

# OxOffice Online







☐ OxOffice Online ☐

- OxOffice Online ☐ ☐ ☐ ☐ ☐ ☐

- CentOS 7 ( )
- Ubuntu 18.04 ( )
- CentOS 7 PVE LXC ( )
- Ubuntu 18.04 PVE LXC ( )
- CentOS 7 OxOffice Online v4
- Rocky Linux 8 OxOffice Online v4
- Ubuntu 20.04 OxOffice Online v4
- PVE LXC CentOS 7 OxOffice Online v4
- PVE LXC Rocky Linux 8 OxOffice Online v4
- PVE LXC Ubuntu 20.04 OxOffice Online v4

- OxOffice Online ☐☐☐☐

-  OoL SSL 
-  Nextcloud  OoL

- OxOffice Online ☐ ☐ ☐ ☐ ☐ ☐

- ☐ CentOS 7 ☐☐☐☐☐ OxOOL
- ☐ Ubuntu 18.04 ☐☐☐☐☐ OxOOL
- ☐ CentOS 7 ☐☐☐☐☐ OxOffice Online v4 ☐☐
- ☐ Rocky Linux 8 ☐☐☐☐☐ OxOffice Online v4 ☐☐
- ☐ Ubuntu 20.04 ☐☐☐☐☐ OxOffice Online v4 ☐☐

- OxOffice Online v4 [ ] [ ] [ ] [ ]

- OxOOL v4 [ ] [ ] [ ] [ ] [ ] [ ]

- OxOOL [ ] [ ] [ ] [ ] [ ] [ ]

- OxOffice Online [ ] [ ] [ ] [ ]

- OxOffice Online [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

# OxOffice Online



OxOffice Online (OxOOL) ☐☐☐

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Nextcloud 

Nextcloud 

https://docs.ossii.com.tw/books/nextcloud

# 在 CentOS 7 安裝 OxOffice Online (繁體中文)

- 本文介紹在 CentOS 7 安裝 OxOffice Online 2009 繁體中文 Minimal Desktop - 32 位元 CentOS 7 安裝步驟 [1] [2] [3]

安裝前請準備 IP 地址

- 以 root 權限執行以下指令 OxOOL Community 安裝

```
yum update -y
yum install vim net-tools unzip wget -y
cd /etc/yum.repos.d
wget http://www.oxoffice.com.tw/yum.repo/oxool-community.repo
yum update -y
yum groupinstall "OxOOL Community Group" -y
```

- SELinux

```
vim /etc/selinux/config # vim 編輯器
# SELinux=enforcing 關閉 enforcing 開啟 disabled 關閉 permissive 開啟
```

- firewalld 安裝 9980 port

```
firewall-cmd --zone=public --permanent --add-service=http
firewall-cmd --zone=public --permanent --add-port=9980/tcp
```

- 安裝 OxOOL

```
systemctl enable oxool
reboot
```

- 安裝完成後，以 root 權限執行 OxOOL Community 安裝

```
netstat -tlnp
```

□□□□

```
tcp    0    0  127.0.0.1:9981 0.0.0.0:* LISTEN  644/oxool
tcp6   0    0  :::9980        :::*   LISTEN  644/oxool
```

□□□□□□□□□□□□□□□□

□□□□□□ Nextcloud □□□□□□□□□□ Nextcloud 20 □□□□□□

# 安裝 Ubuntu 18.04 伺服器 (64 位元)

- 下載 Ubuntu 18.04 64 位元 Server 安裝檔 (1) (2)

安裝檔 IP 地址 [3]

- 用戶名 User 密碼 OxOOL Community

```
sudo apt update
sudo apt upgrade -y
sudo apt install vim openssh-server net-tools curl -y
# 安裝成功後，請輸入 yes
curl http://www.oxoffice.com.tw/apt/ubuntu/oxool-deb.key | sudo apt-key add
echo "deb [arch=amd64] http://www.oxoffice.com.tw/apt/ubuntu/ oxool-v3 main" > ~/oxool.list
sudo mv ~/oxool.list /etc/apt/sources.list.d/
sudo apt update
sudo apt install oxool oxoffice* -y
```

- 安裝完成後

```
sudo systemctl enable oxool
sudo reboot
```

- 安裝完成後 OxOOL Community

```
sudo netstat -tlnp
```

輸出結果

Active Internet connections (only servers)						
Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	127.0.0.1:9981	0.0.0.0:*	LISTEN	22383/oxool

tcp	0	0	127.0.0.53:53	0.0.0.0:*	LISTEN	6523/systemd-resolv
tcp	0	0	0.0.0.0:22	0.0.0.0:*	LISTEN	4389/ssh
tcp	0	0	127.0.0.1:25	0.0.0.0:*	LISTEN	2575/master
tcp6	0	0	:::9980	:::*	LISTEN	22383/oxool
tcp6	0	0	:::22	:::*	LISTEN	4389/sshd
tcp6	0	0	:::1:25	:::*	LISTEN	2575/master

██████ **ezgo** ██ **Franklin** ███ ~

██████ Nextcloud ██████████ Nextcloud 20 ████\_█

# CentOS 7 PVE LXC

( )

- PVE centos-7-default\_20190926\_amd64.tar.xz LXC

節點 'pve1' 上的儲存 'local'

概觀	<div>還原 移除 範本 上傳 顯示設定內容</div>
內容	名稱
權限	<div>ISO 映像 (5 Items)</div> <div>CentOS-7-x86_64-Minimal-1908.iso</div> <div>CentOS-8.1.1911-x86_64-boot.iso</div> <div>ubuntu-18.04.1-desktop-amd64.iso</div> <div>ubuntu-18.04.4-desktop-amd64.iso</div> <div>ubuntu-18.04.4-live-server-amd64.iso</div> <div>容器範本 (2 Items)</div> <div>centos-7-default_20190926_amd64.tar.xz</div> <div>ubuntu-18.04-standard_18.04.1-1_amd64.tar.gz</div>

- CT



## 建立: LXC 容器



一般

範本

啟始磁碟

CPU

記憶體

網路

DNS

確認

節點: pve1

CT ID: 105

主機名稱: oxool-lxc-test

無特權容器: ☐

資源集區:

密碼: .....

確認密碼: .....

SSH 公開金鑰:

載入 SSH 金鑰檔案

? 說明

進階 ☒

返回

繼續

## 建立: LXC 容器



一般

範本

啟始磁碟

CPU

記憶體

網路

DNS

確認

Key ↑	Value
cores	2
hostname	oxool-lxc-test
memory	2048
nameserver	8.8.8.8
net0	bridge=vbr0,name=eth0,ip=192.168.3.211/32,gw=192.168.3.1,firewall=1
nodename	pve1
ostemplate	local:vztmpl/centos-7-default_20190926_amd64.tar.xz
pool	
rootfs	OSSIIPVE1:8
searchdomain	8.8.8.8
swap	2048
vmid	105

☐ 建立完成後開機進階 ☒

返回

完成

## Task viewer: CT 105 - 建立



輸出

狀態

停止

```
extracting archive '/var/lib/vz/template/cache/centos-7-default_20190926_amd64.tar.xz'
Total bytes read: 422809600 (404MiB, 55MiB/s)
Detected container architecture: amd64
Creating SSH host key 'ssh_host_ecdsa_key' - this may take some time ...
done: SHA256:v9clm4/kbCbgeoJG1XG0zkt2GEgD4jQjVT7kh0ik0A0 root@oxool-lxc-test
Creating SSH host key 'ssh_host_rsa_key' - this may take some time ...
done: SHA256:DrDj/hQMM9jr8I3Td721i0CRtpHcGt6WkOJ4Hlo5z9s root@oxool-lxc-test
Creating SSH host key 'ssh_host_dsa_key' - this may take some time ...
done: SHA256:JxIzMaRfoPj2eoiYAXaQOSFNdn0eICnCH1L9gV60Ws root@oxool-lxc-test
Creating SSH host key 'ssh_host_ed25519_key' - this may take some time ...
done: SHA256:s6y4Na/X9+m95rUW85OM5QFc8cNnDQthVcQitUEDlBU root@oxool-lxc-test
TASK OK
```

- 安裝 (約 10 分鐘) 安裝

```
yum install vim openssh* net-tools unzip wget -y
cd /etc/yum.repos.d
wget --no-check-certificate http://www.oxoffice.com.tw/yum.repo/oxool-community.repo
yum update -y
yum groupinstall "OxOOL Community Group" -y
```

- 安裝

```
systemctl enable oxool
reboot
```

- 安裝 OxOOL Community 安裝

```
netstat -tlnp
```

安裝

Active Internet connections (only servers)

Proto	Recv-Q	Send-Q	Local Address	Foreign Address	State	PID/Program name
tcp	0	0	127.0.0.1:9981	0.0.0.0:*	LISTEN	1049/oxool
tcp6	0	0	:::9980	:::*	LISTEN	1049/oxool

安裝

→ 安裝

OxOOL 安裝

LXC 安裝

# Ubuntu 18.04 PVE LXC

（ ）

- PVE ubuntu-18.04-standard\_18.04.1-1\_amd64.tar.gz LXC

節點 'pve1' 上的儲存 'local'

概觀	<div>還原 移除 範本 上傳 顯示設定內容</div>
內容	名稱
權限	<div>ISO 映像 (5 Items)</div> <div>CentOS-7-x86_64-Minimal-1908.iso</div> <div>CentOS-8.1.1911-x86_64-boot.iso</div> <div>ubuntu-18.04.1-desktop-amd64.iso</div> <div>ubuntu-18.04.4-desktop-amd64.iso</div> <div>ubuntu-18.04.4-live-server-amd64.iso</div> <div>容器範本 (2 Items)</div> <div>centos-7-default_20190926_amd64.tar.xz</div> <div>ubuntu-18.04-standard_18.04.1-1_amd64.tar.gz</div>

- CT

## 建立: LXC 容器



一般

範本

啟始磁碟

CPU

記憶體

網路

DNS

確認

節點: pve1

CT ID: 105

主機名稱: oxool-lxc-test

無特權容器: ☐

資源集區:

密碼: .....

確認密碼: .....

SSH 公開金鑰:

載入 SSH 金鑰檔案

? 說明

進階 ☒

返回

繼續

## 建立: LXC 容器



一般

範本

啟動磁碟

CPU

記憶體

網路

DNS

確認

Key ↑	Value
cores	2
hostname	oxool-lxc-test
memory	2048
nameserver	8.8.8.8
net0	bridge=vbr0,name=eth0,ip=192.168.3.211/32,gw=192.168.3.1,firewall=1
nodename	pve1
ostemplate	local:vztmpl/ubuntu-18.04-standard_18.04.1-1_amd64.tar.gz
pool	
rootfs	OSSIIPVE1:8
searchdomain	8.8.8.8
swap	2048
vmid	105

☐ 建立完成後開機進階 ☒

返回

完成

## Task viewer: CT 105 - 建立



輸出

狀態

停止

```
extracting archive '/var/lib/vz/template/cache/ubuntu-18.04-standard_18.04.1-1_amd64.tar.gz'
Total bytes read: 637347840 (608MiB, 65MiB/s)
Detected container architecture: amd64
Creating SSH host key 'ssh_host_ed25519_key' - this may take some time ...
done: SHA256:MLsz7ueUypNPXlmVklTIp4dyuqt6d8Dr1UX7/UpHRDk root@oxool-lxc-test
Creating SSH host key 'ssh_host_ecdsa_key' - this may take some time ...
done: SHA256:dT5WqOKTfwu1jv25t+XhbwTJ8xVnSTpk5I3TwGfexuo root@oxool-lxc-test
Creating SSH host key 'ssh_host_dsa_key' - this may take some time ...
done: SHA256:deoBi6GkKZco02laOyGs15uTFJ8CanNyyQd51WZXO2I root@oxool-lxc-test
Creating SSH host key 'ssh_host_rsa_key' - this may take some time ...
done: SHA256:VDbC9Eps/5X6nFooOt7pjYdA1Qs9Vv3jhU8KM7uWfNM root@oxool-lxc-test
TASK OK
```

- 100MB (10 20 100MB) 100MB

```
apt update
apt upgrade -y
apt install vim openssh-server net-tools curl gnupg2 -y
# 100MB yes 100MB

curl http://www.oxoffice.com.tw/apt/ubuntu/oxool-deb.key | apt-key add
echo "deb [arch=amd64] http://www.oxoffice.com.tw/apt/ubuntu/ oxool-v3 main" > ~/oxool.list
mv ~/oxool.list /etc/apt/sources.list.d/
apt update
apt install oxool oxoffice* -y
```

- 100MB

```
systemctl enable oxool
reboot
```

- 100MB OxOOL Community 100MB

```
netstat -tlnp
```

100MB

```
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address      Foreign Address    State       PID/Program name
tcp        0      0 127.0.0.1:9981      0.0.0.0:*          LISTEN      22383/oxool
tcp6       0      0 :::9980             :::*               LISTEN      22383/oxool
```

100MB 100MB

→ 100MB 100MB

OxOOL 100MB

LXC 100MB

OxOffice Online 安装指南

# CentOS 7 安装 OxOffice Online v4 指南

安装环境：CentOS 7 64位 Minimal  
安装用户：root  
安装软件：OxOffice Online v4  
安装命令：sudo

```
sudo yum upgrade -y
sudo yum install vim net-tools unzip wget -y
cd /etc/yum.repos.d
sudo wget http://www.oxoffice.com.tw/rpm/el/oxool-community-v4-centos7.repo
sudo yum upgrade -y
sudo yum groupinstall "OxOOL Community Group" -y
```

## SELinux

```
sudo vim /etc/selinux/config # vim 编辑器
# SELinux=enforcing 强制 enforcing 强制 disabled 禁用 permissive 宽容
```

安装 OxOffice Online 9980 端口

```
sudo firewall-cmd --zone=public --permanent --add-service=http
sudo firewall-cmd --zone=public --permanent --add-port=9980/tcp
sudo firewall-cmd --reload
```

安装 OxOOL 服务

```
sudo systemctl enable oxoolwsd
sudo reboot
```

安装 netstat 工具 OxOOL 服务


```
sudo netstat -tlnp
```

安装 OxOOL 服务



```
tcp6  0  0  :::9980  :::*  LISTEN  644/oxool
```

Rocky Linux 8 

OxOffice Online v4 

```
sudo dnf config-manager --set-enabled powertools
sudo dnf upgrade -y
sudo dnf install epel-release -y
sudo dnf install vim net-tools unzip wget -y
cd /etc/yum.repos.d
sudo wget http://www.oxoffice.com.tw/rpm/el/oxool-community-v4-el8.repo
sudo dnf upgrade -y
sudo dnf groupinstall "OxOOL Community Group" -y
```

```
sudo vim /etc/selinux/config # vim
```

```
# SELinux=enforcing enforcing disabled permissive
```

```
sudo firewall-cmd --zone=public --permanent --add-service=http
sudo firewall-cmd --zone=public --permanent --add-port=9980/tcp
sudo firewall-cmd --reload
```

```
sudo systemctl enable oxoolwsd
sudo reboot
```

```
sudo netstat -tlnp
```

XXXXXXXXXX

OxOOL XXX

tcp6 0 0 :::9980XX :::\* LISTEN 644/oxool

OxOffice Online 繁體中文

# Ubuntu 20.04 繁體中文

## OxOffice Online v4 繁體中文

繁體中文

Ubuntu 20.04 繁體中文

Ubuntu Server 20.04 繁體中文

繁體中文

OxOffice Online v4 繁體中文

```
sudo apt update
sudo apt upgrade -y
sudo apt install vim openssh-server net-tools curl -y
# 繁體中文 yes
curl http://www.oxoffice.com.tw/deb/OSSII.key | sudo apt-key add
cd /etc/apt/sources.list.d/
sudo wget http://www.oxoffice.com.tw/deb/oxool-community-v4-focal.list
sudo apt update
sudo apt install oxool -y
```

繁體中文

OxOOL 繁體中文

```
sudo systemctl enable oxool
sudo reboot
```

netstat 繁體中文 OxOOL 繁體中文

```
sudo netstat -tlnp
```

繁體中文

OxOOL 繁體中文

```
tcp6  0  0  :::9980  :::*  LISTEN  644/oxool
```

 PVE  CT  CentOS 7  centos-7-default

範本

搜尋

類別	套件	版本	說明
Section: mail (2 Items)			
lxc	proxmox-mailgateway-6.4-standard	6.4-1	Proxmox Mailgateway 6.4
lxc	proxmox-mailgateway-7.0-standard	7.0-1	Proxmox Mailgateway 7.0
Section: system (19 Items)			
lxc	opensuse-15.3-default	20210925	LXC default image for opensuse 15.3 (20210925)
lxc	rockylinux-8-default	20210929	LXC default image for rockylinux 8 (20210929)
lxc	centos-7-default	20190926	LXC default image for centos 7 (20190926)
lxc	gentoo-current-openrc	20220622	LXC openrc image for gentoo current (20220622)
lxc	alpine-3.13-default	20210419	LXC default image for alpine 3.13 (20210419)
lxc	devuan-4.0-standard	4.0	Devuan 4.0 (standard)
lxc	debian-11-standard	11.3-1	Debian 11 Bullseye (standard)
lxc	devuan-3.0-standard	3.0	Devuan 3.0 (standard)
lxc	ubuntu-20.04-standard	20.04-1	Ubuntu Focal (standard)
lxc	ubuntu-16.04-standard	16.04.5-1	Ubuntu Xenial (standard)
lxc	alpine-3.15-default	20211202	LXC default image for alpine 3.15 (20211202)
lxc	debian-10-standard	10.7-1	Debian 10 Buster (standard)
lxc	alpine-3.14-default	20210623	LXC default image for alpine 3.14 (20210623)
lxc	fedora-34-default	20210427	LXC default image for fedora 34 (20210427)

下載

CentOS 7 

 概觀	<input type="button" value="範本"/>	<input type="button" value="上傳"/>	<input type="button" value="移除"/>
 備份	名稱		
 ISO 映像	centos-7-default_20190926_amd64.tar.xz		
 CT 範本			
 權限			

### 建立: LXC 容器

一般 範本 啟動磁碟 CPU 記憶體 網路 DNS **確認**

Key ↑	Value
cores	4
hostname	oxool-on-centos7
memory	2048
net0	name=eth0,bridge=vmbr0,firewall=1,ip6=dhcp,ip=dhcp
nodename	pvetest
ostemplate	local:vztmpl/centos-7-default_20190926_amd64.tar.xz
pool	
rootfs	PVE3:10
swap	2048
unprivileged	1
vmid	127

☐ 建立完成後開機

進階 ☐ 返回  完成

停止




LXC  root















netstat -OxOOL

0x00L 0000




 0x00L 
 LXC 

# PVE LXC Rocky Linux 8 OxOffice Online v4

PVE CT Rocky Linux 8 rockylinux-8-default

範本

搜尋

類別	套件	版本	說明
Section: mail (2 Items)			
lxc	proxmox-mailgateway-6.4-standard	6.4-1	Proxmox Mailgateway 6.4
lxc	proxmox-mailgateway-7.0-standard	7.0-1	Proxmox Mailgateway 7.0
Section: system (19 Items)			
lxc	alpine-3.14-default	20210623	LXC default image for alpine 3.14 (20210623)
lxc	centos-8-stream-default	20220327	LXC default image for centos 8-stream (20220327)
lxc	fedora-34-default	20210427	LXC default image for fedora 34 (20210427)
lxc	debian-10-standard	10.7-1	Debian 10 Buster (standard)
lxc	archlinux-base	202104...	ArchLinux base image.
lxc	almalinux-8-default	20210928	LXC default image for almalinux 8 (20210928)
lxc	centos-8-default	20201210	LXC default image for centos 8 (20201210)
lxc	ubuntu-18.04-standard	18.04.1-1	Ubuntu Bionic (standard)
lxc	devuan-4.0-standard	4.0	Devuan 4.0 (standard)
lxc	alpine-3.13-default	20210419	LXC default image for alpine 3.13 (20210419)
lxc	rockylinux-8-default	20210929	LXC default image for rockylinux 8 (20210929)
lxc	opensuse-15.3-default	20210925	LXC default image for opensuse 15.3 (20210925)
lxc	gentoo-current-openrc	20220622	LXC openrc image for gentoo current (20220622)
lxc	centos-7-default	20190926	LXC default image for centos 7 (20190926)

下載

Rocky Linux 8





停止




LXC  root










netstat -OxOOL

0x00L

# PVE LXC Ubuntu 20.04 OxOffice Online v4

PVE CT Ubuntu 20.4 ubuntu-20.04-standard

範本

搜尋

類別	套件	版本	說明
lxc	alpine-3.14-default	20210623	LXC default image for alpine 3.14 (20210623)
lxc	fedora-34-default	20210427	LXC default image for fedora 34 (20210427)
lxc	centos-8-stream-default	20220327	LXC default image for centos 8-stream (20220327)
lxc	ubuntu-18.04-standard	18.04.1-1	Ubuntu Bionic (standard)
lxc	centos-8-default	20201210	LXC default image for centos 8 (20201210)
lxc	almalinux-8-default	20210928	LXC default image for almalinux 8 (20210928)
lxc	archlinux-base	202104...	ArchLinux base image.
lxc	opensuse-15.3-default	20210925	LXC default image for opensuse 15.3 (20210925)
lxc	rockylinux-8-default	20210929	LXC default image for rockylinux 8 (20210929)
lxc	centos-7-default	20190926	LXC default image for centos 7 (20190926)
lxc	gentoo-current-openrc	20220622	LXC openrc image for gentoo current (20220622)
lxc	alpine-3.13-default	20210419	LXC default image for alpine 3.13 (20210419)
lxc	devuan-4.0-standard	4.0	Devuan 4.0 (standard)
lxc	debian-11-standard	11.3-1	Debian 11 Bullseye (standard)
lxc	devuan-3.0-standard	3.0	Devuan 3.0 (standard)
lxc	ubuntu-20.04-standard	20.04-1	Ubuntu Focal (standard)
lxc	ubuntu-16.04-standard	16.04.5-1	Ubuntu Xenial (standard)
lxc	alpine-3.15-default	20211202	LXC default image for alpine 3.15 (20211202)

下載

Ubuntu 20.04

節點 'pvetest' 上的儲存 'local'

建立: LXC 容器

一般

範本

啟動磁碟

CPU

記憶體

網路

DNS

確認

Key ↑	Value
cores	2
hostname	OxOOLonUbuntu20.04
memory	2048
net0	name=eth0,bridge=vbr0,firewall=1,ip6=dhcp,ip=dhcp
nodename	pvetest
ostemplate	local:vztmpl/ubuntu-20.04-standard_20.04-1_amd64.tar.gz
pool	
rootfs	PVE3:8
swap	2048
unprivileged	1
vmid	127

☐ 建立完成後開機

進階 ☐

返回

完成

停止




LXC  root

0x00L 

netstat -xOxOOL

0x00L



# OxOffice Online

 OxOffice Online 

# OxOOL SSL

OxOOL SSL hostname  
SSL

- SSL For Free SSL Let's Encrypt
- OxOOL /etc/oxool/ssl  
3
  - ca\_bundle.crt
  - certificate.crt
  - private.key
- vim /etc/oxool/oxoolwsd.xml <enable>  
<cert\_file\_path> <key\_file\_path> <ca\_file\_path> 4  
)

```
<ssl desc="SSL settings">
  <enable type="bool" desc="Controls whether SSL encryption is enable (do not disable for production
deployment). If default is false, must first be compiled with SSL support to enable."
default="true">true</enable>
  <termination desc="Connection via proxy where oxoolwsd acts as working via https, but actually uses http."
type="bool" default="true">false</termination>
  <cert_file_path desc="Path to the cert file" relative="false">/etc/oxool/ssl/certificate.crt</cert_file_path>
  <key_file_path desc="Path to the key file" relative="false">/etc/oxool/ssl/private.key</key_file_path>
  <ca_file_path desc="Path to the ca file" relative="false">/etc/oxool/ssl/ca_bundle.crt</ca_file_path>
  <cipher_list desc="List of OpenSSL ciphers to accept"
default="ALL:!ADH:!LOW:!EXP:!MD5:@STRENGTH"></cipher_list>
  <hpkp desc="Enable HTTP Public key pinning" enable="false" report_only="false">
    <max_age desc="HPKP's max-age directive - time in seconds browser should remember the pins"
enable="true">1000</max_age>
    <report_uri desc="HPKP's report-uri directive - pin validation failure are reported at this URL"
enable="false"></report_uri>
    <pins desc="Base64 encoded SPKI fingerprints of keys to be pinned">
      <pin></pin>
    </pins>
  </hpkp>
```

</ssl>

- `sudo systemctl restart oxoool`

# systemctl restart oxool

- `sudo systemctl restart oxool`

https://yourhostname:9980

- PS `sudo systemctl restart oxool` Nextcloud / ownCloud `sudo systemctl restart oxool` SSL `sudo systemctl restart oxool` OxOOL `sudo systemctl restart oxool`

1. `sudo systemctl restart oxool` richdocument `sudo systemctl restart oxool` FQDN `sudo systemctl restart oxool` IP `sudo systemctl restart oxool`
2. `sudo systemctl restart oxool` Nextcloud / ownCloud `sudo systemctl restart oxool` OxOOL `sudo systemctl restart oxool` SSL `sudo systemctl restart oxool` OxOOL `sudo systemctl restart oxool` `ca_bundle.crt` `sudo systemctl restart oxool` copy `sudo systemctl restart oxool` Nextcloud `sudo systemctl restart oxool` `ca-bundle.crt` `sudo systemctl restart oxool`

[nextcloud `sudo systemctl restart oxool` ]/resources/config/ca-bundle.crt



[illegible]

-  0x00L  /etc/oxool/oxoolwsd.xml 

A horizontal number line with a starting point marked by a solid black dot at the left end. To the right of this dot are 11 vertical tick marks, creating 11 equal intervals. No numbers are written on the line.

```
<host desc="Regex pattern of hostname to allow or deny." allow="true">117\.56\.68\.133</host>
<host desc="Regex pattern of hostname to allow or deny." allow="true">pdf\.nat\.gov\.tw</host>
```

-  OxOOL

```
# systemctl restart oxool
```

# OxOffice Online

[illegible]

OxOffice Online

OxOffice

# 一 CentOS 7 安装 OxOOL

- 安装 CentOS 7 (64位) 并安装 OxOOL  
安装 SELinux 并关闭 SELinux  
安装 OxOOL
- 安装 OxOOL

```
sudo systemctl stop oxool  
sudo systemctl disable oxool
```

- 安装 OxOOL 依赖

```
sudo yum install epel-release -y  
sudo yum update -y  
sudo yum install git yum-utils libpcap libcap-devel poco-devel ccache python36-polib python36-lxml -y  
sudo yum install libtool gcc-c++ fontconfig-devel cppunit-devel pam-devel rpm-build -y
```

- 安装 Node.js

```
curl -fsSL https://rpm.nodesource.com/setup_16.x | sudo bash -  
sudo yum install nodejs -y
```

- 克隆 OxOOL 仓库

```
git clone https://github.com/OSSII/oxool-community.git
```

- 安装 OxOOL

```
cd oxool-community  
./autogen.sh  
./configure  
make dist  
rpmbuild -tb oxool-x.x.x.tar.gz # 编译并安装  
clone 仓库  
oxool-3.2.11.tar.gz
```

■■■■■■■■

oxool-x.x.x.tar.gz ■■■■■■■■

- ■■■■ rpm ■■■■■■

~/rpmbuild/RPMS/x86\_64

■■■■■■■■■■■■■■■■■■■■

# 在 Ubuntu 18.04 安裝 OxOOL

- 在 Ubuntu 18.04 安裝 (系統) 安裝 Ubuntu 18.04 安裝 OxOOL 安裝
- 安裝 OxOOL

```
sudo systemctl stop oxool  
sudo systemctl disable oxool
```

- 安裝 git

```
sudo apt install git -y
```

- 安裝 OxOOL 安裝 clone

```
git clone https://github.com/OSSII/oxool-community.git
```

- 在 Ubuntu 18.04 安裝

```
cd oxool-community  
./install_build_require_ubuntu.sh
```

- 安裝 Node.js

```
curl -fsSL https://deb.nodesource.com/setup_16.x | sudo -E bash -  
sudo apt install -y nodejs
```

- 安裝 OxOOL

安裝 oxool-cummmunity 安裝

```
cd oxool-community  
./autogen.sh # 安裝 fontconfig libfontconfig1-dev Poco libpoco-dev
```

```
make -j2
```

```
[sudo] password for oxoffice:
```

make run

Ready to accept connections on port 9980.

- ☐ OoOOL deb ☐

[illegible]

```
debuild -b -uc -us # [ ] oxool-community [ ] git clean -
fdx [ ]
```

oxool-community [ ] [ ] [ ] git clean -

 deb 

```
cd ..  
ls oxool_3.x.x-1.community_amd64.deb
```

```
ls oxool_3.x.x-1.community_amd64.deb
```

OxOffice Online

# CentOS 7

## OxOffice Online v4

CentOS 7

root devtoolset-11 GCC GCC 8

```
sudo yum upgrade -y
sudo yum install vim net-tools unzip wget -y
cd /etc/yum.repos.d
sudo wget http://www.oxoffice.com.tw/rpm/el/oxool-community-v4-centos7.repo
sudo yum install epel-release -y
sudo yum upgrade -y
sudo yum install git yum-utils libpcap libcap-devel libgit2-devel poco-devel ccache python36-devel python36-
polib python36-lxml -y
sudo yum install libtool gcc-c++ fontconfig-devel cppunit-devel pam-devel rpm-build -y
sudo yum install oxoffice* poco* gumbo* -y
sudo yum install centos-release-scl
sudo yum install devtoolset-11
```

### SELinux

```
vim /etc/selinux/config # vim
# SELinux=enforcing enforcing disabled permissive
```

### Node.js

```
curl -fsSL https://rpm.nodesource.com/setup_16.x | sudo bash -
sudo yum install nodejs -y
```

### OxOffice Online v4 clone

```
git clone https://github.com/OSSII/oxool-community.git
cd oxool-community
```



```
git checkout v4
```

□□ OxOffice Online v4 □□□□□□

[illegible]

```
scl enable devtoolset-11 bash
```

```
./autogen.sh
```

```
./configure
```

make dist

```
rpmbuild -tb oxool-x.x.x.tar.gz
```

□□□□ RPM □□□□□□□□

```
~/rpmbuild/RPMS/x86_64
```

RPM

OxOffice Online

# Rocky Linux 8

## OxOffice Online v4

Rocky Linux 8 Rocky Linux 8

root

```
sudo dnf config-manager --set-enabled powertools
sudo dnf upgrade -y
sudo dnf install vim net-tools unzip wget -y
cd /etc/yum.repos.d
sudo wget http://www.oxoffice.com.tw/rpm/el/oxool-community-v4-el8.repo
sudo dnf install epel-release -y
sudo dnf upgrade -y
sudo dnf install git yum-utils libpcap libcap-devel libgit2-devel poco-devel ccache python3-devel python3-polib
python3-lxml -y
sudo dnf install libtool gcc-c++ fontconfig-devel cppunit-devel pam-devel rpm-build -y
sudo dnf install oxoffice* poco* gumbo* -y
```

SELinux

```
vim /etc/selinux/config # vim
# SELinux=enforcing enforcing disabled permissive
```

Node.js

```
sudo dnf module enable nodejs:18 -y
sudo dnf install nodejs -y
```

OxOffice Online v4 clone

```
git clone https://github.com/OSSII/oxool-community.git
cd oxool-community
git switch v4
```

OxOffice Online v4

```

./autogen.sh
./configure
make dist
rpmbuild -tb oxool-x.x.x.tar.gz

```

RPM

```

~/rpmbuild/RPMS/x86_64

```

RPM

OxOffice Online

# Ubuntu 20.04

## OxOffice Online v4

Ubuntu 20.04 Ubuntu Server 20.04

```
sudo apt update
sudo apt upgrade -y
sudo apt install vim openssh-server net-tools curl git -y
# yes
curl http://www.oxoffice.com.tw/deb/OSSII-2022.key | sudo apt-key add
cd /etc/apt/sources.list.d/
sudo wget http://www.oxoffice.com.tw/deb/oxool-community-v4-focal.list
sudo apt update
sudo apt install oxoffice* libpoco-dev libgumbo-dev
```

```
sudo apt update
sudo apt install -y build-essential libsqlite3-dev libcurl4-openssl-dev libcppunit-dev libcap-dev libcap2-bin libgit2-dev libtool libpng-dev automake m4 wget curl autoconf pkg-config openssl libgumbo-dev ccache fontconfig libfontconfig1-dev libpam-dev
sudo apt install -y devscripts debhelper dh-systemd dh-exec
sudo apt install -y libodbc1 libpcre16-3 libpcre3-dev libpcre32-3 libpcrecpp0v5
sudo apt install -y hunspell
sudo apt install -y python3-polib python3-lxml
```

Node.js

```
cd ~
curl -fsSL https://deb.nodesource.com/setup_lts.x | sudo -E bash -
sudo apt install -y nodejs
```

OxOffice Online v4

clone

```
cd ~  
git clone https://github.com/OSSII/oxool-community.git  
cd oxool-community  
git switch v4
```

□□ OxOffice Online v4 □□

```
debuild -b -uc -us
```

deb

```
cd ..  
ls oxool_4.x.x-1.community_amd64.deb
```

DEB

Node.js/npm

```
cd loleaflet
npm install
cd archived-packages
npm install
cd ..
touch node_modules
```

# OxOffice Online v4



OxOffice Online Module SDK  OxOffice Online 

# OxOOL v4

## 

- `oxool-community` `oxool`
  - `autogen.sh` `configure` `autogen.sh` `--enable-debug` `ModuleTesting`
  - `rpmbuild` `debuild` `oxool` `oxool-dev`
- `oxool-dev` `oxool-dev` `oxool-module-maker`

## oxool-module-maker

## 

- `oxool-module-maker`
  - `--module-name=name` : `^[w\@#]+$` `0-9` `#` `@` `'-'`
  - `--serviceURI=serviceURI` : `/` `"/oxool/user/"` `/oxool/user/add` `/oxool/user/del` `/oxool/user/update` `/`
  - `--version=version` : `"0.0.1"`
  - `--summary=summary` : `Summary` `rpm`
  - `--description=Description` : `Description` `deb`
  - `--author=author` : `git` `user.name` `user.email`
  - `--license=license` : `MPLv2.0`
  - `--adminPrivilege=true/false` : `admin` `false`
  - `--adminIcon=icon` : `getbootstrap.com` `"bug-fill"`
  - `--adminItem=text` :
  - `--template-path=path` : `/usr/share/oxool-`

devel/module-template

- o --output-path=path : ~
- o

oxool-module-maker --module-name="samplemod" --serviceURI="/oxool/samplemod/" --summary="A sample moudle service on OxOOL" --description="A sample module service on OxOOL" --output-path="/home/oxool/git"

- output-path git repository template-path



- autogen.sh configure Makefile
- make
- oxool-community make run oxool
- ./test.sh < XML > test.sh oxool  
ModuleTesting XML ModuleTesting oxool  
.so .libs/ .so serviceURI  
http://127.0.0.1:9980/oxool/samplemod/
- test.sh .so oxool



# OxOOL

OxOOL

## OxOOL

oxool-module-maker oxool-dev

- ModuleConfiguration.md :  
module.xml.in : configure XML oxool-module-maker XML  
ModuleConfiguration.md autogen.sh configure  
module.spec.in : rpm spec  
debian/\* : deb  
admin/\* :  
 <adminItem> oxool-module-maker --adminItem  
README.md  
src/\* : C++ .so OxOOL  
html/\* : C++  
index.html  
test.sh : XML OxOOL

## OxOOL C++

oxool-module-maker src Module.cpp

- getVersion() :  
initialize() :  
handleRequest() : Client  
handleAdminRequest() :  
handleAdminMessage() : websocket

# OxOffice Online

OxOOL /etc/oxool/oxoolwsd.xml

```
<allowed_languages>
  de_DE en_GB en_US es_ES fr_FR it nl pt_BR pt_PT ru
</allowed_languages>

<sys_template_path>
  systemtemplate
  LibreOfficeKit LibreOffice
</sys_template_path>

<child_root_path>
  child_root_path
  chroot jails systemtemplate
</child_root_path>

<mount_jail_tree>
  true
  systemtemplate lotemplate
</mount_jail_tree>

<server_name>
  oxoolwsd
</server_name>

<client_port_number>
  9980
  OxOOL
</client_port_number>

<file_server_root_path>
```

```
<file_server_root_path>  
    <loleaflet..>  
    root <>  
    loleaflet <>  
</file_server_root_path>  
  
<hexify_embedded_urls>  
    false  
    URL <> Azure <>  
</hexify_embedded_urls>  
  
<convert_to>  
    false  
</convert_to>  
  
<mempportion>  
    80.0  
    OxOffice <>  
</mempportion>  
  
<num_prespawn_children>  
    1  
</num_prespawn_children>  
  
<per_document>  
    OxOffice <>  
  
<max_concurrency>  
    8  
</max_concurrency>  
  
<batch_priority>  
    5  
    convert-to<>  
</batch_priority>  
  
<document_signing_url>  
    URL<>
```

</document\_signing\_url>

<redlining\_as\_comments>

☐ true

☐ true☐

</redlining\_as\_comments>

<idle\_timeout\_secs>

☐ 3600

☐ 1☐

</idle\_timeout\_secs>

<idlesave\_duration\_secs>

☐ 1800

☐ 30☐ 0☐

</idlesave\_duration\_secs>

<autosave\_duration\_secs>

☐ 1800

☐ 300☐ 0☐

</autosave\_duration\_secs>

<always\_save\_on\_exit>

☐ false

☐ false☐

</always\_save\_on\_exit>

<limit\_virt\_mem\_kb>

☐ 0

☐ 0☐ 1700kb☐

</limit\_virt\_mem\_kb>

<limit\_stack\_mem\_kb>

☐ 8000

☐ stack☐ 0☐

</limit\_stack\_mem\_kb>

<limit\_file\_size\_mb>

☐ 0

☐ 0☐

</limit\_file\_size\_mb>

<limit\_num\_open\_files>

0

0

</limit\_num\_open\_files>

<limit\_load\_secs>

100

0

</limit\_load\_secs>

<limit\_convert\_secs>

100

0

</limit\_convert\_secs>

<cleanup>

false

LibreOfficeKit

<cleanup\_interval\_ms>

10000

</cleanup\_interval\_ms>

<bad\_behavior\_period\_secs>

60

LibreOfficeKit

</bad\_behavior\_period\_secs>

<idle\_time\_secs>

300

</idle\_time\_secs>

<limit\_dirty\_mem\_mb>

3072

MB

</limit\_dirty\_mem\_mb>

<limit\_cpu\_per>

85

CPU

</limit\_cpu\_per>

</cleanup>

</per\_document>

<per\_view>

████████████████████

<out\_of\_focus\_timeout\_secs>

██ 60

██

</out\_of\_focus\_timeout\_secs>

<idle\_timeout\_secs>

██ 900

██

</idle\_timeout\_secs>

</per\_view>

<loleaflet\_html>

██ loleaflet.html

██ OxOffice Online

██

/usr/share/oxool/loleaflet/dist/

</loleaflet\_html>

<logging>

██████████████████

<color>

██ true

██████████████████

</color>

<level>

██ warning

██████ level██████ 0-8██████ none██████ fatal| critical| error| warning

| notice| information| debug| trace|

</level>

<protocol>

██ false

JavaScript

&lt;lokit\_sal\_log&gt;

LibreOfficeKit ██████████

□□ OxOffice Online □□□□□□

Poco □ FileChannel □□□

[illegible]

```
<property name="times">
```

local    utc



```
<property name="purgeCount">
```

☐ none ☐

```
<property name="rotateOnOpen">
```

```
<property name="flush">
```

log flush

log

[illegible]

&lt;/file&gt;

<anonymize>

<anonymize\_user\_data>

    false

false

</anonymize\_user\_data>

<anonymization\_salt>

    82589933

salt    64

</anonymization\_salt>

</anonymize>

</logging>

<loleaflet\_logging>

    false

</loleaflet\_logging>

<trace\_event>

    false

    Chrome Trace Event

    <path>

    </path>

</trace\_event>

<trace>

    false

    <path>

    </path>

<filter>

<message>

</message>



</filter>

<outgoing>

<record>

☐ false

☐

</record>

</outgoing>

</trace>

<net>

☐

<proto>

☐ all

☐ IPv4 ☐ IPv6 ☐

</proto>

<listen>

☐ any

☐ any ☐ loopback ☐

</listen>

<service\_root>

☐

☐ websocket ☐

</service\_root>

<proxy\_prefix>

☐ false

☐ ProxyPrefix ☐

</proxy\_prefix>

<post\_allow>

☐ true

☐ POST(REST) ☐ IP ☐

<host>

☐

192\168\.[0-9]{1,3}\.[0-9]{1,3}

::ffff:192\168\.[0-9]{1,3}\.[0-9]{1,3}

127\0\0\0.1

&lt;/key\_file\_path&gt;

```
<ca_file_path>
    /etc/oxool/ca-chain.cert.pem
    ca 
</ca_file_path>

<cipher_list>
    ALL:!ADH:!LOW:!EXP:!MD5:@STRENGTH
    OpenSSL 
</cipher_list>

<hpkp>
    HPKP
    <max_age>
        1000
        HPKP max-age  pins 
    </max_age>
    <report_uri>
        HPKP report-uri  pin  URL
    </report_uri>
    <pins>
        pin  Base64  SPKI 
    </pin>
</pins>
</hpkp>
</ssl>
```

```
<security>
    <seccomp>
        true
        seccomp  filtering
    </seccomp>
```

```
<capabilities>
    true
    chroot jails 
</capabilities>
```

```
<jwt_expiry_sec>
```

&lt;/jwt\_expiry\_sec&gt;

```
<enable_macros_execution>
```

☐ false

☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Basic ☐ Beanshell ☐ JavaScript ☐ Python ☐ ☐ ☐ ☐ ☐ ☐ false ☐ ☐ ☐ ☐

macro\_security\_level [ ] true [ ]

&lt;/enable\_macros\_execution&gt;

<macro\_security\_level>

1





&lt;/macro\_security\_level&gt;

```
<enable_metrics_unauthenticated>
```

☐ ☐ ☐ false

□□□□□□ /oxool/getMetrics □□□□□□

&lt;/enable\_metrics\_unauthenticated&gt;

&lt;/security&gt;

<watermark>

<editing>

☐ ☐ ☐ false

</editing>

```
<printing>
```

☐ ☐ ☐ false

PDF GENERATED BY 

&lt;/printing&gt;

<opacity>

0.2

&lt;/opacity&gt;

<angle>

☐ 45

☐

</angle>

<font>

☐

☐

</font>

<color>

☐ #000000

☐

</color>

<bold>

☐ false

☐

</bold>

<italic>

☐ false

☐

</italic>

<outline>

☐ false

☐

</outline>

<shadow>

☐ false

☐

</shadow>

<text>

☐

☐

</text>

</watermark>

<welcome>

[illegible]

<enable>

&lt;/enable&gt;

```
<enable_button>
```

&lt;/enable\_button&gt;

<path>

lomeaflet/welcome

&lt;/path&gt;

&lt;/welcome&gt;

```
<user_interface>
```

<pdf\_viewer\_resolution\_dpi>

□□□	600
-----	-----

PDF  DPI

</pdf\_viewer\_resolution\_dpi>

<use\_integration\_theme>

☐ ☐ ☐ false

Nextcloud Office 

&lt;/user\_interface&gt;

<storage>

<filesystem>

☐ ☐ ☐ false

00000000	OxOffice Online	00000000000000000000000000000000	false
----------	-----------------	----------------------------------	-------

<wopi>

```
[[1]] true
```

webdav 儲存空間 wopi storage 儲存空間

<host>

儲存空間

true:

localhost

127\0\0\1

10\.[0-9]{1,3}\.[0-9]{1,3}\.[0-9]{1,3}

172\1[6789]\.[0-9]{1,3}\.[0-9]{1,3}

172\2[0-9]\.[0-9]{1,3}\.[0-9]{1,3}

172\3[01]\.[0-9]{1,3}\.[0-9]{1,3}

192\168\.[0-9]{1,3}\.[0-9]{1,3}

false:

192\168\1\1

儲存空間 wopi host 儲存空間 IP 儲存空間 IP 儲存空間 .儲存空間 \儲存空間

www.ossii.com.tw儲存空間 wopi host 儲存空間 www\ossii\com\tw儲存空間

</host>

<max\_file\_size>

儲存空間 0

儲存空間 0 儲存空間

</max\_file\_size>

<reuse\_cookies>

儲存空間 false

儲存空間 cookies儲存空間 WOPI 儲存空間

</reuse\_cookies>

<locking>

儲存空間

<refresh>

儲存空間 900儲存空間 15儲存空間 0 儲存空間

</refresh>

</locking>

</wopi>

<webdav>

儲存空間 false

儲存空間 webdav storage儲存空間 wopi 儲存空間

<host>

```

    <false> localhost
    <webdav_host> <IP> <IP> .\
    <webdav_host> www.ossii.com.tw <webdav_host> www.ossii.com.tw
  </host>
</webdav>
<ssl>
  <OxOfficeOnline> <SSL>
    <as_scheme>
      <true>
        <WOPI_URI> <SSL>
      </as_scheme>
    <enable>
      <false>
        <SSL>
      </enable>

    <cert_file_path>
      </etc/oxool/cert.pem>
    </cert_file_path>

    <key_file_path>
      </etc/oxool/key.pem>
    </key_file_path>

    <ca_file_path>
      </etc/oxool/ca-chain.cert.pem>
      <ca>
    </ca_file_path>

    <cipher_list>
      <ALL:!ADH:!LOW:!EXP:!MD5:@STRENGTH>
      <OpenSSL>
    </cipher_list>
  </ssl>
</storage>

  <tile_cache_persistent>
    <true>

```



session

tile cache

</tile\_cache\_persistent>

<admin\_console>

OxOffice Online

http(s)://youroxoolip:9980/loleaflet/dist/admin/admin.html

<enable>

true

</enalbe>

<enable\_pam>

false

PAM

</enalbe\_pam>

<username>

admin

PAM

</username>

<password>

@administrator1

PAM oxoolconfig

</password>

</admin\_console>

<monitors>

</monitors>

# OxOffice Online

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[illegible]



 OxOffice Online 

確定


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## 管理主控臺

**概覽**

分析

目 誌

 字型管理

版本：4.0.0(community)  
核心：OxOffice R9S7(9.7.1-1)

Diagram illustrating the distribution of 1000 nodes across different components:

- Top row: 1000 nodes (represented by 1000 small squares).
- Bottom row: 1000 nodes (represented by 1000 small squares) distributed across:
  - OXOffice Online (100 nodes)
  - OXOffice (100 nodes)
  - Other components (800 nodes)

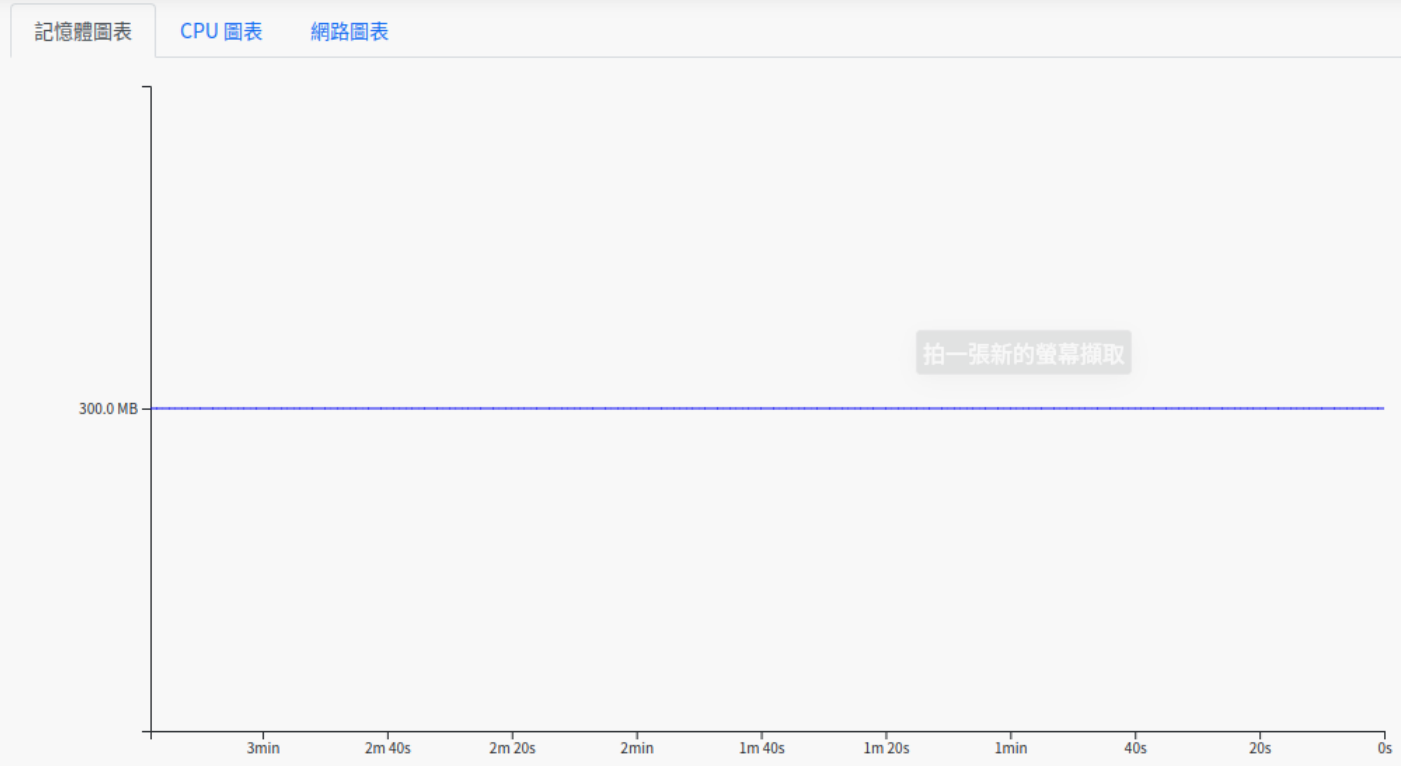

 Türkiye Cumhuriyeti  
 Millî Eğitim Bakanlığı

線上使用者	開啟的文件	消耗的記憶體	已傳送的流量	已接收的流量	服務時間
0	0	300.0 MB	20.2 MB	590.0 kB	115:51 小時

開啟的文件		線上使用者					
	開啟者	PID	文件	消耗的記憶體	經過的時間	閒置時間	最後修改

The diagram illustrates three different ways to represent the text "OxOffice Online" using a mix of characters and symbols. The first row shows the text "OxOffice Online" with various symbols interspersed. The second row shows the text "OxOffice Online" with various symbols interspersed. The third row shows the text "OxOffice Online" with various symbols interspersed.


 Türkiye Cumhuriyeti  
 Millî Eğitim Bakanlığı



0s  
1min 1

CPU

CPU

CPU



無

## 設定紀錄層級

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更新紀錄層級

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5 個檔案 10 個字型

[illegible]

OxOffice

