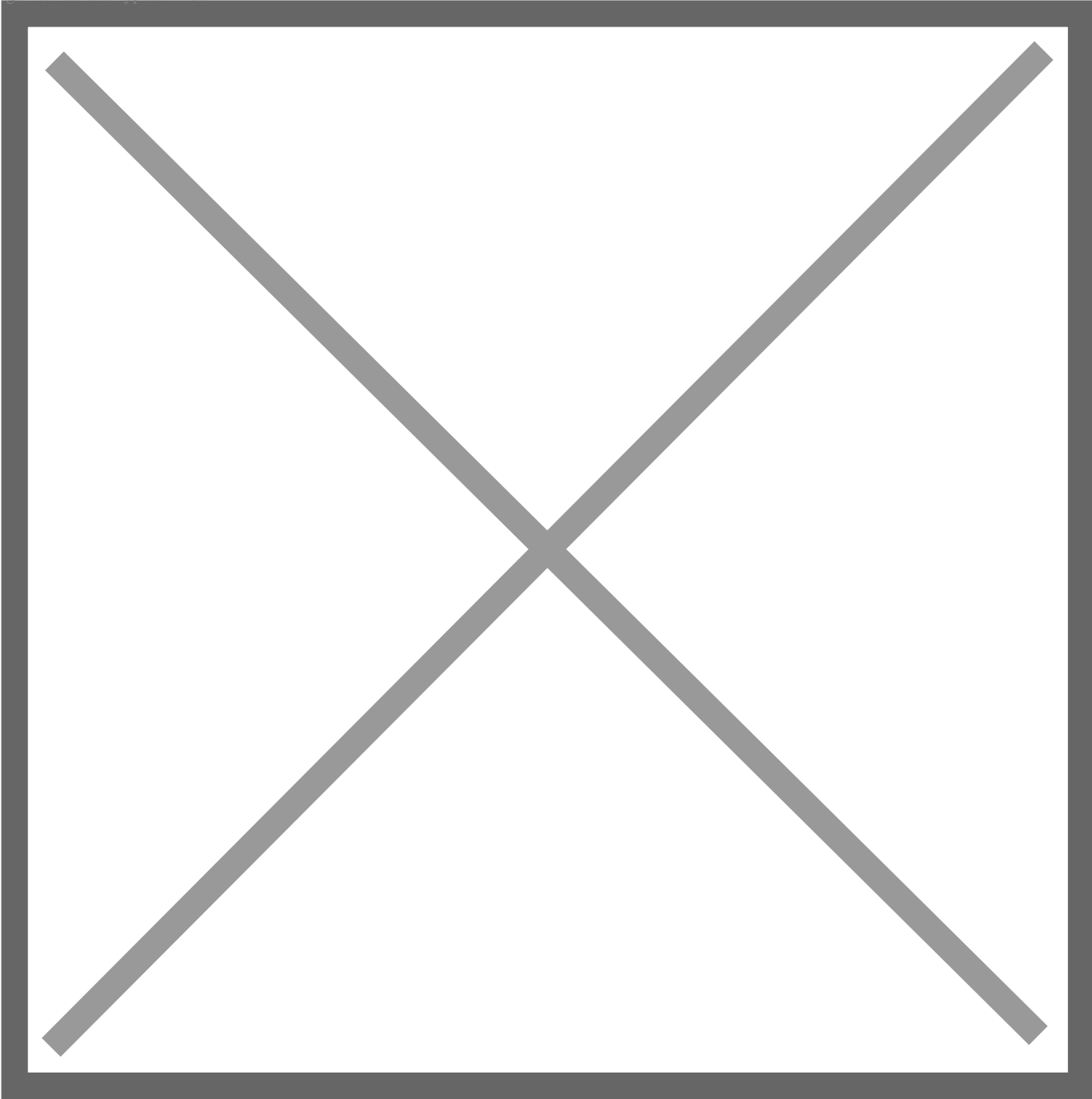
[1]	localhost	Web	[https://(IP):9090/]
-----	-----------	-----	------------------------

Image not found or type unknown



[2]

Image not found or type unknown

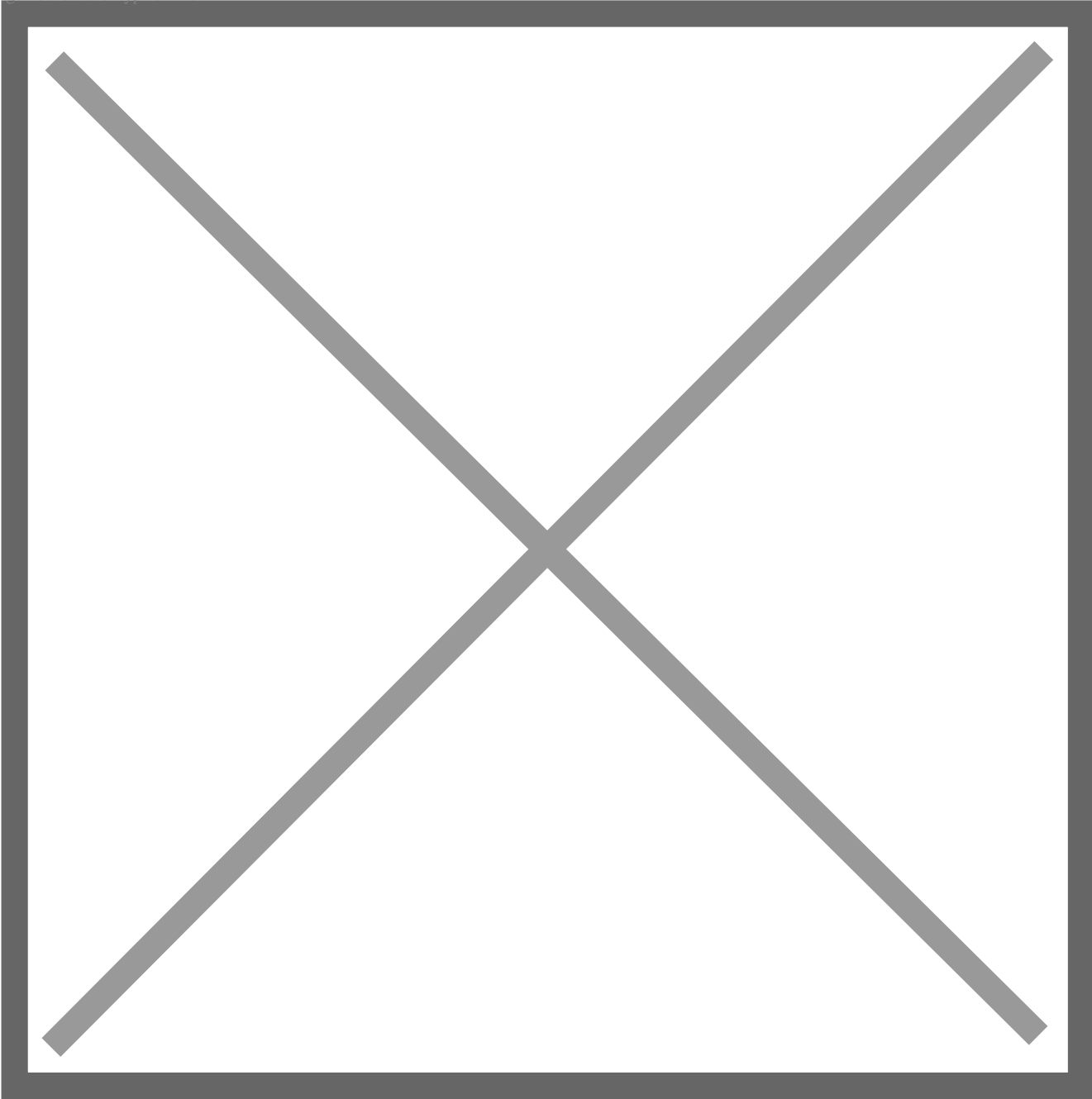


[3]

[]

[]

Image not found or type unknown

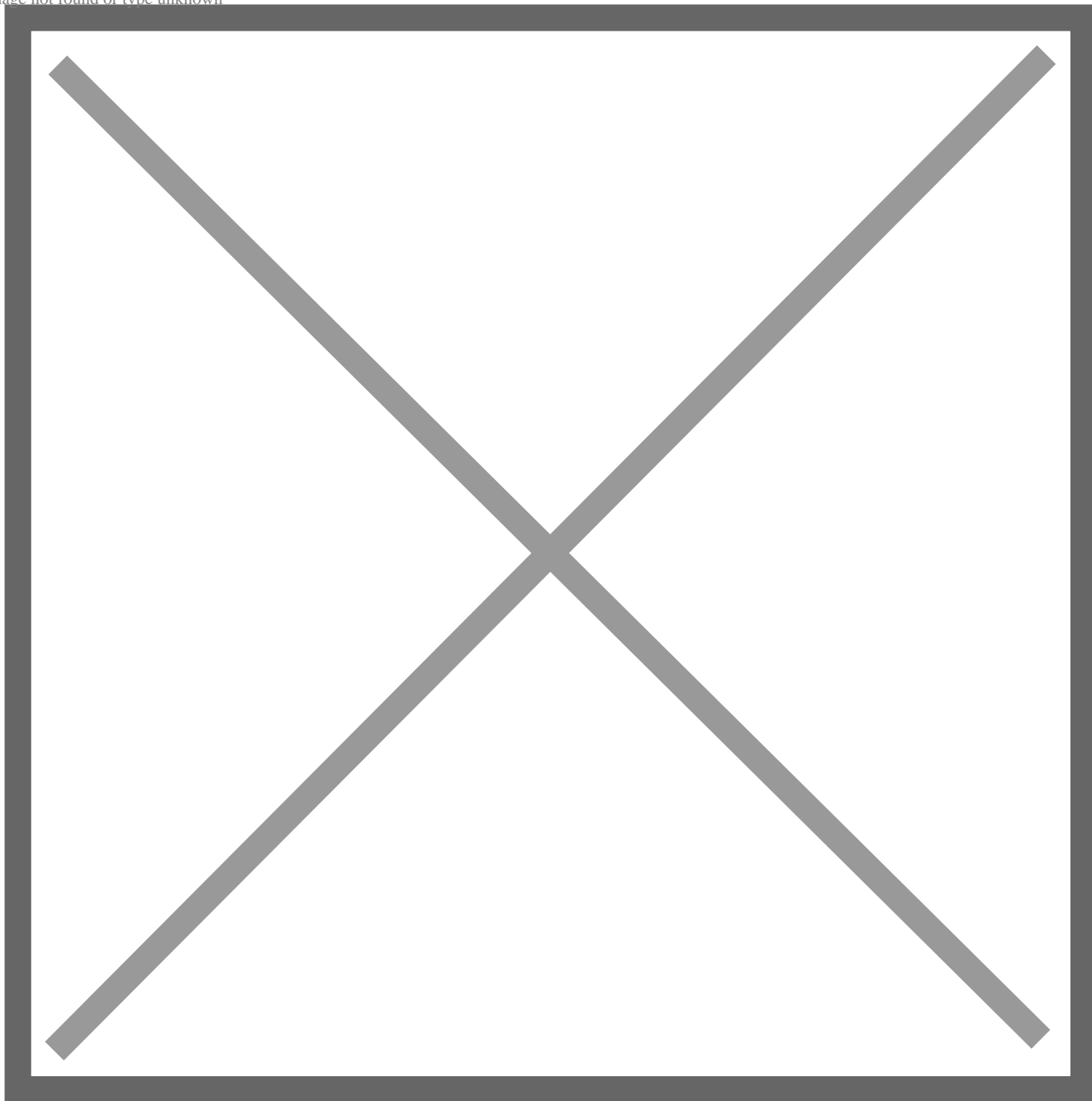


[4]

[Storage]

Storage

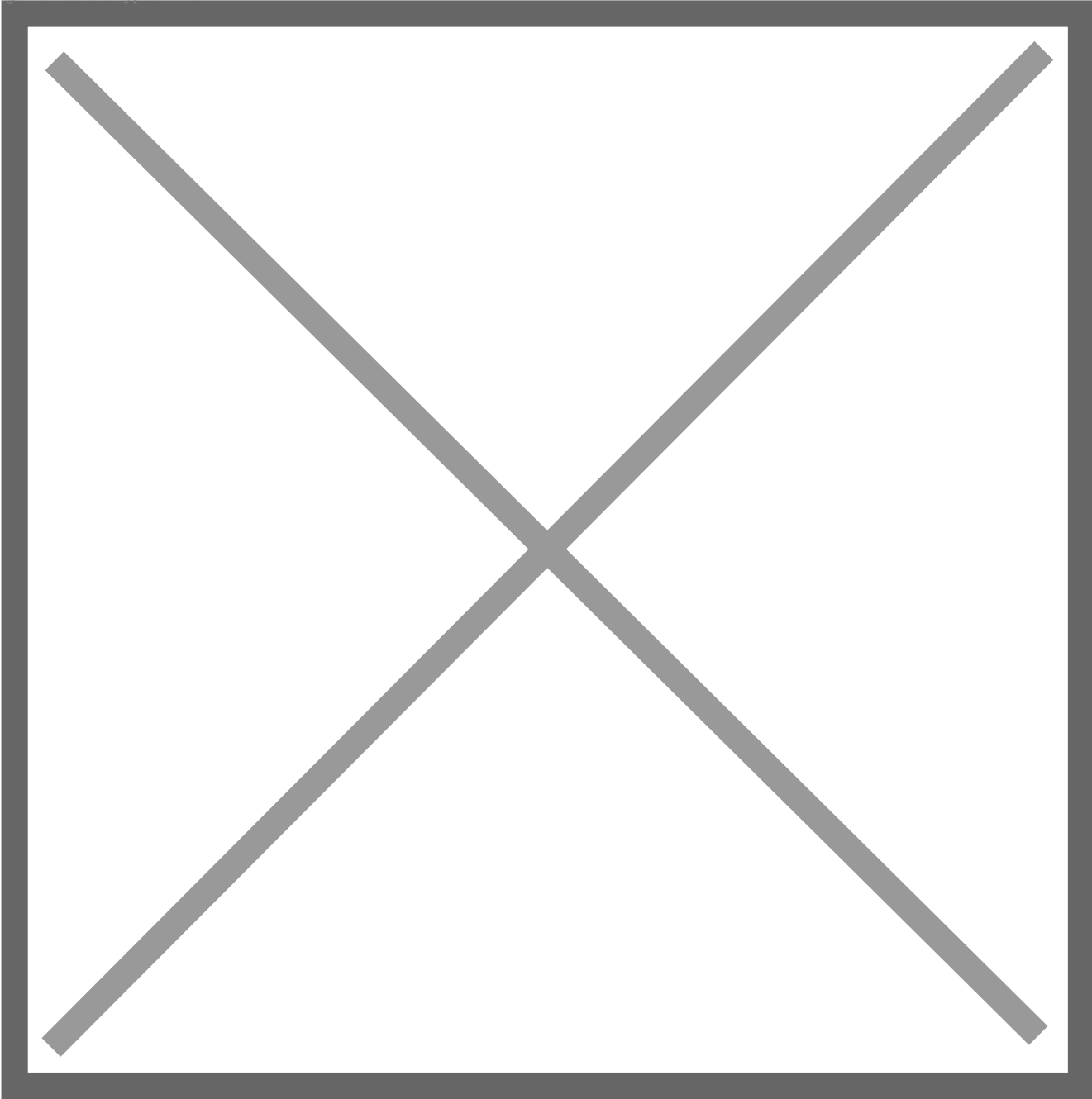
Image not found or type unknown



[5]

[]

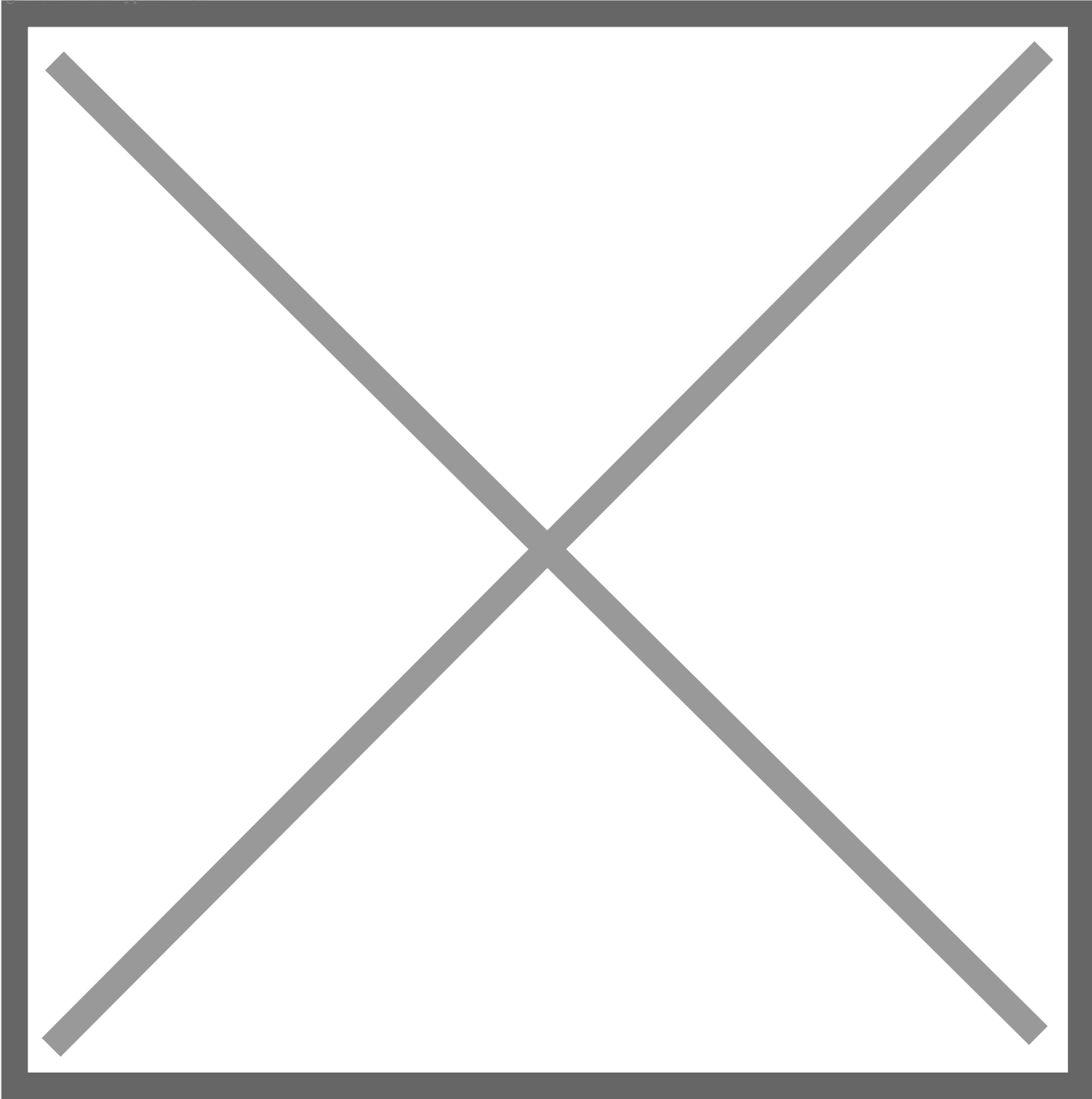
Image not found or type unknown



[6]

[Accounts]

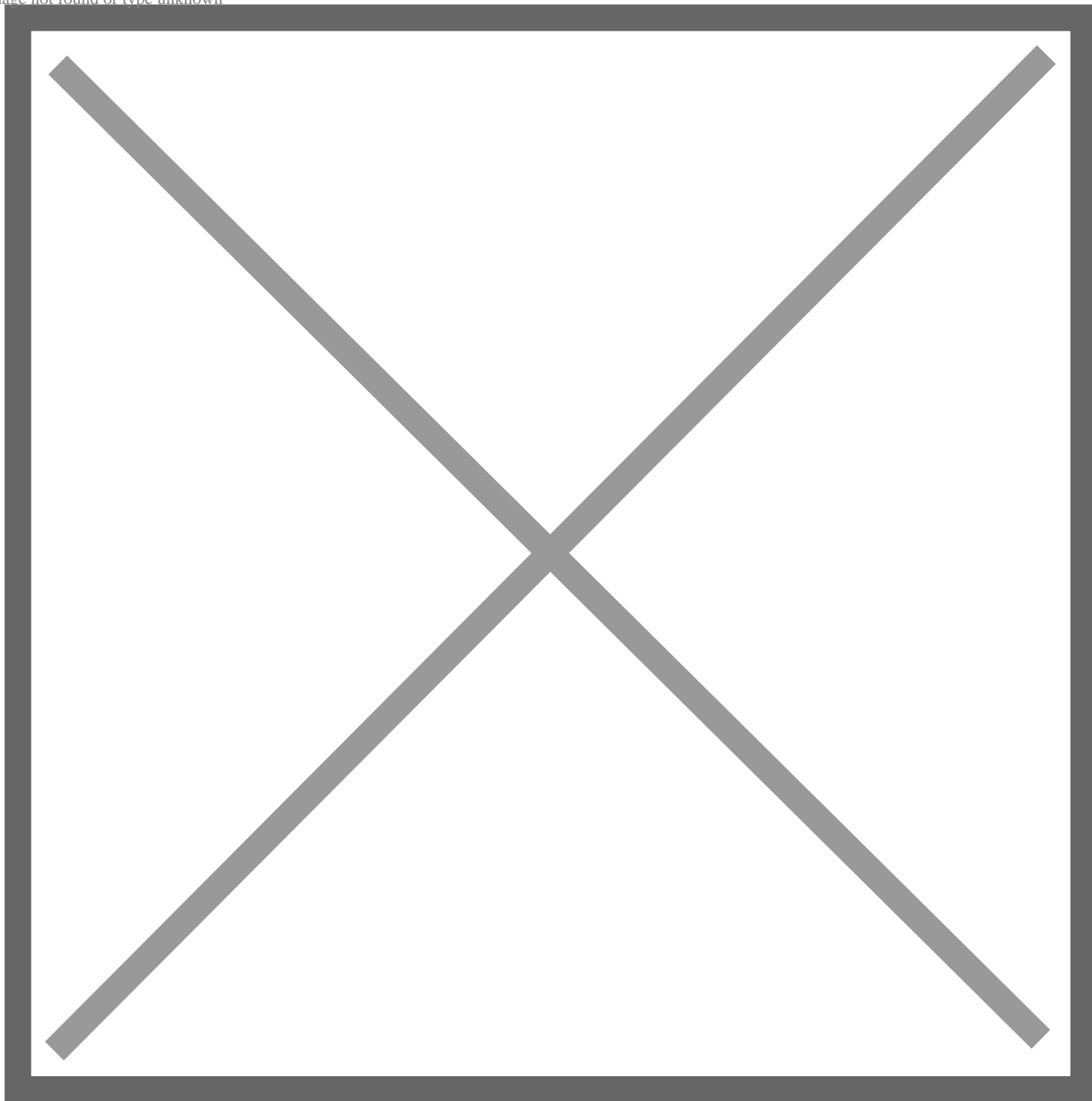
Image not found or type unknown



[7]

[]

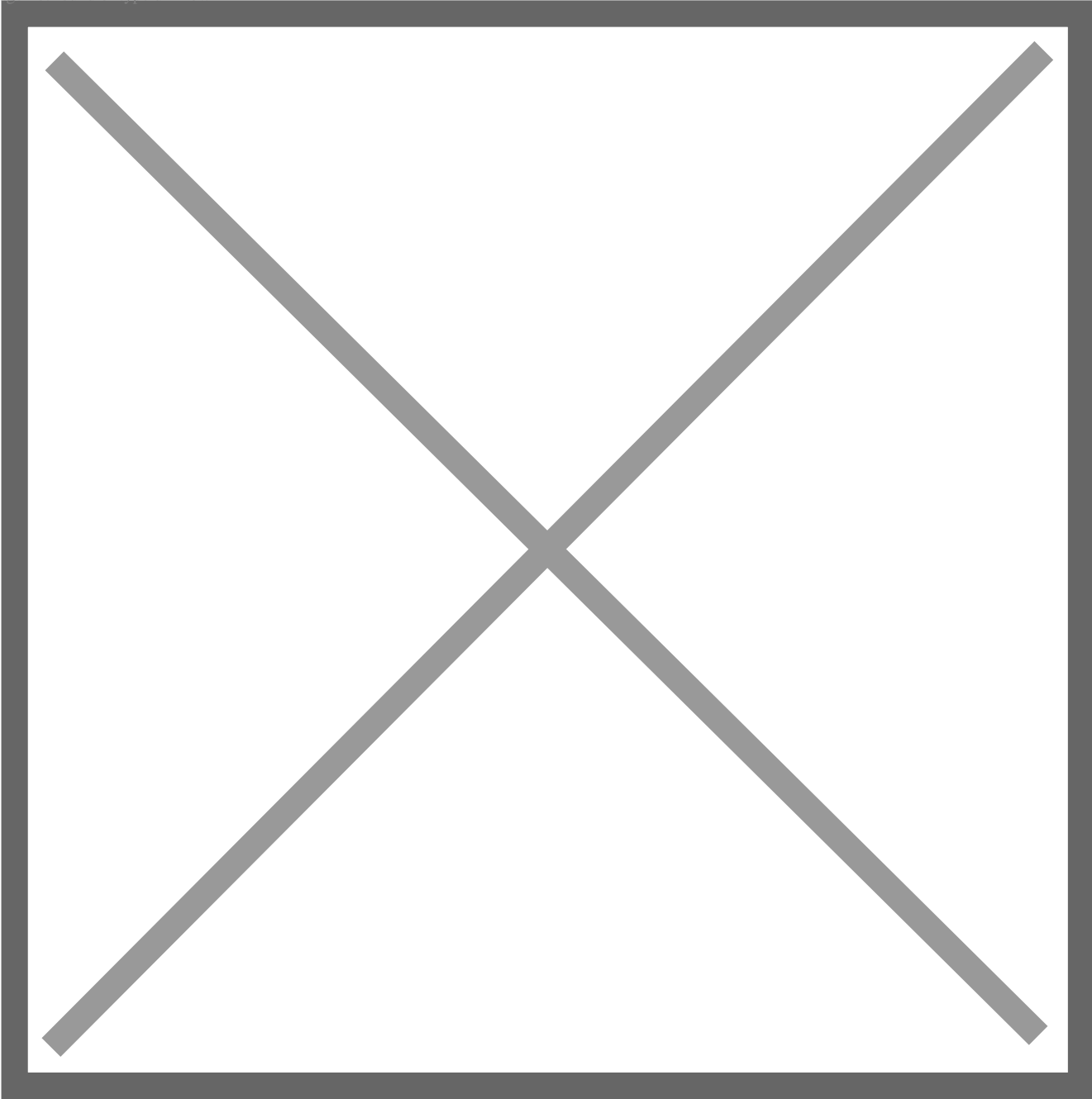
Image not found or type unknown



[8]

[]

Image not found or type unknown



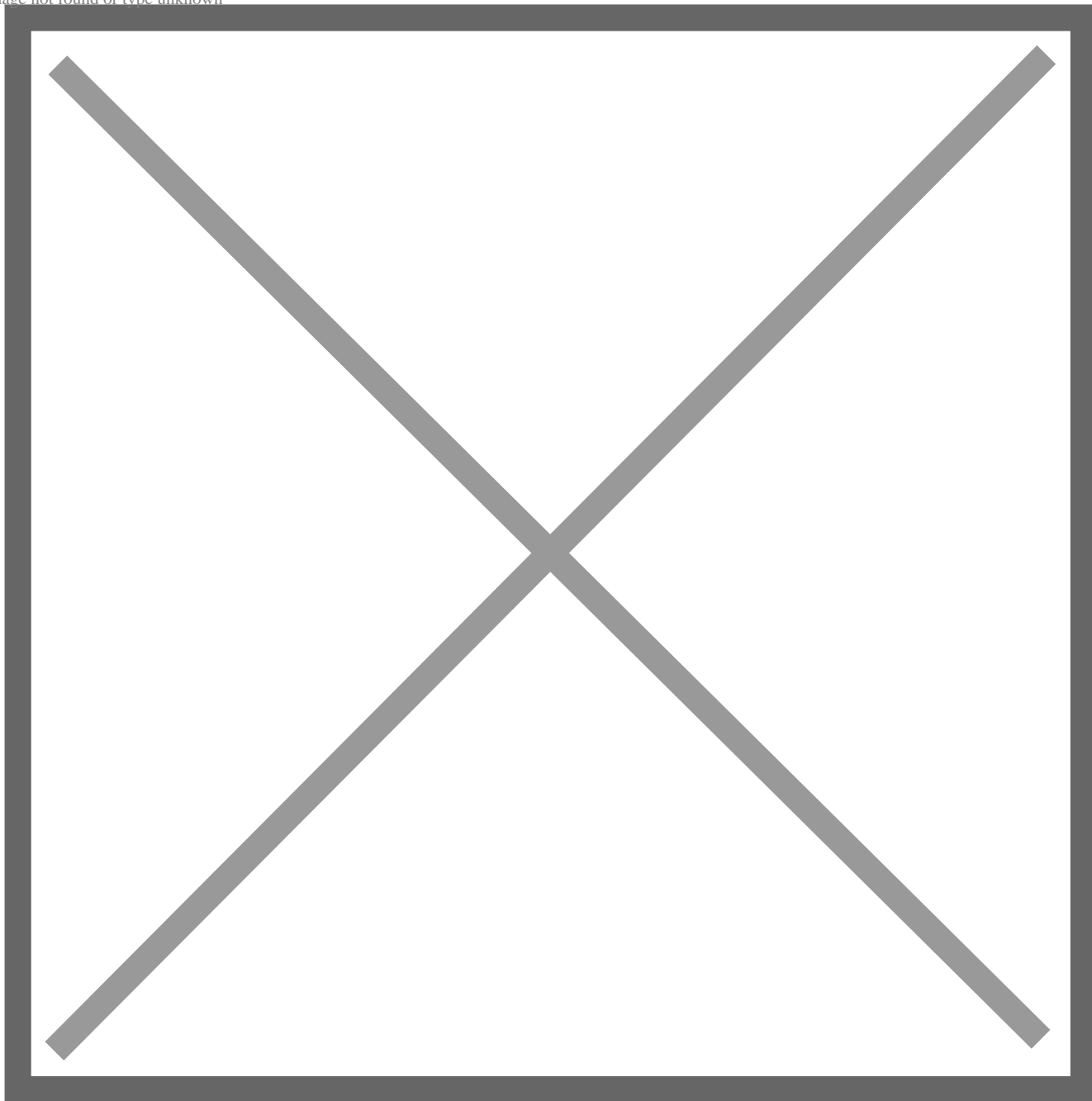
[9]

[SELinux]

SELinux

SELinux

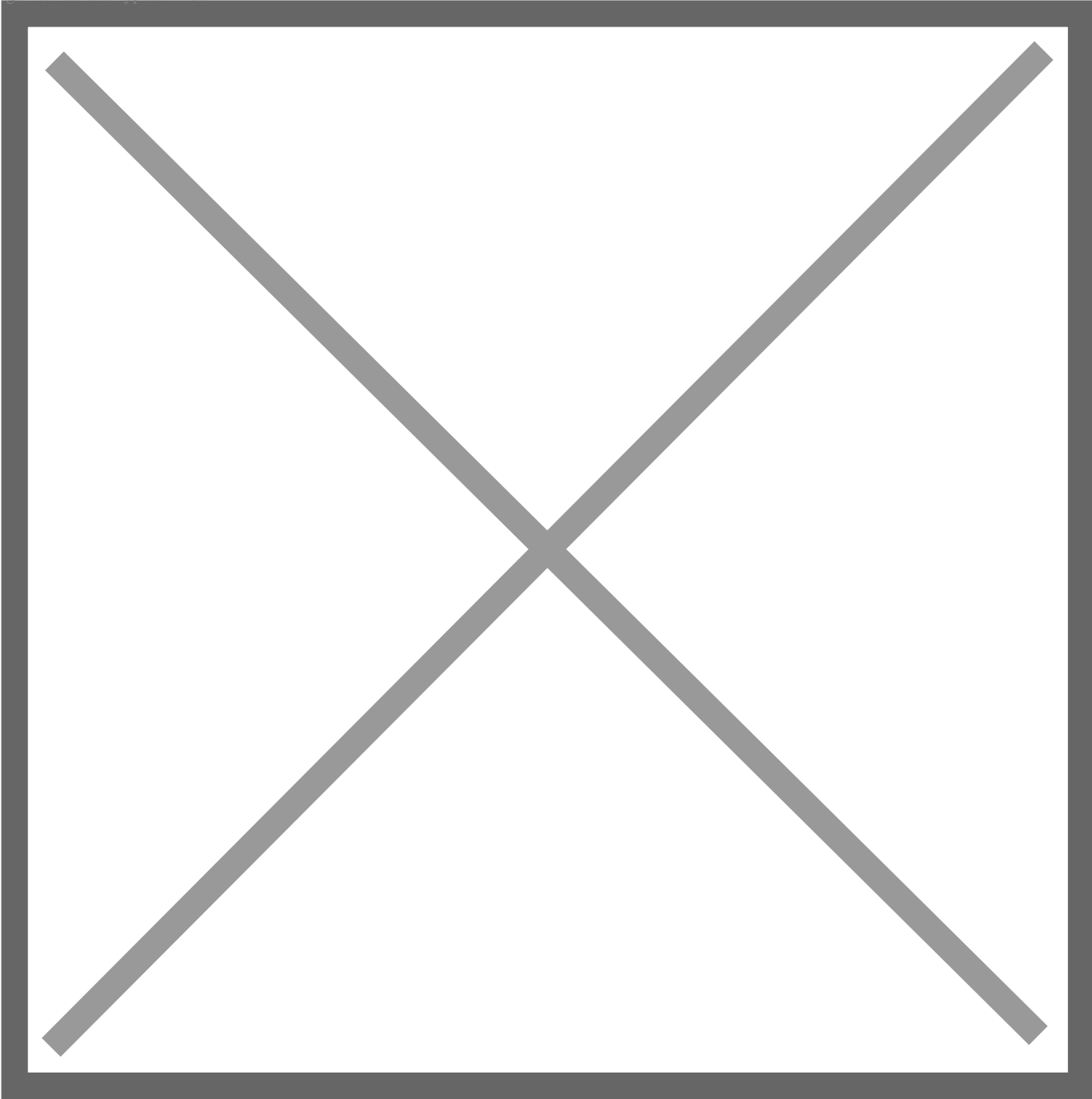
Image not found or type unknown



[10]

[]

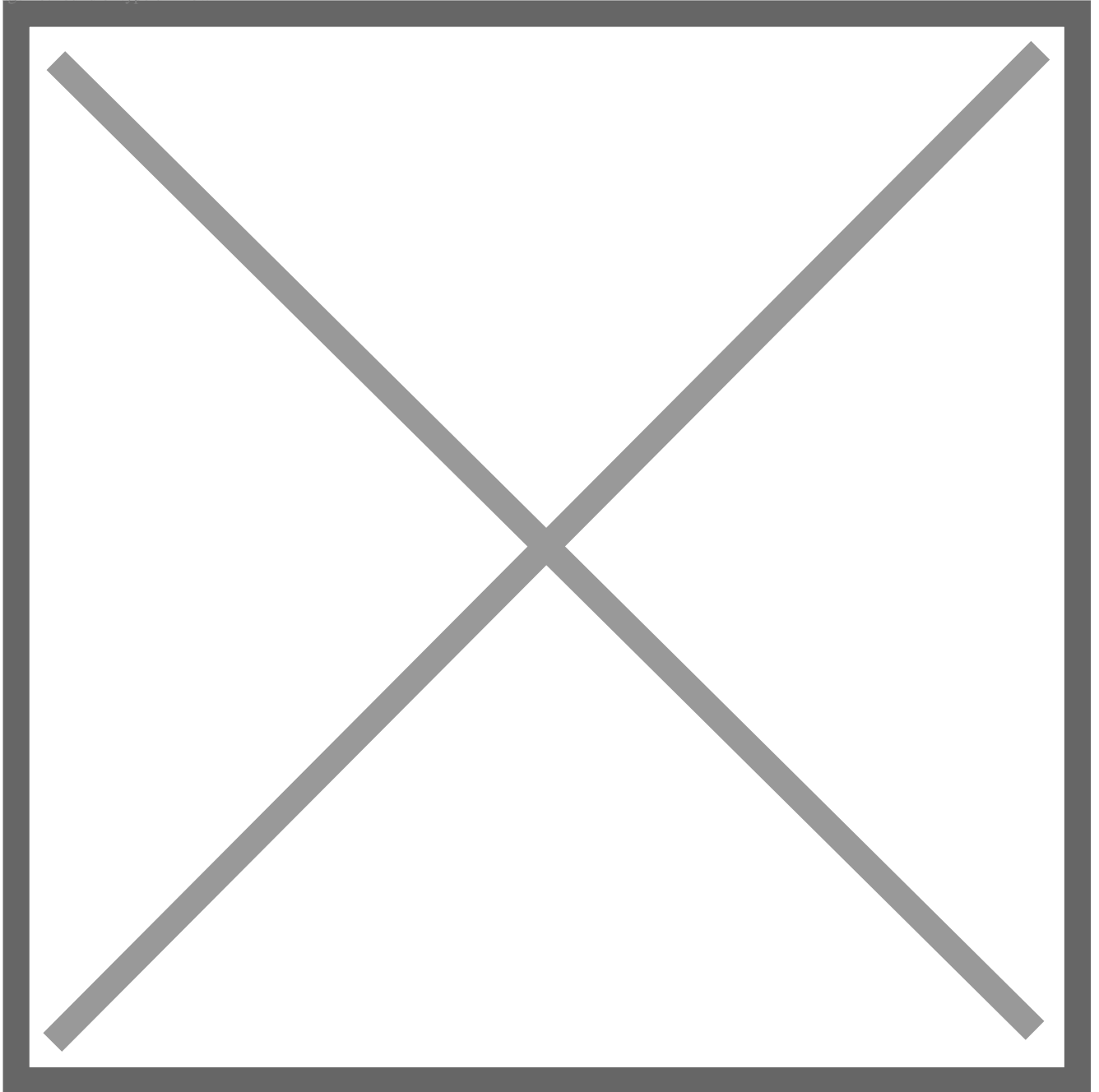
Image not found or type unknown



[11]

[]

Image not found or type unknown



sudo

Revision #4

Created 2 March 2022 20:17:04 by

Updated 9 July 2022 19:08:53 by