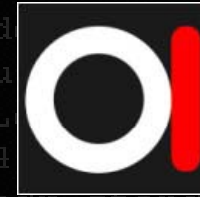




**HIDUP MENAWARKAN BEGITU BANYAK PILIHAN  
PILIH SERTA JALANI YANG TERBAIK, DAN JADILAH SEORANG PEMENANG...!**



Tak harus Windows server untuk Domain Controller

# BLANKON SAJA!

Lokakarya membangun Active Directory / Domain Controller  
menggunakan Linux BlankOn dan Samba4

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Konferensi BlankOn, Bogor 01 - 02 Desember 2012

# MENGAPA BLANKON ?



- BlankOn memiliki segala kebaikan sistem operasi GNU/Linux
- Distribusinya dapat diperoleh dengan mudah
- Ramah terhadap perangkat keras
- Bebas digunakan, dimodifikasi dan disebarluaskan
- Dikembangkan dari distro populer - Debian
- Dukungan komunitas yang besar dan mumpuni
- Tersedianya dokumentasi dan dukungan teknis
- Tersedianya jutaan aplikasi pada repositori mandiri BlankOn
- Dirilis secara gratis, dan mengemas aplikasi khas Indonesia
- Aman dari virus
- Mudah dalam penggunaan dan administrasinya
- Asli racikan Indonesia
- Dll

# MENGAPA SAMBA 4?

## FITUR

- Full Active Directory / Domain Controller
- File Sharing
- Printer Sharing
- Integrasi dengan DNS
- Integrasi dengan LDAP

## ADMINISTRASI

- Mudah dikonfigurasi
- Handal & mumpuni
- Free of charge

# BLANKON - SAMBA 4

**APAKAH BISA MENGGANTIKAN 100 PERSEN WINDOWS ACTIVE DIRECTORY ?**

Fungsi yang popular pada Microsoft Active Directory yaitu Organization Unit (OU) dan Group Policy (GPO), fitur tersebut dapat berfungsi baik pada SAMBA4,

Protokol Samba memungkinkan server Linux/UNIX untuk berkomunikasi dengan mesin client yang menggunakan OS Windows dalam satu jaringan, sehingga sistem ini dapat terintegrasi dengan system operasi Linux, Windows XP Profesional, Windows Vista, Windows 7, dan juga Macintosh.

**TERBUKTI**

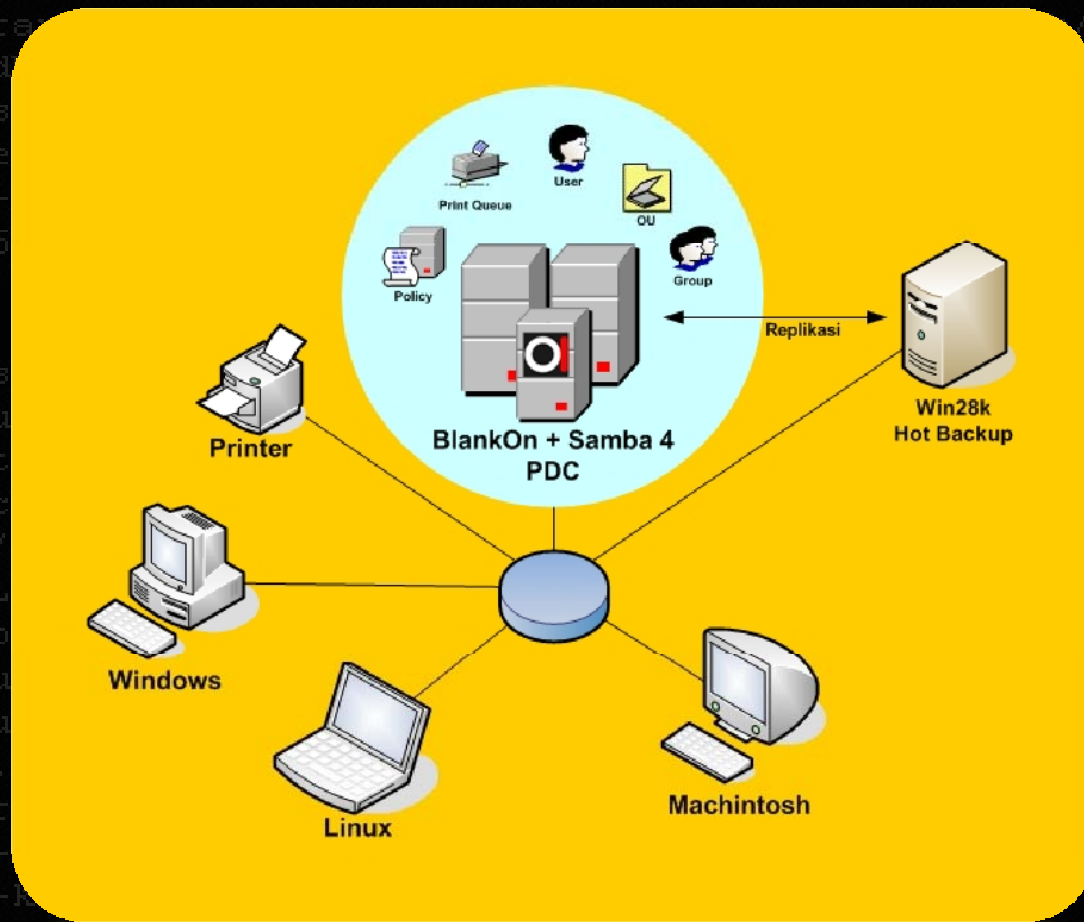
# CAKUPAN LOKAKARYA

## TASK LIST:

- Instalasi Linux BlankOn
- Instalasi dan Konfigurasi SAMBA4
- Instalasi dan Konfigurasi DNS BIND
- Instalasi dan Konfigurasi kerberos
- Join Domain
- Manajemen users & computers
- Implementasi GPO & Roaming Profile
- Membuat HotBackup



Samba As Primary Domain Controller





# BERKAS CONTEKAN

```
-Ldefault/lib/ldb-samba -Ldefault/source4/auth/kerberos -Ldefault/lib/krb5_wrap
e4/lib/socket -Ldefault/libcli/cldap -Ldefault/lib/tevent -Ldefault/auth/gensec
ault/auth/credentials -Ldefault/source4/libcli -Ldefault/source4/heimdal_build -
o/param -Ldefault/lib/tdb -Ldefault/librpc -Ldefault/lib -Ldefault/lib/socket_wr
efault/lib/nss_wrapper -Ldefault/source4/krb5 -Ldefault/lib/nss_wrapper -Ldefa
-lsamba-util -ltdb-wrap -luid_wrapper -lndr-samba4 -lnss_wrapper -ltalloc -ldcer
l_setid -ltdb -lsamba-hostconfig -lndr-krb5pac -lndr-standard -lndr-samba -lndr-
-util -# apt-get install build-essential libacl1-dev libattr1-dev libblkid-dev libgnutls-
dev libreadline-dev python-dev python-dnspython gdb pkg-config libpopt-dev
libldap2-dev dnstools libbsd-dev attr krb5-user
transport -lkrb5-samba4 -lasn1-samba4 -lncrypto-samba4 -lwind-samba4 -lflag_map
-samba4 -lresolv -lutil -lgnutls -lgcrypt -lm -ldl -lpython2.7 -lz -lrt -lnsl -l
0 15:14 pts/0    00:00:00 /usr/lib/gcc/i486-linux-gnu/4.7/collect2 --sysroot=/
d -o /usr/bin/ld --build-id --no-add-needed --
5/bin/default/source4/lib/messaging/libMESSAGING
cc/i486-linux-gnu/4.7/crtbeginS.o -Ldefault/auth -Ldefault/libcli/ldap -Ldefault
/dbwrap -# ./configure --enable-debug --enable-selftest
source4/auth/kerberos -Ldefault/lib/kr
c/source4/lib/socket -Ldefault/libcli/cldap -Ldefault/lib/tevent -Ldefault/auth/
n -Ldefault/auth/credentials -Ldefault/source4/libcli -Ldefault/source4/heimdal_
ault/lib/param -Ldefault/lib/tdb -Ldefault/librpc -Ldefault/lib -Ldefault/lib/so
loc -Ldefault/lib/nss_wrapper -Ldefault/lib/krb5-samba4 -luid_wrapper
lib/gcc/i486-linux-gnu/4.7/collect2 --sysroot=/
L/lib/./lib -L/usr/lib/i386-linux-gnu -L/usr/lib/./lib -L/usr/lib/gcc/i486-lin
il/unix -# /usr/local/samba/bin/smbclient -L localhost -U%
MING.vsn -# smbclient //localhost/netlogon -UAdministrator%p@ssw0rd' -c 'ls'
o -luid_wrapper -lndr-samba4 -lnss_wrapper -ltalloc -ldcerpc -lreplace -lcluster
hostconfig -lndr-krb5pac -lndr-standard -lndr-samba -lndr-nbt -lsamba-security -
als -lcli_auth -lerrors -ldcerpc-binding -levents -lgensec -ltevent -lcli_cldap -
4 -lldb -lsamba-common -lcom_err-samba4 -lkrb5samba -lauthkrb5 -lldbsamba -ldbwr
a4 -lasn1-samba4 -lncrypto-samba4 -lwind-samba4 -lflag_mapping -lcli-ldap-common
l -lgnutls -lgcrypt -lm -ldl -lpython2.7 -lz -lrt -lnsl -lattr -lbsd -lcrypt -lg
eded /usr/lib/gcc/i486-linux-gnu/4.7/crtendS.o /usr/lib/gcc/i486-linux-gnu/4.7/.
26 15:14 pts/0    00:00:00 /usr/bin/ld --sysroot=/ --build-id --no-add-needed --
.0rc5/bin/default/source4/lib/messaging/libMESSAGING.so /usr/lib/gcc/i486-lin
nS.o -Ldefault/auth -Ldefault/libcli/ldap -Ldefault/lib/bsd/common -Ldefault/lib/s
```



# BERKAS CONTEKAN

```
-Ldefault/lib/ldb-samba -Ldefault/source4/auth/kerberos -Ldefault/lib/krb5_wrap
e4/lib/socket -Ldefault/libcli/cldap -Ldefault/lib/tevent -Ldefault/auth/gensec
ault/auth/credentials -Ldefault/source4/libcli -Ldefault/source4/heimdal_build -
o/param -Ldefault/lib/tdb -Ldefault/librpc -Ldefault/lib/ldb -Ldefault/lib/socket_wr
efault/lib/nss_wrapper -Ldefault/source4/ldb -Ldefault/lib/ldb -Ldefault/lib/nss_wrapper -Ldefa
-lsamba-util -ltdb-wrap -luid_wrapper -lndr-samba4 -lnss_wrapper -ltalloc -ldcer
l_setid -ltdb -lsamba-hostconfig -lndr-krb5pac -lndr-standard -lndr-samba -lndr-
-util -lsamba-common -lcli_auth -lerrors -ldcerpc-binding -levents -lgensec
nutil -lsamba-common -lcom_err-samba4 -lkrb5samba -lauth
transport -lkrb5-samba4 -lasn1-samba4 -lhcrypto-samba4 -lwind-samba4 -lflag_map
-samba4 -lgnutls -lgcrypt -lm -ldl -lpython2.7 -lz -lrt -lnsl -l
0 15:14 pts/0    00:00:00 /usr/lib/gcc/i486-linux-gnu/4.7/collect2 --sysroot=/
d -o /usr/bin/samba-4.0.0rc5/bin/default/source4/lib/messaging/libMESSAGING
cc/i486-linux-gnu/4.7/collect2 --sysroot=/ --build-id --no-add-needed --
/dbwrap -Ldefault/lib/ldb-samba -Ldefault/source4/auth/kerberos -Ldefault/lib/kr
t/source4/lib/socket -Ldefault/libcli/cldap -Ldefault/lib/tevent -Ldefault/auth/
n -Ldefault/auth/credentials -Ldefault/source4/libcli -Ldefault/source4/heimdal_
ault/lib/param -Ldefault/lib/tdb -Ldefault/librpc -Ldefault/lib -Ldefault/lib/so
loc -Ldefault/lib/nss_wrapper -Ldefault/source4/librpc -Ldefault/lib/uid_wrapper
lib/gcc/i486-linux-gnu/4.7/collect2 --sysroot=/ --build-id --no-add-needed --
L/lib/./lib -L/usr/lib/i386-linux-gnu -L/usr/lib/./lib -L/usr/lib/gcc/i486-lin
il/unix -L/usr/lib/i386-linux-gnu -L/usr/lib/./lib -L/usr/lib/gcc/i486-lin
MING.vsc
default_realm = BLANKONF.BLANKON.IN
o -luid_wrapper -lndr-samba4 -lnss_wrapper -ltalloc -ldcerpc -lreplace -lcluster
hostconfig -lndr-krb5pac -lndr-standard -lndr-samba -lndr-nbt -lsamba-security -
als -lcli_auth -lerrors -ldcerpc-binding -levents -lgensec -ltevent -lcli_cldap -
4 -lldb -lsamba-common -lcom_err-samba4 -lkrb5samba -lauthkrb5 -lldbsamba -ldbwr
a4 -lasn1-samba4 -lhcrypto-samba4 -lwind-samba4 -lflag_mapping -lcli-ldap-common
-lgnutls -lgcrypt -lm -ldl -lpython2.7 -lz -lrt -lnsl -lattr -lbsd -lcrypt -lg
eded /usr/lib/gcc/i486-linux-gnu/4.7/crtendS.o /usr/lib/gcc/i486-linux-gnu/4.7/.
26 15:14 pts/0    00:00:00 /usr/bin/ld --sysroot=/ --build-id --no-add-needed --
.0rc5/bin/default/source4/lib/messaging/libMESSAGING.so /usr/lib/gcc/i486-lin
nS.o -Ldefault/auth -Ldefault/libcli/ldap -Ldefault/lib/ldb/common -Ldefault/lib/s
```

# vi /etc/bind/named.conf  
include "/usr/local/samba/private/named.conf";  
# vi /etc/default/bind9  
OPTION="-4 -u bind"  
# named-checkconf  
# /etc/init.d/bind9 restart  
# host -t A samba.blankonf.blankon.in.  
# host -t SRV\_ldap\_tcp.blankonf.blankon.in.  
# host -t SRV\_kerberos\_udp.blankonf.blankon.in.  
# mv /etc/krb5.conf /etc/krb5.conf.orig  
# cp /usr/local/samba/share/setup/krb5.conf /etc/  
# vi /etc/krb5.conf  
default\_realm = BLANKONF.BLANKON.IN  
# vi /etc/bind/named.conf.options  
tkey-gssapi-keytab "/usr/local/samba/private/dns.keytab";  
# kinit administrator@BLANKONF.BLANKON.IN  
# klist

# BERKAS CONTEKAN

```
-Ldefault/lib/ldb-samba -Ldefault/source4/auth/kerberos -Ldefault/lib/krb5_wrap
e4/lib/socket -Ldefault/libcli/cldap -Ldefault/lib/tevent -Ldefault/auth/gensec
ault/auth/credentials -Ldefault/source4/libcli -Ldefault/source4/heimdal_build -
o/param -Ldefault/lib/tdb -Ldefault/librpc -Ldefault/lib/ldb -Ldefault/lib/socket_wr
efault/lib/nss_wrapper -Ldefault/source4/ldb -Ldefault/lib/ldb -Ldefault/lib/nss_wrapper -Ldefa
-lsamba-util -ltdb-wrap -luid_wrapper -lndr-samba4 -lnss_wrapper -ltalloc -ldcer
l_setid -ltdb -lsamba-hostconfig -lndr-krb5pac -lndr-standard -lndr-samba -lndr-
-util -lsamba-credentials -lauth -lerrors -ldcerpc-binding -levents -lgensec
nutil
# vi /usr/local/samba/etc/smb.conf
[global]
transport = smb
printcap name = /dev/null
load printers = no
printing = bsd
0 15:14 pts/0    00:00:00 /usr/lib/gcc/i486-linux-gnu/4.7/collect2 --sysroot=/
d -o /usr/local/src/samba-4.0.Orc5/bin/default/source4/lib/messaging/libMESSAGING
cc/i486-linux-gnu/4.7/crtbeginS.o -Ldefault/auth -Ldefault/libcli/ldap -Ldefault
/dbwrap -Ldefault/lib/ldb-samba -Ldefault/source4/auth/kerberos -Ldefault/lib/kr
t/source4/lib/socket -Ldefault/libcli/cldap -Ldefault/lib/tevent -Ldefault/auth/
n -Ldefau
# /usr/local/samba/bin/wbinfo --name-to-sid USERNAME
# /usr/local/samba/bin/wbinfo --sid-to-uid xxx
loc -Ldefault/lib/nss_wrapper -Ldefault/source4/librpc -Ldefault/lib/uid_wrapper
lib/gcc/i486-linux-gnu/4.7/.../.../i386-linux
# /usr/local/samba/sbin/samba_dnsupdate --verbose --all-names
# wget http://anonscm.debian.org/loggerhead/pkg-
samba/samba4/unstable/download/head:/1833%40fc4039ab-9d04-0410-8cac-
899223bdd6b0:trunk%252Fsamba4:debian%252Fsamba4.init/samba4.init -O
/etc/init.d/samba4
# sed -i 's|/usr/sbin|/usr/local/samba/sbin|g' /etc/init.d/samba4
# chmod 755 /etc/init.d/samba4
# update-rc.d samba4 defaults
26 15:14 pts/0    00:00:00 /usr/bin/ld --sysroot=/ --build-id --no-add-needed --
.Orc5/bin/default/source4/lib/messaging/libMESSAGING.so /usr/lib/gcc/i486-linux-
nS.o -Ldefault/auth -Ldefault/libcli/ldap -Ldefault/lib/ldb/common -Ldefault/lib/s
```

# BERKAS LAMPIRAN

Isi berkas /usr/local/samba/etc/smb.conf

```
# Global parameters
```

```
[global]
```

```
workgroup = BLANKONF
```

```
realm = blankonf.blankon.in
```

```
netbios name = SAMBA
```

```
server role = active directory domain controller
```

```
server services = s3fs, rpc, nbt, wrepl, ldap, cldap, kdc, drepl, winbind, ntp_signd, kcc,
```

```
dnsupdate
```

```
printcap name = /dev/null
```

```
load printers = no
```

```
printing = bsd
```

```
[netlogon]
```

```
path = /usr/local/samba/var/locks/sysvol/blankonf.blankon.in/scripts
```

```
read only = No
```

```
[sysvol]
```

```
path = /usr/local/samba/var/locks/sysvol
```

```
read only = No
```

```
[profiles]
```

```
path = /usr/local/samba/var/profiles
```

```
read only = no
```

```
[share]
```

```
path = /data
```

```
comment = Sharing Data
```

```
read only = no
```

```
browseable = yes
```

```
writeable = yes
```

```
guest ok = yes
```

```
vfs object = recycle
```

```
config file = /usr/local/samba/etc/recycle.conf
```

```
recycle:repository = Recycle Bin
```

```
recycle:keeptree = Yes
```

```
recycle:versions = Yes
```

# BERKAS LAMPIRAN

Isi berkas /usr/local/samba/etc/recycle.conf

```
name = Recycle Bin
mode = KEEP_DIRECTORIES|VERSIONS|TOUCH
maxsize = 0
exclude = *.tmp|*.temp|*.o|*.obj|~$*|*.*?|*.log|*.trace
excludedir = /tmp|/temp|/cache
noversions = *.doc|*.ppt|*.dat|*.ini|*.xls|*.pdf
```

Isi berkas /etc/krb5.conf

```
[libdefaults]
default_realm = BLANKONF.BLANKON.IN
dns_lookup_realm = false
dns_lookup_kdc = true
```

Isi berkas /etc/bind/named.conf

```
include "/etc/bind/named.conf.options";
include "/etc/bind/named.conf.local";
include "/etc/bind/named.conf.default-zones";
include "/usr/local/samba/private/named.conf";
```

Isi berkas /etc/network/interfaces

```
auto lo
iface lo inet loopback

iface eth0 inet static
address 192.168.1.4
netmasks 255.255.255.0
gateway 192.168.1.1
dns-nameservers 192.168.1.4
dns-search blankonf.blankon.in
```

# BAHAN REFERENSI

- <http://blankonlinux.or.id>
- <https://wiki.samba.org/index.php/Samba4/HOWTO>
- <https://www.isc.org/software/bind>
- <http://debian.org>
- [google.com](http://google.com)
- [wikipedia.com](http://wikipedia.com)

SILAKAN BERTANYA...

SILAKAN BERKOMENTAR

TERIMA KASIH

MATUR NUWUN

KAMSIAH & TARARENGKYU

HATUR NUHUN