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| Samba AD DC - Server's Settings  2014/04/26 |

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|  | Configute Samba Active Directory Domain Controller.  This example configures on the environment bellow.  Domain name  : SMB01  Realm  : SMB.SERVER.WORLD  Hostname  : smb.server.world |
| [1] | Install some packages |

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| root@smb:~#  [aptitude](http://www.server-world.info/en/command/html/aptitude.html) -y install samba krb5-config  # set Realm  +------------------+ Configuring Kerberos Authentication +------------------+  | When users attempt to use Kerberos and specify a principal or user name |  | without specifying what administrative Kerberos realm that principal |  | belongs to, the system appends the default realm. The default realm may |  | also be used as the realm of a Kerberos service running on the local |  | machine. Often, the default realm is the uppercase version of the local |  | DNS domain. |  | |  | Default Kerberos version 5 realm: |  | |  | SMB.SERVER.WORLD\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | |  | <Ok> |  | |  +---------------------------------------------------------------------------+  # specify the hostname  +------------------+ Configuring Kerberos Authentication +------------------+  | Enter the hostnames of Kerberos servers in the SMB.SERVER.WORLD Kerberos |  | realm separated by spaces. |  | |  | Kerberos servers for your realm: |  | |  | smb.server.world\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | |  | <Ok> |  | |  +---------------------------------------------------------------------------+    # specify the hostname  +------------------+ Configuring Kerberos Authentication +------------------+  | Enter the hostname of the administrative (password changing) server for |  | the SMB.SERVER.WORLD Kerberos realm. |  | |  | Administrative server for your Kerberos realm: |  | |  | smb.server.world\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  | |  | <Ok> |  | |  +---------------------------------------------------------------------------+ |

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| [2] | Configure Samba |

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| # rename or remove the default config file  root@smb:~#  [mv](http://www.server-world.info/en/command/html/mv.html) /etc/samba/smb.conf /etc/samba/smb.conf.org  root@smb:~#  sudo /usr/local/samba/bin/samba-tool domain provision --use-rfc2307 --interactive --use-ntvfs  # specify Realm  Realm:  SMB.SERVER.WORLD  # specify Domain name  Domain [SMB]:  SMB01  # Enter with default because it sets DC  Server Role (dc, member, standalone) [dc]:  # Enter with default because it uses Built-in DNS  DNS backend (SAMBA\_INTERNAL, BIND9\_FLATFILE, BIND9\_DLZ, NONE) [SAMBA\_INTERNAL]:  # confirm DNS setting and Enter if it's OK  DNS forwarder IP address (write 'none' to disable forwarding) [10.0.0.10]:  # set admin password  # Do not set trivial password, if you input it, configuration wizard shows error and stops.  Administrator password:  Retype password:  Looking up IPv4 addresses  Looking up IPv6 addresses  No IPv6 address will be assigned  Setting up share.ldb  Setting up secrets.ldb  Setting up the registry  Setting up the privileges database  Setting up idmap db  Setting up SAM db  Setting up sam.ldb partitions and settings  Setting up sam.ldb rootDSE  Pre-loading the Samba 4 and AD schema  Adding DomainDN: DC=smb,DC=server,DC=world  Adding configuration container  Setting up sam.ldb schema  Setting up sam.ldb configuration data  Setting up display specifiers  Modifying display specifiers  Adding users container  Modifying users container  Adding computers container  Modifying computers container  Setting up sam.ldb data  Setting up well known security principals  Setting up sam.ldb users and groups  Setting up self join  Adding DNS accounts  Creating CN=MicrosoftDNS,CN=System,DC=smb,DC=server,DC=world  Creating DomainDnsZones and ForestDnsZones partitions  Populating DomainDnsZones and ForestDnsZones partitions  Setting up sam.ldb rootDSE marking as synchronized  Fixing provision GUIDs  A Kerberos configuration suitable for Samba 4 has been generated at /var/lib/samba/private/krb5.conf  Once the above files are installed, your Samba4 server will be ready to use  Server Role: active directory domain controller  Hostname: smb  NetBIOS Domain: SMB01  DNS Domain: smb.server.world  DOMAIN SID: S-1-5-21-2788139304-4264175402-297299711  # restart the computer  root@smb:~#  [reboot](http://www.server-world.info/en/command/html/reboot.html)  # raise domain level to 2008 R2  root@smb:~#  samba-tool domain level raise --domain-level 2008\_R2 --forest-level 2008\_R2  Domain function level changed! Forest function level changed! All changes applied successfully!  # confirm doman level  root@smb:~#  samba-tool domain level show  Domain and forest function level for domain 'DC=smb,DC=server,DC=world'  Forest function level: (Windows) 2008 R2  Domain function level: (Windows) 2008 R2  Lowest function level of a DC: (Windows) 2008 R2  # add a user in domain  root@smb:~#  samba-tool user add trusty  New Password:  # set password  Retype Password: User 'trusty' created successfully |

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| [2] | It's OK to configure Samba AD DC. [Refer to the next tutorial to configure Clients](http://www.server-world.info/en/note?os=Ubuntu_14.04&p=samba&f=5). |

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|  | Join in Samba AD DC from Clients. This example shows to configure Windows Server 2012 R2. |
| [1] | Change DNS settings to refer to Samba AD DC. |

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| http://www.server-world.info/en/Ubuntu_14.04/samba/img/7.jpg |

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| [2] | Open system's property and specify Samba AD DC hostname in Join Group. |

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| http://www.server-world.info/en/Ubuntu_14.04/samba/img/8.jpg |

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| [3] | Authenticate with Administrator user. The password is just the one you set in Samba AD DC configuration. |

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| http://www.server-world.info/en/Ubuntu_14.04/samba/img/9.jpg |

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| [4] | After authentication, it can join AD Doman. Next, Restart computer once. |

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| http://www.server-world.info/en/Ubuntu_14.04/samba/img/10.jpg |

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| [5] | It's possible to logon with the Administrator or users added in Samba AD DC. |

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| http://www.server-world.info/en/Ubuntu_14.04/samba/img/11.jpg |

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| [6] | Just logon to Samba Active Directory. |

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| http://www.server-world.info/en/Ubuntu_14.04/samba/img/12.jpg |