

- [OxOffice Online v4 \[\] \[\] \[\] \[\]](#)

- [OxOOL v4 \[\] \[\] \[\] \[\] \[\] \[\]](#)

- [OxOOL \[\] \[\] \[\] \[\] \[\] \[\]](#)

- [OxOffice Online \[\] \[\] \[\] \[\]](#)

- [OxOffice Online \[\] \[\] \[\] \[\] \[\] \[\] \[\] \[\]](#)

OxOffice Online ????????

XXXXXXXXXXXXXXXX

OxOffice Online (OxOOL) XX

XXXXXX

Nextcloud XXXXXXXX

Nextcloud XXXXXXXX

<https://docs.ossii.com.tw/books/nextcloudXXXXXXXXXXXX>


```
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](#) ■■■■_■

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](#) ████ █

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

資源集區:

CT ID: 105

密碼:

主機名稱: oxool-lxc-test

確認密碼:

無特權容器:

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:v9clmA/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
```

- `vim` (10 `vim`)`vim`

```

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

```

- `vim`

```

systemctl enable oxool
reboot

```

- `vim` OxOOL Community `vim`

```
netstat -tlnp
```

`vim`

```

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

```

`vim`

→`vim`

OxOOL `vim`

LXC `vim`

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

資源集區:

CT ID: 105

密碼:

主機名稱: oxool-lxc-test

確認密碼:

無特權容器:

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=vibr0,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:deoBi6GkkZco02laOyGs15uTFJ8CanNyvQd51WZXO2I 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
```


? PVE ? LXC ?? CentOS 7 ????? OxOffice Online v4 ???

[Progress Bar] PVE [Progress Bar] CT [Progress Bar] CentOS 7 [Progress Bar] centos-7-default
[Progress Bar]

範本 [Close]

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

[Progress Bar] CentOS 7 [Progress Bar]

概觀 範本 上傳 移除

備份

ISO 映像

CT 範本

權限

名稱

centos-7-default_20190926_amd64.tar.xz

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=vibr0,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

Task viewer: CT 127 - 建立

輸出 狀態

```
extracting archive 'var/lib/vz/template/cache/centos-7-default_20190926_amd64.tar.xz'  
Total bytes read: 422809600 (404MiB, 54MiB/s)  
Detected container architecture: amd64  
Creating SSH host key 'ssh_host_dsa_key' - this may take some time ...  
done: SHA256:T6s473iZKCeEsRrJeDrAaWYZK/YB7c5+/GrFdfKH0Xs root@oxool-on-centos7  
Creating SSH host key 'ssh_host_ecdsa_key' - this may take some time ...  
done: SHA256:jiyyp9DzarL6kW6+AuNjL66RRIGq4RnkKM/JZH0yDnc root@oxool-on-centos7  
Creating SSH host key 'ssh_host_rsa_key' - this may take some time ...  
done: SHA256:5CPVS8QZUrS6KIWBByInwdteu7GUhj9dpppFvww6G6e4 root@oxool-on-centos7  
Creating SSH host key 'ssh_host_ed25519_key' - this may take some time ...  
done: SHA256:Kuf+innUbnLSHxp3YldvKkpmv8zPf5CP/OVF5keUEvQ root@oxool-on-centos7  
TASK OK
```

```
yum install vim openssh* net-tools unzip wget -y  
cd /etc/yum.repos.d
```


? PVE ? LXC ?? Rocky Linux 8 ???? OxOffice Online v4 ???

[Progress Bar] PVE [Progress Bar] CT [Progress Bar] Rocky Linux 8 [Progress Bar] rockylinux-8-default [Progress Bar]

範本 [Close]

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)

[Download]

[Progress Bar] Rocky Linux 8 [Progress Bar]

- [Icon] 概觀
- [Icon] 備份
- [Icon] ISO 映像
- [Icon] CT 範本
- [Icon] 權限

[範本] [上傳] [移除]

名稱

rockylinux-8-default_20210929_amd64.tar.xz

[Progress Bar] CT [Progress Bar] LXC [Progress Bar]

XXXXXXXXXX CTXXXX LXC
XX

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=vibr0,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

Task viewer: CT 127 - 建立 ⊗

輸出 狀態

停止

```
extracting archive 'var/lib/vz/template/cache/rockylinux-8-default_20210929_amd64.tar.xz'  
Total bytes read: 692172800 (661MiB, 52MiB/s)  
Detected container architecture: amd64  
unknown ID 'rocky' in /etc/os-release file, trying fallback detection  
Creating SSH host key 'ssh_host_dsa_key' - this may take some time ...  
done: SHA256:4DLGpYJCoybKkz51KEICjwF30+QLFNuTJmAINCtB9c root@oxoolonrockylinux8  
Creating SSH host key 'ssh_host_ecdsa_key' - this may take some time ...  
done: SHA256:38ebIpM0zc5pxDHNTK3jURvcpYAfz5z2RnatwZ68WUY root@oxoolonrockylinux8  
Creating SSH host key 'ssh_host_rsa_key' - this may take some time ...  
done: SHA256:vmA4mr60r73+ZLEYaogrs5ycD8iUIJmF8d8O9lw52as root@oxoolonrockylinux8  
Creating SSH host key 'ssh_host_ed25519_key' - this may take some time ...  
done: SHA256:G9BK+7/TqLFTM49GNGwoUppdaBMyB0Oe8Frvly33IZw root@oxoolonrockylinux8  
TASK OK
```

XXXXXXXXXXXX LXC XXXX root
XX


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


OxOffice Online ?????

□ OxOffice Online □□□□□□□□

???? OxOOL SSL ??

OxOOL SSL hostname
SSL

- [SSL For Free](#) [SSL](#) [Let's Encrypt](#)

- OxOOL /etc/oxool/ssl

3

- o ca_bundle.crt
- o certificate.crt
- o 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">
```


? CentOS 7 ????? OxOOL

- CentOS 7 () CentOS 7 OxOOL
SELinux root
- OxOOL

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

- OxOOL

```
sudo yum install epel-release -y  
sudo yum update -y  
sudo yum install git yum-utils libcap 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
```

- Node.js

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

- OxOOL clone

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

- OxOOL

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

- rpm

~/rpmbuild/RPMS/x86_64



? Ubuntu 18.04 ?????? OxOOL

- [REDACTED] [Ubuntu 18.04 \[REDACTED\] \(\[REDACTED\]\) \[REDACTED\]](#) Ubuntu 18.04 [REDACTED] OxOOL [REDACTED]

- [REDACTED] OxOOL

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

- [REDACTED] git [REDACTED]

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

- [REDACTED] OxOOL [REDACTED] clone [REDACTED]

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

- [REDACTED] Ubuntu 18.04 [REDACTED]

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

- [REDACTED] Node.js

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

- [REDACTED] OxOOL

[REDACTED] oxool-cummunity [REDACTED]

```
cd oxool-community
./autogen.sh # [REDACTED] fontconfig [REDACTED] libfontconfig1-dev [REDACTED] Poco [REDACTED] libpoco-dev
make -j2
```

[REDACTED]

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


OxOffice Online []

? CentOS 7 ????? OxOffice Online v4 ???

```
[ ] CentOS 7
[ ]
root [ ] devtoolset-11 [ ] GCC [ ] 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 □□□□□□

devtoolset-11 □□□□□□□□□□□□

```
scl enable devtoolset-11 bash
./autogen.sh
./configure
make dist
rpmbuild -tb oxool-x.x.x.tar.gz
```

□□□□ RPM □□□□□□□□

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

□□ RPM □□□□□□□□

? Rocky Linux 8 ????? OxOffice Online v4 ???

[REDACTED] Rocky Linux 8 [REDACTED] [Rocky Linux 8 \[REDACTED\]](#)

[REDACTED]

[REDACTED] root [REDACTED]

```
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* -y
```

[REDACTED] SELinux

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

[REDACTED] Node.js

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

[REDACTED] OxOffice Online v4 [REDACTED] clone [REDACTED]

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

[REDACTED] OxOffice Online v4 [REDACTED]

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

■■■■ RPM ■■■■■■■■

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

■■■ RPM ■■■■■■■■


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

■■■■ RPM ■■■■■■■■

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

■■■ RPM ■■■■■■■■

? Rocky Linux 8 ?????? OxOffice Online v5 ???

[REDACTED] Rocky Linux 8 [REDACTED] [Rocky Linux 8 \[REDACTED\]](#)

[REDACTED]

[REDACTED] root [REDACTED]

```
sudo dnf config-manager --set-enabled powertools
sudo dnf upgrade -y
sudo dnf install vim net-tools unzip wget -y
sudo wget -P /etc/yum.repos.d http://www.oxoffice.com.tw/rpm/el/oxool-community-v5-el8.repo
sudo dnf install epel-release -y
sudo dnf upgrade -y
sudo dnf install make git yum-utils libpcap libcap-devel libgit2-devel libzstd-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* -y
```

[REDACTED] SELinux

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

[REDACTED] Node.js

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

[REDACTED] OxOffice Online v5 [REDACTED] clone [REDACTED]

```
git clone https://github.com/OSSII/oxool-community.git
cd oxool-community
git switch v5
```

[REDACTED] OxOffice Online v5 [REDACTED]

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

■■■■ RPM ■■■■■■■■

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

■■■ RPM ■■■■■■■■

OxOffice Online [REDACTED]

? Ubuntu 24.04 ?????? OxOffice Online v5 ???

[REDACTED] Ubuntu 24.04 [REDACTED]

```
sudo apt update
sudo apt upgrade -y
sudo apt install vim openssh-server net-tools curl git -y
# [REDACTED] yes [REDACTED]
sudo curl -o /etc/apt/keyrings/OSSII.asc http://www.oxoffice.com.tw/deb/OSSII.key
sudo curl -o /etc/apt/sources.list.d/oxool-community-v5-noble.list
http://www.oxoffice.com.tw/deb/oxool-community-v5-noble.list
sudo apt update
sudo apt install oxoffice* libpoco-dev libgumbo-dev
```

[REDACTED]

```
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 autoconf pkg-config openssl
libgumbo-dev ccache fontconfig libfontconfig1-dev libpam-dev
sudo apt install -y devscripts debhelper dh-exec
sudo apt install -y libpcre16-3 libpcre3-dev libpcre32-3 libpcrecpp0v5
sudo apt install -y hunspell
sudo apt install -y python3-polib python3-lxml
```

[REDACTED] Node.js

```
cd ~
curl -fsSL https://deb.nodesource.com/setup_20.x -o nodesource_setup.sh
sudo -E bash nodesource_setup.sh
sudo apt install -y nodejs
```

[REDACTED] OxOffice Online v5 [REDACTED]

clone [REDACTED]

OxOffice Online v4 ?????



OxOffice Online Module SDK  OxOffice Online 

OxOOL v4

??????

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

oxool-module-maker

- `oxool-module-maker`
 - `--module-name=name` : `^[\\w\\@#]+`
 - `--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`
 - `--output-path=path` :
 - `~`

OxOOL ????????

OxOOL

OxOOL ??????????

oxool-module-maker oxool-dev

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

OxOOL ??? C++ ????????

oxool-module-maker src Module.cpp

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

OxOffice Online ??????

OxOOL [redacted] /etc/oxool/oxoolwsd.xml [redacted]

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

<sys_template_path>
systemtemplate[redacted]
[redacted] LibreOfficeKit [redacted] LibreOffice [redacted] chroot jails [redacted]
</sys_template_path>

<child_root_path>
child_root_path[redacted]
[redacted] chroot jails [redacted] systemtemplate [redacted]
</child_root_path>

<mount_jail_tree>
true
[redacted] systemtemplate [redacted] lotemplate[redacted]
</mount_jail_tree>

<server_name>
[redacted]
[redacted] oxoolwsd [redacted] 0x00L [redacted]
</server_name>

<client_port_number>
9980
0x00L [redacted]
</client_port_number>

<file_server_root_path>
loleaflet/./
[redacted] root [redacted] loleaflet [redacted]
</file_server_root_path>
```

```
<hexify_embedded_urls>
false
URL Azure
</hexify_embedded_urls>
```

```
<convert_to>
false
</convert_to>
```

```
<memproportion>
80.0
0xOffice
</memproportion>
```

```
<num_prespawn_children>
1
</num_prespawn_children>
```

```
<per_document>
0xOffice
```

```
<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
30 0
</autosave_duration_secs>

<always_save_on_exit>
false
false
</always_save_on_exit>

<limit_virt_mem_kb>
0
1700kb
</limit_virt_mem_kb>

<limit_stack_mem_kb>
8000
stack 0
</limit_stack_mem_kb>

<limit_file_size_mb>
0
</limit_file_size_mb>

<limit_num_open_files>
```

```
0
0 0
</limit_num_open_files>

<limit_load_secs>
100
0 0
</limit_load_secs>

<limit_convert_secs>
100
0 0
</limit_convert_secs>

<cleanup>
false
 LibreOfficeKit 0
<cleanup_interval_ms>
10000
</cleanup_interval_ms>
<bad_behavior_period_secs>
60
 LibreOfficeKit 0
</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 0
</limit_cpu_per>
</cleanup>

</per_document>
```



```
LibreOfficeKit LibreOfficeKit
</lokit_sal_log>
```

```
<file>
```

```
LibreOfficeKit
```

```
<property name="path">
```

```
/var/log/oxoolwsd.log
```

```
0xOffice Online
```

```
<property name="rotation">
```

```
daily
```

```
rotation Poco FileChannel
```

```
<property name="archive">
```

```
timestamp
```

```
(timestamp) (number)
```

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

```
local
```

```
rotation (local) UTC local utc
```

```
<property name="compress">
```

```
true
```

```
LibreOfficeKit
```

```
<property name="purgeAge">
```

```
30 days
```

```
LibreOfficeKit Poco FileChannel
```

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

```
100
```

```
LibreOfficeKit none Poco FileChannel
```

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

```
true
```

```
LibreOfficeKit rotation
```

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

```
false
```

```
LibreOfficeKit log flush LibreOfficeKit log
```

```
</file>
```

```
<anonymize>
```

```
<anonymize_user_data>
```

```
false
```

```
LibreOfficeKit false
```

```
</anonymize_user_data>
```

```
<anonymization_salt>
```

82589933

salt 64

</anonymization_salt>

</anonymize>

</logging>

<lleaflet_logging>

false

</lleaflet_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>
  0000000000
  <proto>
    000all
    00000000 IPv4 00 IPv6 0000000000
  </proto>

  <listen>
    000any
    00000000000000000000 any 0 loopback0
  </listen>

  <service_root>
    0000
    0000000000websocket 0000000000
  </service_root>

  <proxy_prefix>
    000false
    00000000000000000000 ProxyPrefix0
  </proxy_prefix>

  <post_allow>
    000true
    00000000000000 POST(REST) 0 IP 000
    <host>
      000
      192\.\.168\.\.[0-9]{1,3}\.\.[0-9]{1,3}
      ::ffff:192\.\.168\.\.[0-9]{1,3}\.\.[0-9]{1,3}
      127\.\.0\.\.0\.\.1
      ::ffff:127\.\.0\.\.0\.\.1
      ::1
      172\.\.17\.\.[0-9]{1,3}\.\.[0-9]{1,3}
      ::ffff:172\.\.17\.\.[0-9]{1,3}\.\.[0-9]{1,3}
    </host>
  </post_allow>
```


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></pin>

</pins>

</hpkp>

</ssl>

<security>

<seccomp>

true

seccomp filtering

</seccomp>

<capabilities>

true

chroot jails

</capabilities>

<jwt_expiry_sec>

1800

JWT

</jwt_expiry_sec>

<enable_macros_execution>

false

```
Basic Beanshell JavaScript Python false macro_security_level
true
</enable_macros_execution>

<macro_security_level>
1
0
</macro_security_level>

<enable_metrics_unauthenticated>
false
/oxool/getMetrics
</enable_metrics_unauthenticated>
</security>

<watermark>
<editing>
false
</editing>

<printing>
false
PDF
</printing>

<opacity>
0.2
0.0 1.0
</opacity>

<angle>
45
</angle>

<font>
</font>
```


<color>

□□#000000

□□□□□□□□□□

</color>

<bold>

□□false

□□□□□□□□□□□□

</bold>

<italic>

□□false

□□□□□□□□□□□□□□

</italic>

<outline>

□□false

□□□□□□□□□□□□□□

</outline>

<shadow>

□□false

□□□□□□□□□□□□□□

</shadow>

<text>

□□□□

□□□□□□□□□□□□□□□□

</text>

</watermark>

<welcome>

□□□□□□□□□□□□

<enable>

□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□

</enable>

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

www.ossii.com.tw wopi host www\ossii.com.tw

<max_file_size>

0

</max_file_size>

<reuse_cookies>

false

cookies WOPI

</reuse_cookies>

<locking>

<refresh>

90015 0

</refresh>

</locking>

</wopi>

<webdav>

false

webdav storage wopi

<host>

false: localhost

www.ossii.com.tw

webdav host www\ossii.com.tw

</host>

</webdav>

<ssl>

Office Online 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>
  0xOffice 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

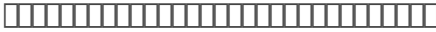
</password>

</admin_console>

<monitors>

</monitors>

??????????



0s



1min



?CPU ?????



CPU

??????????



??

過濾類別:

無

更新日誌

設定紀錄層級

```

wsd-27535-27551 2022-08-11 15:53:59.450098 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:58.039066 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.850088 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.843075 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.757605 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.755357 [ websrv_poll ] WRN FileServerRequestHandler: File not found: Invalid URI request: [/loleaflet/a6d4d2a/branding.js]| wsd/FileServer.cpp:511
wsd-27535-27551 2022-08-11 15:53:57.754138 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.753970 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.752034 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:57.728044 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.691518 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.641038 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.629622 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.450158 [ websrv_poll ] WRN FileServerRequestHandler: File not found: Invalid URI request: [/loleaflet/a6d4d2a/branding.js]| wsd/FileServer.cpp:511
wsd-27535-27551 2022-08-11 15:53:47.449966 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.447120 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.446922 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.445457 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:53:47.431400 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:51:13.408408 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:51:13.286151 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:51:13.278224 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:51:13.155645 [ websrv_poll ] ERR FileServerRequestHandler::NotAuthenticated: No authentication information found| wsd/FileServer.cpp:500
wsd-27535-27551 2022-08-11 15:51:13.155526 [ websrv_poll ] WRN FileServerRequestHandler: File not found: Invalid URI request: [/loleaflet/a6d4d2a/branding.js]| wsd/FileServer.cpp:511
wsd-27535-27551 2022-08-11 15:51:13.155264 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295
wsd-27535-27551 2022-08-11 15:51:13.155103 [ websrv_poll ] WRN client - server version mismatch, disabling browser cache. Expected: a6d4d2a| wsd/FileServer.cpp:295

```



