



Preparado exclusivamente para Netec Digital
Por: Lawrence McDaniel | lpm0073@gmail.com | lawrencemcdaniel.com



LMS: <http://edx.netecdigital.com/>

CMS: <http://edx.netecdigital.com:18010/>

Recursos Adicionales

Guia de Native Installation	https://openedx.atlassian.net/wiki/display/OpenOPS/Native+Open+edX+Ubuntu+16.04+64+bit+Installation
Installing, Configuring and Running Open edX	http://edx.readthedocs.io/projects/edx-installing-configuring-and-running/en/latest/front_matter/index.html
Managing Open edX	https://openedx.atlassian.net/wiki/display/OpenOPS/Managing+OpenEdX+Tips+and+Tricks
Comprehensive Theming Tutorial	https://www.slideshare.net/mbifulco1/edx-comprehensive-tutorial
Open edX DevOps	https://open.edx.org/videos/edx-hosting-architecture

Plataforma Netec Open edX

Netec Digital Open edX LMS	http://edx.netecdigital.com/
Netec Digital Open edX CMS	http://edx.netecdigital.com:18010/
Django Admin Console	http://edx.netecdigital.com/admin
Github Repository – Custom Theme	https://github.com/lpm0073/netec-edx-theme

Datos del servidor

- Nombre Dominio: <http://edx.netecdigital.com/>
- IP: 40.78.27.89
- Ubicaciòn: Microsoft Azure
- Connection Protocol: SSH (port 22, con contraseña)
- Usuario: edxnetec



Operaciones Comunes

Crear ambiente Ficus “Dev” ó “QA”

Instanciar un servidor virtual **NUEVO Y LIMPIO** de Ubuntu 16.04 LTS. No hagas ni un cambio al instalación.

1. Set the OPENEDX_RELEASE variable:

```
export OPENEDX_RELEASE=open-release/ficus.3
```

* Se tarda
aproximadamente
3.5 horas

2. Bootstrap Ansible:

```
wget https://raw.githubusercontent.com/edx/configuration/$OPENEDX_RELEASE/util/install/ansible-bootstrap.sh -O - | sudo bash
```

3. Iniciar contraseñas para el instalación:

```
wget https://raw.githubusercontent.com/edx/configuration/$OPENEDX_RELEASE/util/install/generate-passwords.sh -O - | bash
```

4. Instalar Open edX:

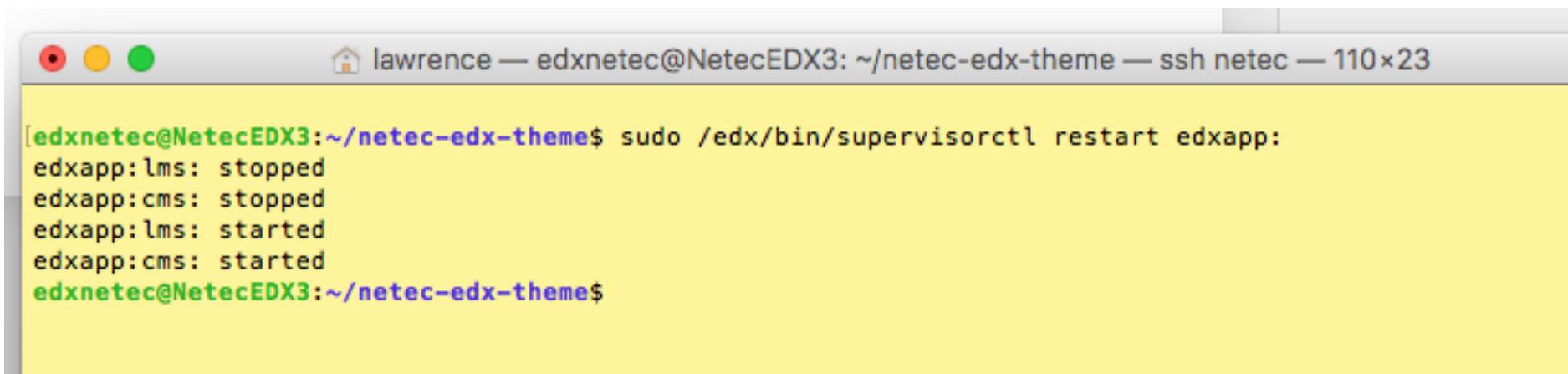
```
wget https://raw.githubusercontent.com/edx/configuration/$OPENEDX_RELEASE/util/install/sandbox.sh -O - | bash
```

Recursos:

<https://openedx.atlassian.net/wiki/display/OpenOPS/Native+Open+edX+Ubuntu+16.04+64+bit+Installation>

Reniciar los servicios

sudo /edx/bin/supervisorctl restart edxapp:

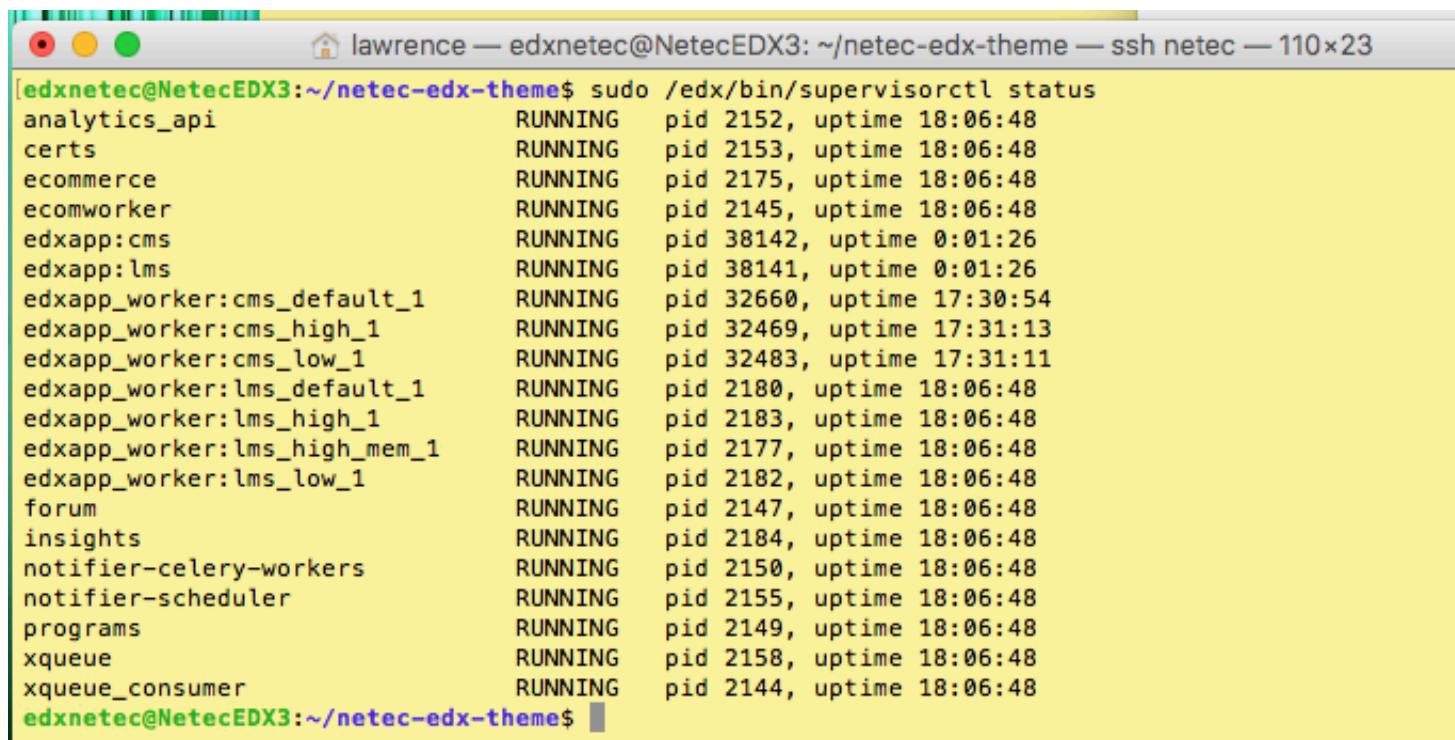


A screenshot of a macOS terminal window. The title bar shows the user 'lawrence' and the host 'edxnetec@NetecEDX3: ~/netec-edx-theme — ssh netec — 110×23'. The main pane contains the following text:

```
[edxnetec@NetecEDX3:~/netec-edx-theme$ sudo /edx/bin/supervisorctl restart edxapp:  
edxapp:lms: stopped  
edxapp:cms: stopped  
edxapp:lms: started  
edxapp:cms: started  
edxnetec@NetecEDX3:~/netec-edx-theme$
```

Ver los servicios

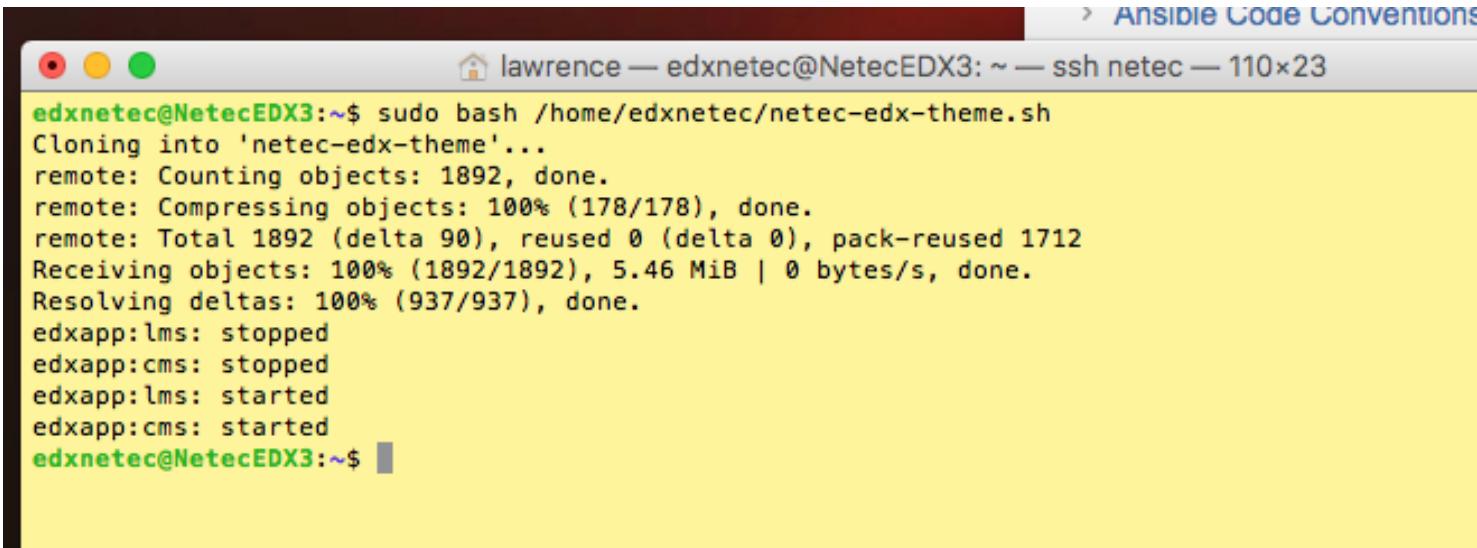
sudo /edx/bin/supervisorctl status



```
[edxnetec@NetecEDX3:~/netec-edx-theme$ sudo /edx/bin/supervisorctl status
analytics_api                  RUNNING  pid 2152, uptime 18:06:48
certs                          RUNNING  pid 2153, uptime 18:06:48
ecommerce                       RUNNING  pid 2175, uptime 18:06:48
ecomworker                      RUNNING  pid 2145, uptime 18:06:48
edxapp:cms                      RUNNING  pid 38142, uptime 0:01:26
edxapp:lms                      RUNNING  pid 38141, uptime 0:01:26
edxapp_worker:cms_default_1     RUNNING  pid 32660, uptime 17:30:54
edxapp_worker:cms_high_1         RUNNING  pid 32469, uptime 17:31:13
edxapp_worker:cms_low_1          RUNNING  pid 32483, uptime 17:31:11
edxapp_worker:lms_default_1     RUNNING  pid 2180, uptime 18:06:48
edxapp_worker:lms_high_1         RUNNING  pid 2183, uptime 18:06:48
edxapp_worker:lms_high_mem_1    RUNNING  pid 2177, uptime 18:06:48
edxapp_worker:lms_low_1          RUNNING  pid 2182, uptime 18:06:48
forum                           RUNNING  pid 2147, uptime 18:06:48
insights                         RUNNING  pid 2184, uptime 18:06:48
notifier-celery-workers         RUNNING  pid 2150, uptime 18:06:48
notifier-scheduler               RUNNING  pid 2155, uptime 18:06:48
programs                         RUNNING  pid 2149, uptime 18:06:48
xqueue                           RUNNING  pid 2158, uptime 18:06:48
xqueue_consumer                 RUNNING  pid 2144, uptime 18:06:48
edxnetec@NetecEDX3:~/netec-edx-theme$ ]
```

Refrescar Custom Theme

```
sudo bash /home/edxnetec/netec-edx-theme.sh
```



A screenshot of a terminal window titled "Ansible Code Conventions". The window shows a command being run: "sudo bash /home/edxnetec/netec-edx-theme.sh". The output of the command is displayed below the command line:

```
edxnetec@NetecEDX3:~$ sudo bash /home/edxnetec/netec-edx-theme.sh
Cloning into 'netec-edx-theme'...
remote: Counting objects: 1892, done.
remote: Compressing objects: 100% (178/178), done.
remote: Total 1892 (delta 90), reused 0 (delta 0), pack-reused 1712
Receiving objects: 100% (1892/1892), 5.46 MiB | 0 bytes/s, done.
Resolving deltas: 100% (937/937), done.
edxapp:lms: stopped
edxapp:cms: stopped
edxapp:lms: started
edxapp:cms: started
edxnetec@NetecEDX3:~$
```

Crear Django Super User

<https://groups.google.com/forum/#!msg/openedx-ops/M5ytgpw57EE/MZs41-yIAAJ>

email: lpm0073@gmail.com

User: lpm0073

Pwd: netec

```
sudo -u www-data /edx/bin/python.edxapp ./manage.py lms --settings aws create_user -s -p edx -e
lpm0073@gmail.com
sudo -u www-data /edx/bin/python.edxapp ./manage.py lms --settings aws changepassword lpm0073
sudo -u www-data /edx/bin/python.edxapp ./manage.py lms --settings aws shell
    from django.contrib.auth.models import User
    me = User.objects.get(username="lpm0073")
    me.is_superuser = True
    me.is_staff = True
    me.save()
```

Borrar un curso

```
sudo -H -u www-data bash  
source /edx/app/edxapp/edxapp_env  
cd /edx/app/edxapp/edx-platform  
/edx/bin/python.edxapp ./manage.py cms --settings aws delete_course 'course-v1:NetecDigital+100-1+100'
```

The screenshot shows a web browser window with the URL <http://edx.netecdigital.com:1801/settings/details/course-v1:NetecDigital+100-1+100>. The page title is "Managing OpenEdX Tips and Tutorials". The main content area is titled "Calendario y detalles" under "Configuración". On the right, there is a sidebar with tabs: "Configuración" (which is active), "Calificaciones", "Equipo del curso", "Configuraciones de Grupo", and "Configuración avanzada". A red box highlights the "Información básica" section at the bottom left, which contains the following information:

Organización	Código del curso	El curso se desarrollará en
NetecDigital	100-1	100



Administración

Reglas de oro

La plataforma Open edX es sensible

- Nunca actualices ni el sistema operativo Ubuntu ni los paquetes instalados
- No cambies permisos de ningún archivo ni carpeta
- No reubiques nada en el servidor
- No des de alta ningún usuario nuevo
- No cambies ninguna contraseña
- No actualices el sistema Open edX

OJO!



Respaldos

Backing up:

```
mysqldump edxapp -u root --single-transaction > backup/backup.sql
mongodump --db edxapp
mongodump --db cs_comments_service_development
```

Restoring:

```
mysql -u root edxapp < backup.sql
mongo edxapp --eval "db.dropDatabase()"
mongorestore dump/
```

Recursos:

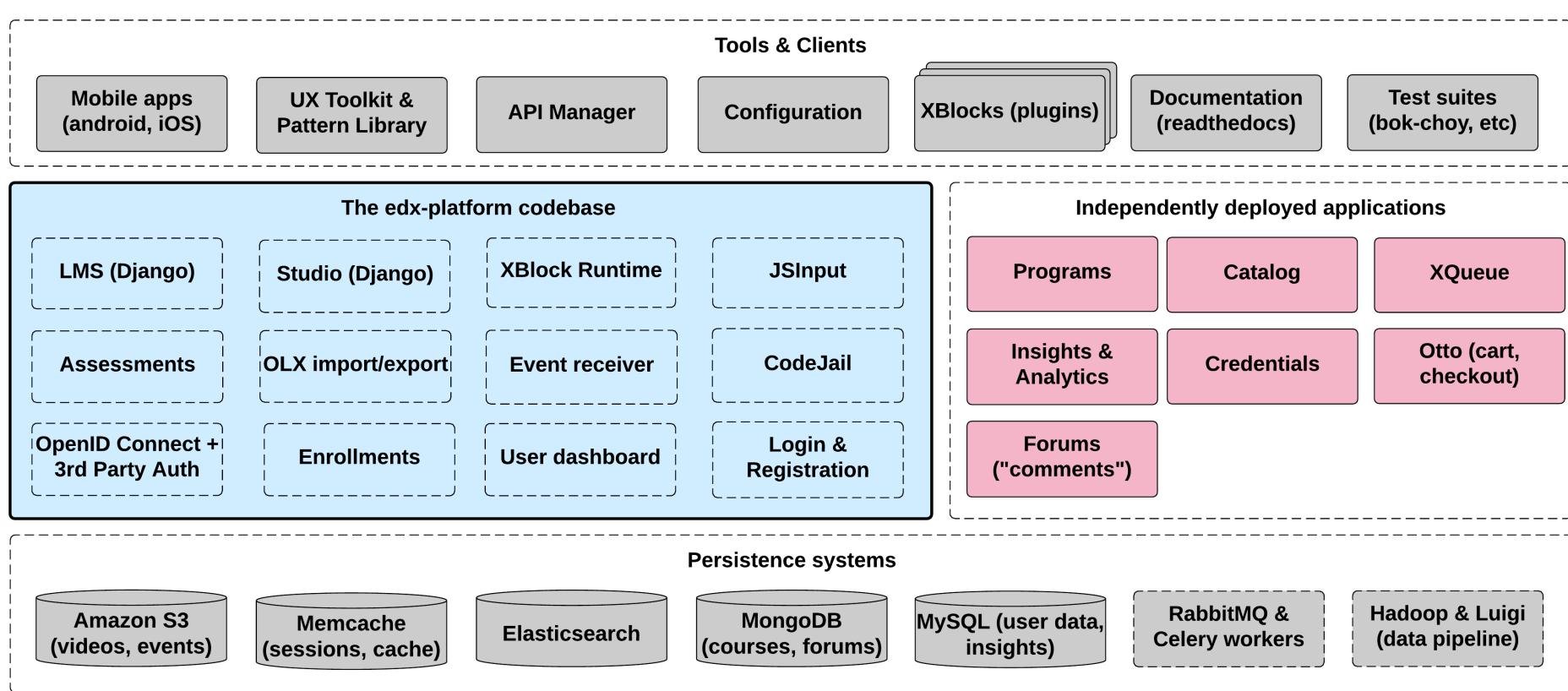
<http://stackoverflow.com/questions/36325662/how-to-backup-and-restore-open-edx-from-one-server-to-other>

Carpetas Importantes

Logs	/edx/var/log
Data	/edx/var/
Scripts	/edx/bin
Configuración Open edX	/edx/app/edxapp
contraseñas	/home/edxnetec/passwords.yml
Custom theme	/home/edxnetec/neted-edx-theme

Dependencias y tecnología de Open edX

Python Django	Memcached
Ruby on Rails	NodeJs
nginx	SASS
MongoDB	Mako
MySQL	Xqueue
RabbitMQ	Ubuntu
Elasticache	Ansible + Github



Subsistemas de Open edX

```
[edxnetec@NetecEDX3:/edx/app$ pwd  
/edx/app  
[edxnetec@NetecEDX3:/edx/app$ ls -lha  
total 68K  
drwxr-xr-x 17 root      root      4.0K May  6 15:53 .  
drwxr-xr-x  6 root      root      4.0K May  6 14:29 ..  
drwxr-xr-x  8 analytics_api www-data 4.0K May  6 15:38 analytics_api  
drwxr-xr-x  7 certs     www-data 4.0K May  6 15:53 certs  
drwxr-xr-x  3 edxapp    www-data 4.0K May  6 15:44 demo  
drwxr-xr-x 12 ecommerce  www-data 4.0K May  6 15:36 ecommerce  
drwxr-xr-x  8 ecomworker www-data 4.0K May  6 15:36 ecomworker  
drwxr-xr-x  5 edx-ansible www-data 4.0K May  6 15:53 edx_ansible  
drwxr-xr-x  8 edxapp    www-data 4.0K May  8 18:29 edxapp  
drwxr-xr-x  6 forum     www-data 4.0K May  6 15:50 forum  
drwxr-xr-x 13 insights   www-data 4.0K May  6 15:44 insights  
drwxr-xr-x  4 root      www-data 4.0K May  6 14:38 nginx  
drwxr-xr-x  8 notifier   www-data 4.0K May  6 15:51 notifier  
drwxr-xr-x  8 programs   www-data 4.0K May  6 15:38 programs  
drwxr-xr-x  2 rabbitmq   root      4.0K May  6 14:41 rabbitmq  
drwxr-xr-x  5 supervisor  www-data 4.0K May  6 14:41 supervisor  
drwxr-xr-x  5 xqueue    www-data 4.0K May  6 15:52 xqueue  
edxnetec@NetecEDX3:/edx/app$ ]
```

Muchos de tanto los subsistemas como los módulos conviven con el app Open edX a dentro de /edx/app

Módulos Open edX Claves:

- Analytics
- Certs
- Forum
- Insights

Monitorear procesos del sistema

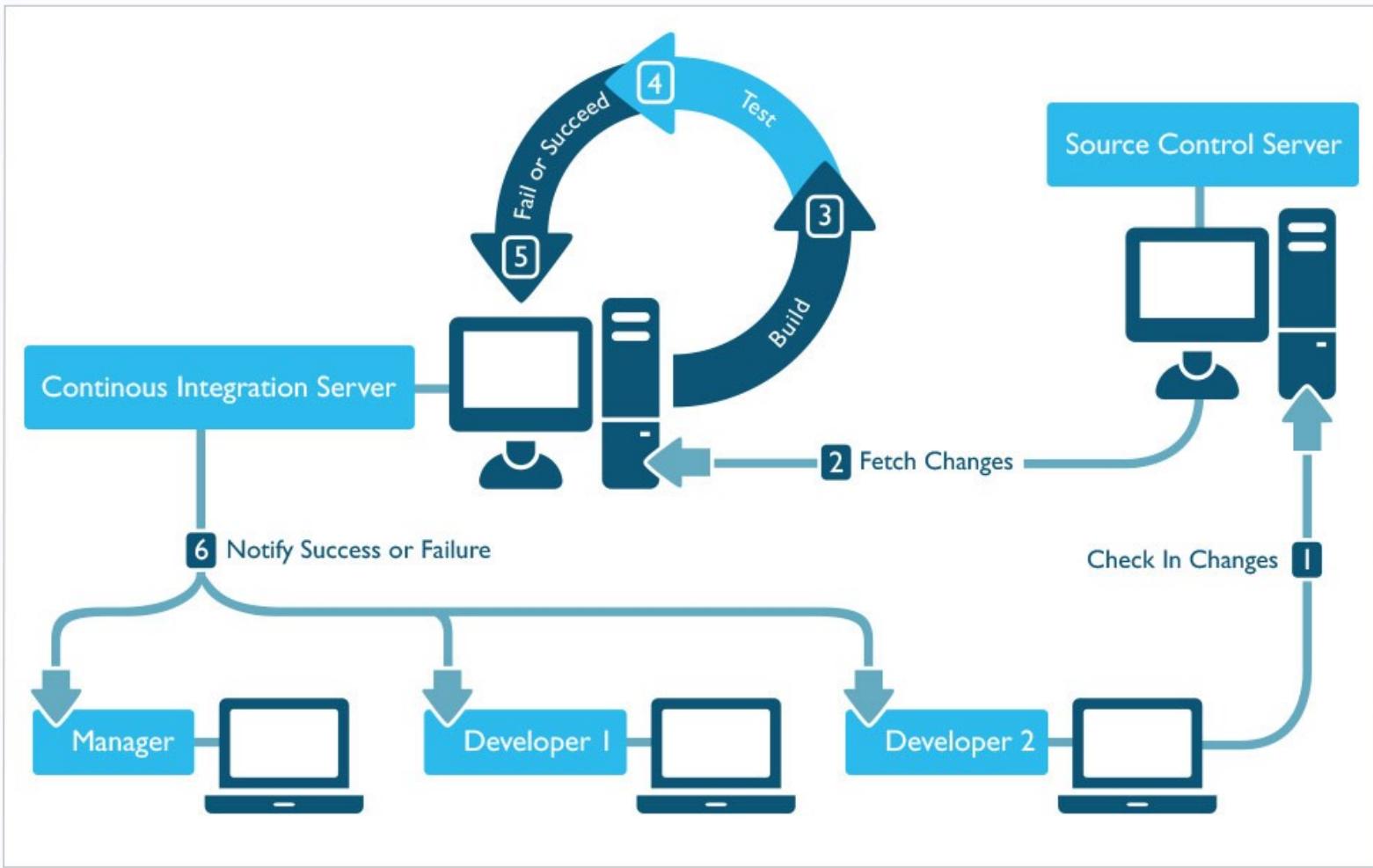
```
lawrence — edxnetec@NetecEDX3: /edx/app — ssh netec — 94x27
top - 12:25:18 up 18:36,  1 user,  load average: 0.02, 0.11, 0.19
Tasks: 223 total,   1 running, 222 sleeping,   0 stopped,   0 zombie
%Cpu(s):  1.8 us,  0.3 sy,  0.0 ni, 97.8 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
KiB Mem : 7134416 total, 579124 free, 5086116 used, 1469176 buff/cache
KiB Swap: 1953120 total, 1811576 free, 141544 used. 1616948 avail Mem

 PID USER      PR  NI    VIRT    RES   SHR S %CPU %MEM     TIME+ COMMAND
 2037 rabbitmq  20   0 1168644  68584  4796 S  1.0  1.0  12:53.00 beam.smp
    22 root      39  19      0     0   0 S  0.3  0.0  0:03.25 khugepaged
 1160 mongodb  20   0 702448 104996 49944 S  0.3  1.5  1:51.45 mongod
1823 elastic+  20   0 2949764 300896 14280 S  0.3  4.2  1:22.98 java
1969 mysql     20   0 1445180 125056  9676 S  0.3  1.8  0:32.28 mysqld
2148 www-data  20   0  88664  34248  3672 S  0.3  0.5  0:15.06 celery
2154 www-data  20   0 316036  34580  4768 S  0.3  0.5  1:08.75 python
2177 www-data  20   0 616844 175300 21904 S  0.3  2.5  1:52.00 python
2180 www-data  20   0 616856 177172 21992 S  0.3  2.5  1:53.58 python
2182 www-data  20   0 616876 174648 22020 S  0.3  2.4  1:53.46 python
2183 www-data  20   0 616852 174232 21964 S  0.3  2.4  1:54.05 python
32469 www-data  20   0 609744 182160 24416 S  0.3  2.6  1:50.41 python
32483 www-data  20   0 609740 182080 24392 S  0.3  2.6  1:50.99 python
    1 root      20   0 37940   5984  4044 S  0.0  0.1  0:48.46 systemd
    2 root      20   0      0     0   0 S  0.0  0.0  0:00.00 kthreadd
    3 root      20   0      0     0   0 S  0.0  0.0  0:05.09 ksoftirqd/0
    5 root      0 -20      0     0   0 S  0.0  0.0  0:00.00 kworker/0:0H
    7 root      20   0      0     0   0 S  0.0  0.0  0:14.87 rcu_sched
```

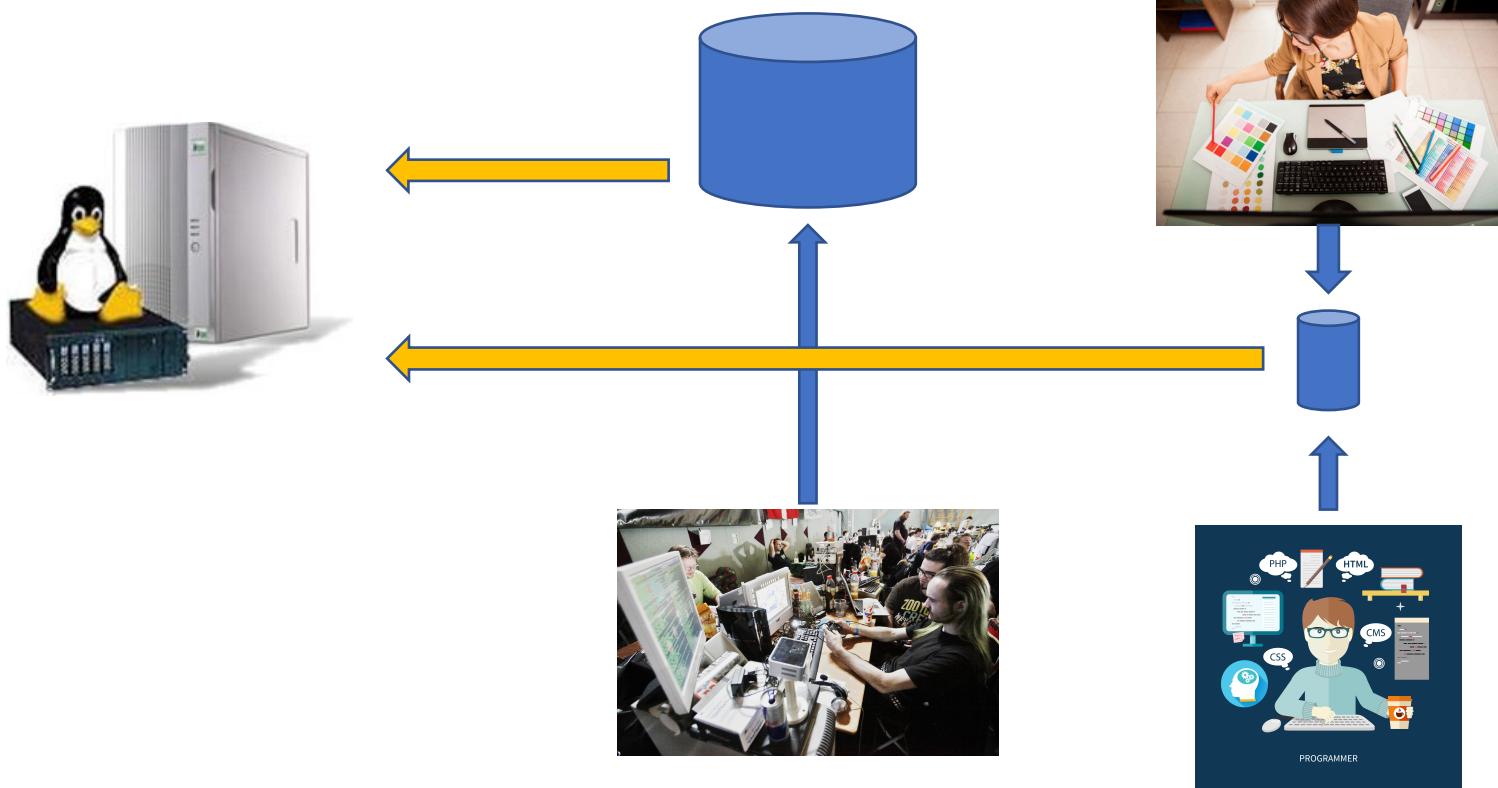
La utilidad de linux
“Top” es recomendable
para monitorear
actividad en el servidor
por tiempo real.



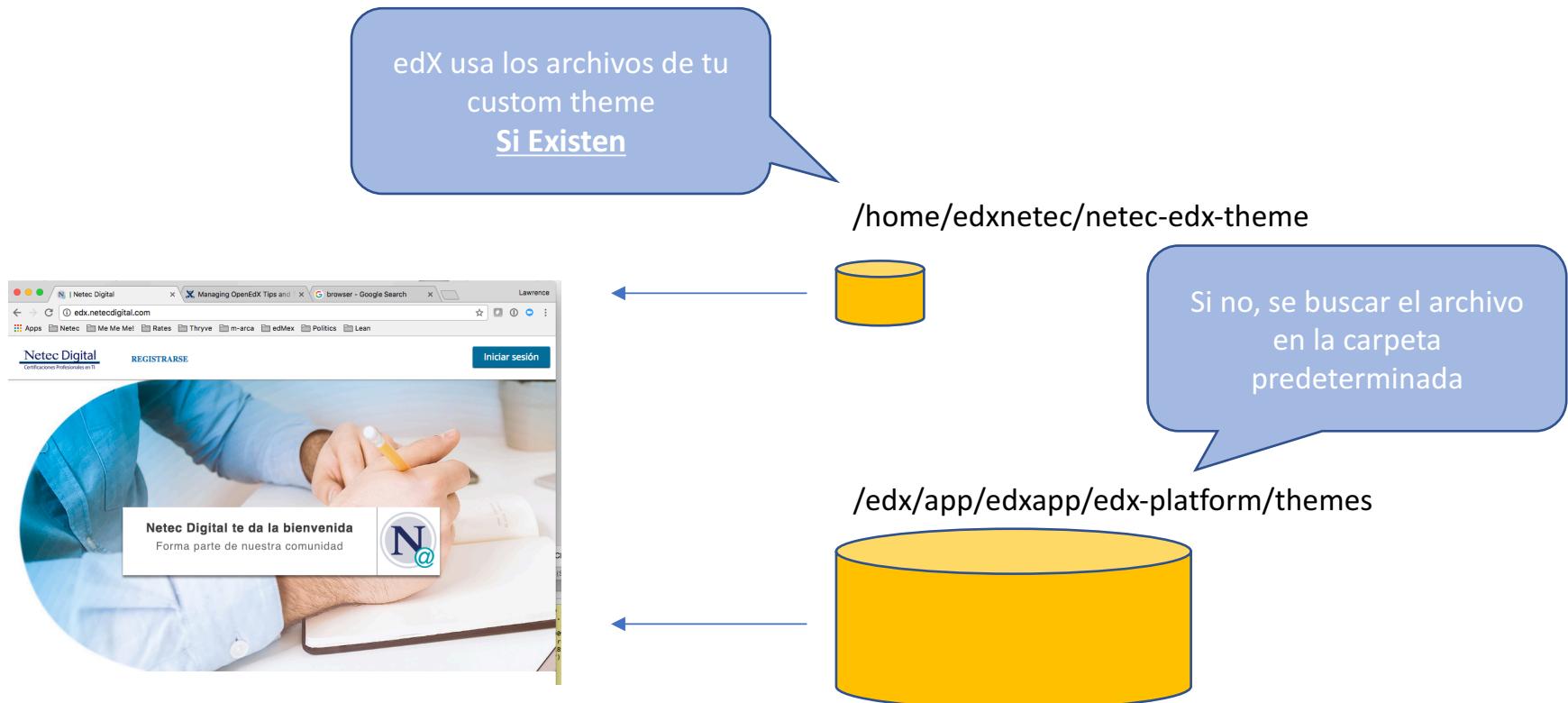
Continuous Integration Open edX



Continuous Integration con Netec Open edX



Comprehensive Theming



<https://www.slideshare.net/mbifulco1/edx-comprehensive-tutorial>