



Proyek Uji Lomba Kompetensi Siswa Nasional 2026

SMA/MA/SMK/MAK/Sederajat



Cabang Ajang

**Teknologi Informasi Sistem Administrasi Jaringan
(IT Network System Administration)**

ACTUAL TEST PROJECT
MODUL A – TROUBLESHOOTING
SYSTEM INTEGRATION

IT NETWORK SYSTEMS ADMINISTRATION

LOMBA KOMPETENSI SISWA DIKMEN
TINGKAT NASIONAL 2026

Information

Addressing & Service Table

FQDN	Hostname	Interface	IP Address	Roles
rtr01.office.local	rtr01	ens160 (WAN)	100.0.0.1/24	Routing, NAT, Firewall
		ens192 (LAN)	172.16.1.1/24	
		tun0 (VPN P2P)	10.10.10.1/32	
rtr02.office.local	rtr02	ens160 (WAN)	100.0.0.2/24	Routing, NAT, VPN
		ens192 (LAN)	192.168.10.1/24	
		tun0 (VPN P2P)	10.10.10.2/32	
lnx01.office.local	lnx01	ens160	172.16.1.10/24	DNS, DHCP, NTP
lnx02.office.local	lnx02	ens160	172.16.1.20/24	Web, PHP, MariaDB
lnx03.office.local	lnx03	ens160	172.16.1.30/24	Mail, Samba (AD Member)
dc01.office.local	dc01	Ethernet0	172.16.1.1/24	AD DS, DNS (Primary), GPO
partner01.public.net	partner01	ens160	100.0.0.3/24	Web, DNS
winclt.office.local	winclt	Ethernet0	DHCP	Client (AD Member)
linclt.office.local	linclt	ens160	DHCP	Client (AD Member)

Credentials

Linux

Username: root/sysadmin
Password: Skill39@2026

Windows

Username: Administrator
Password: Skill39@2026

Ticket 1

We have received a report that our Windows client cannot ping partner01 on the internet. I remember someone touching the DHCP configuration on the Inx01 server. Can you investigate it further?

What are the causes of the problem?

Solutions to fix this:

Ticket 2

Hello, this is Fajar. I am having trouble logging into my account on Windows workstation, yesterday I tried to login on Linux and it works. Please help me with this issue, as I need to get in to retrieve my work!

What are the causes of the problem?

Solutions to fix this:

Ticket 3

Our business partner at partner01 said they cannot access our public website www.office.net. They also tried to resolve the domain using DNS but got no response. We checked and confirmed that Inx01 DNS is running fine internally. We need to fix it ASAP.

What are the causes of the problem?

Solutions to fix this:

Ticket 4

Dian says she cannot access the HR department's shared folder using Inxclt. Since her colleagues can successfully access it from the same machine, it seems likely that Dian's account is experiencing shared folder permission issues.

What are the causes of the problem?

Solutions to fix this:

Ticket 5

Hey, I think we are facing some weird issue with `www.office.local`! It keeps downloading a strange file whenever we try to access it. Any idea about this? What is going on? Are we being attacked by hacker?

What are the causes of the problem?

Solutions to fix this:

Ticket 6

This is Andi Pratama. Recently I've been trying to remotely manage the `lnx03` server. But when I tried to access it, it seems the SSH service is not running. Can you please fix it for me? Also after that please make sure my credential which is `it01` can be used to access the server.

What are the causes of the problem?

Solutions to fix this:

Ticket 7

Hey it's me, Citra. I want to send an email to Dian using thunderbird on `linclt` but it's failed. You know I'm not an IT person, could you please help to solve this problem?

What are the causes of the problem?

Solutions to fix this:

Ticket 8

Please, can you check the `partner01` condition? I want to try to access `public.net` from the internal network but it seems the website is broken.

What are the causes of the problem?

Solutions to fix this: