

**DOKUMENTASI PROJEK MIKROTIK + AWS  
KONSENTRASI KEAHLIAN TKJ 2024**

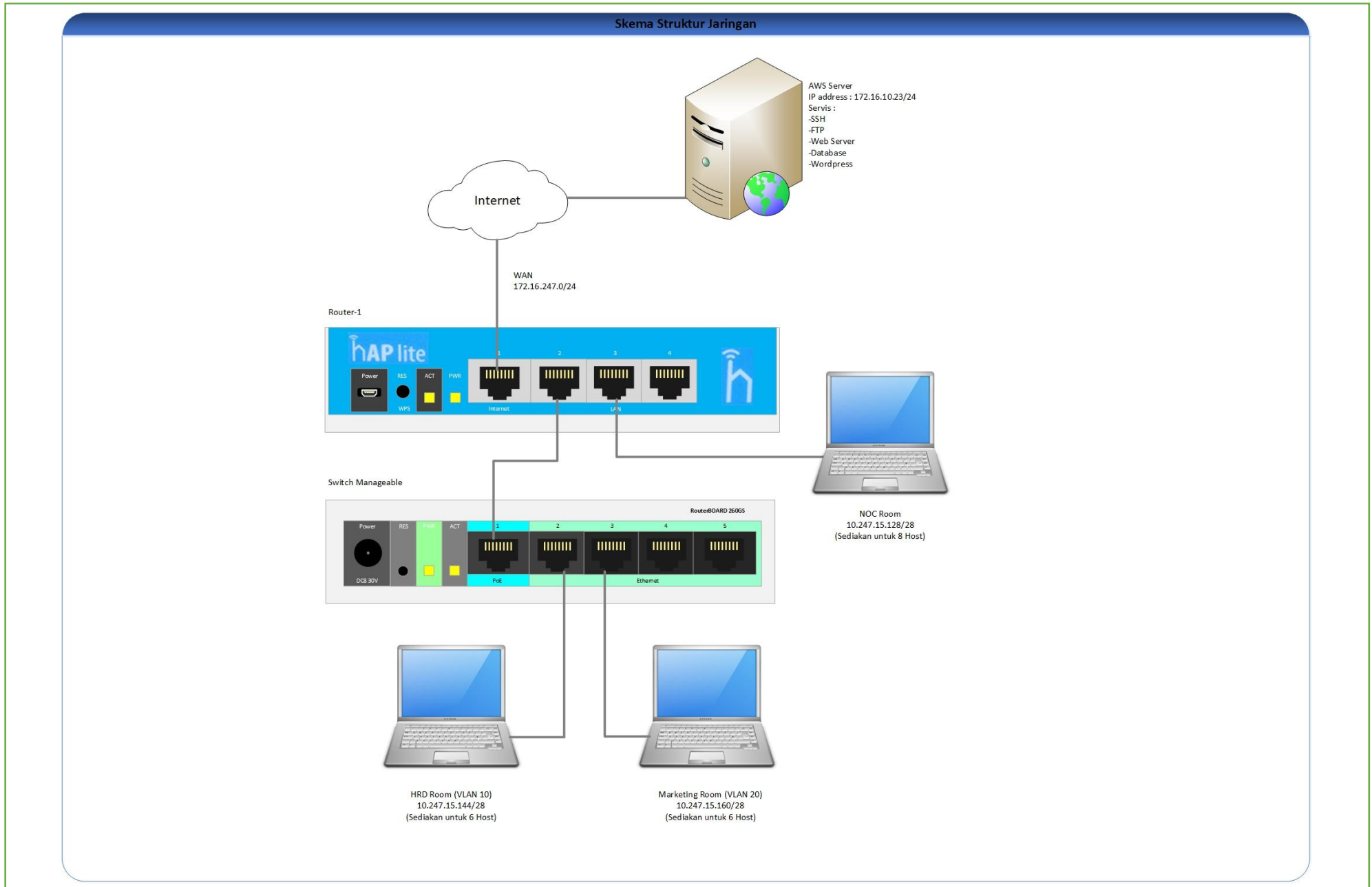
**NIS : 12209161**  
**NAMA : Muhamad Dzakwan Ar Efendi**  
**ROMBEL : TJKT XII-3**  
**RAYON : Cicurug 1**

## I. Membuat Daftar Perangkat Jaringan dan Rancangan

No	Nama Perangkat	Spesifikasi	Jumlah	Harga	Total	Keterangan
1	Switch Manageable CRS112-8G-4S-IN	QCA8511 RAM 128 MB 400 MHz	1 Pc	Rp 2.566.000	Rp 2.566.000	memiliki interface lebih banyak sehingga akan lebih flexible saat diimplementasikan pada jaringan.
2	Router RB1100AHx4	ARM 32bit AL21400, 4, 1.4 GHz RAM 128MB/1GB 10/100/1000Mbps 13 Port	1 Pc	Rp 4.250.000	Rp 4.250.000	menggunakan spesifikasi hardware yang lebih baru yaitu processor Alpine AL21400 1.4GHz Quad Core , 1GB RAM , routerOS level 6, dan casing 1U rackmount.
3	UTP	Cat 6 305 Meter	1 Roll	Rp 900.000	Rp 900.000	Kabel CAT6 dapat mengirimkan 1000 Mbps Ethernet pada jarak 100 meter.
4	Switch Unmanageable D-Link DGS-1024C	24-Port Gigabit Ethernet 10/100/1000Mbps Unmanaged	1 Pc	Rp 843.000	Rp 843.000	Digunakan pada Production Room untuk 20 perangkat.
5	Switch Unmanageable D-Link DGS-1016A	16-Port Fast ethernet 10/100/1000Mbps Unmanaged	2 Pcs	Rp 699.000	Rp 1.368.000	Digunakan pada Ruang Markting dan HRD - Pada Marketing room digunakan 11 Port Pada HRD room digunakan 9 port
6	Access point  Unifi Ubiquiti U6-Lite	2.4 GHz=300 Mbps 5 GHz=1201 Mbps 802.11a/b/g/n/ac/ax  WPA-PSK, WPA-Enterprise (WPA/WPA2/WPA3)	4 Pcs	Rp 1.760.000	Rp 7.040.000	Dipasang untuk konektivitas stabil

7	UPS ICA RN2000 RN 2000	2000VA 1000WATT RACKMOUNT SINEWAVE AC Voltage : 160 – 250 V AC Frequency : 50 ± 3 Hz AC Protection : 10 A DC Voltage : 36 V DC INT Battery : 3 x 12 V, 7 Ah  DC Protection : FUSE	1 Pc	Rp 5.590.000	Rp 5.590.000	UPS berguna ketika ada pemadaman listrik tiba tiba dan server masi belum dimatikan secara benar. Operator bisa melakukan <i>shutting down</i> beberapa menit yang diberikan oleh UPS supaya server, router, switch bisa lebih awet
8	INDORACK PDU 8 SOCKET	Socket Port : 8 ports Rating Voltase : 250V 50/60HZ Rating Curent : 16A Max Power : 4000 Watt  Material : Aluminium	1 Pc	Rp 532.500	Rp 532.500	Diperlukan agar server bisa dicolok secara rapi tanpa khawatir kehabisan slot colokan.

## II. Membuat Desain Jaringan



### III. Merancang Pengalamatan Jaringan

Divisi	Network	Prefix/CIDR	Range	Broadcast
Network Router	172.16.247.0	255.255.255.0/24	172.16.247.1-172.16.247.254	172.16.247.255
Marketing Room	10.247.15.160	255.255.255.240/28	10.247.15.161-10.247.15.174	10.247.15.175
Public WiFi Area	10.247.15.0	255.255.255.128/25	10.247.15.1-10.247.15.126	10.247.15.127
HRD Room	10.247.15.144	255.255.255.240/28	10.247.15.145-10.247.15.158	10.247.15.159
NOC Room	10.247.15.128	255.255.255.240/28	10.247.15.129-10.247.15.142	10.247.15.143

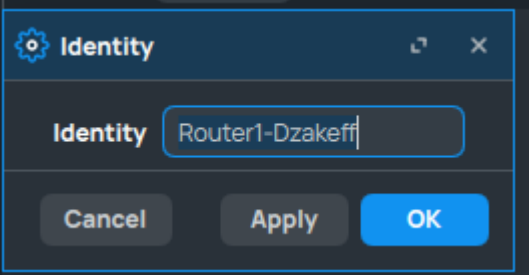
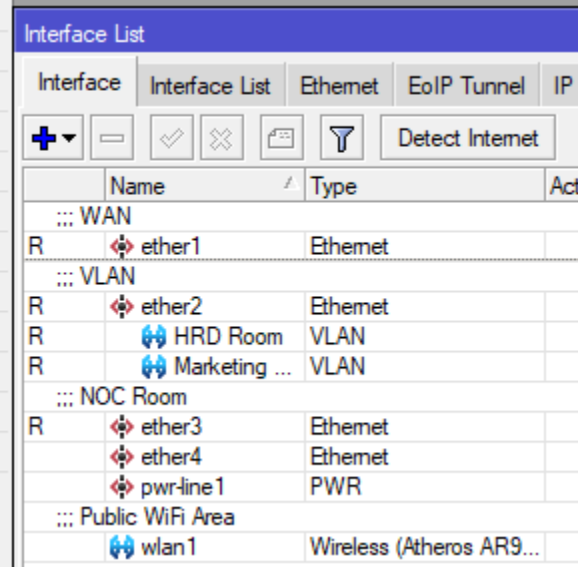
### IV. Menentukan Pengalamatan Jaringan

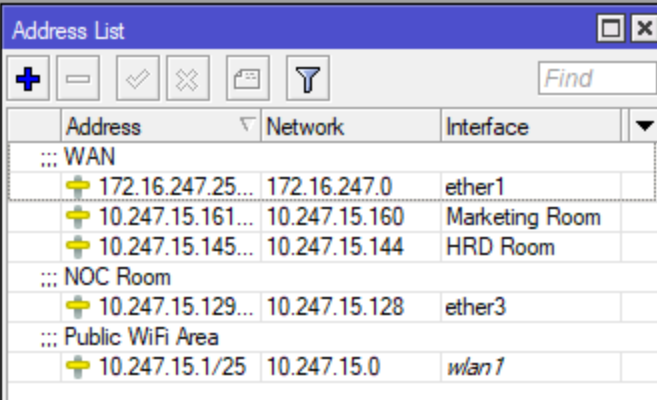
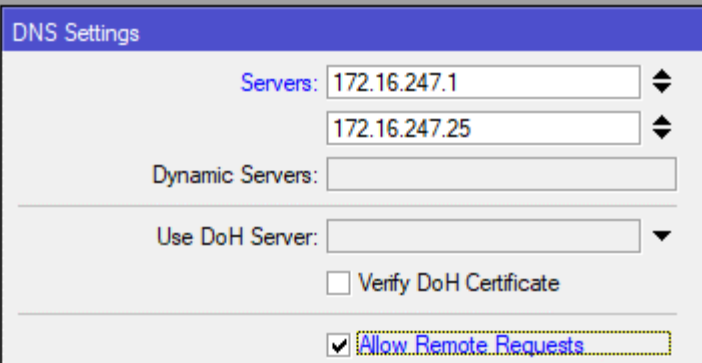
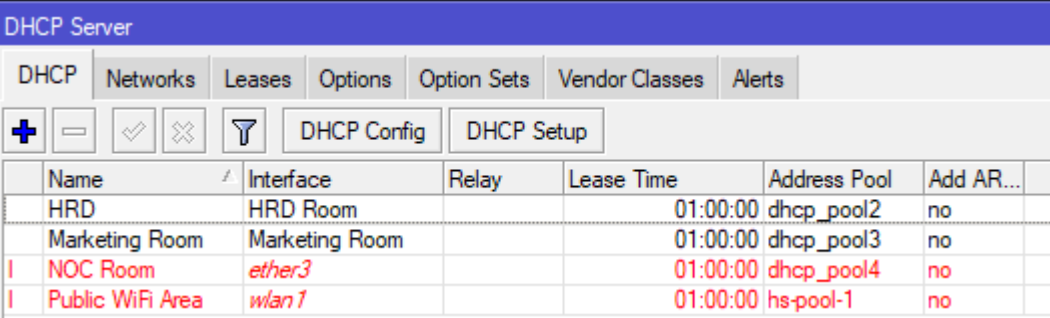
Device	Interface	Mac Address	IP Address	Subnet Mask	Gateway
Router 1	Ether1 WAN	48:8F:5A:13:79:AE	172.16.247.25	255.255.255.0	172.16.247.1
	Ether2 HRD Room	48:8F:5A:13:79:AF	10.247.15.145	255.255.255.240	10.247.15.145
	Ether2 Marketing Room	48:8F:5A:13:79:AF	10.247.15.161	255.255.255.240	10.247.15.161
	Ether3 NOC Room	48:8F:5A:13:79:B0	10.247.15.129	255.255.255.240	10.247.15.129
	Wlan1 Public WiFi Area	48:8F:5A:13:79:B3	10.247.15.1	255.255.255.128	10.247.15.1
Client Public WiFi Area	Wireless	00:BB:60:0C:A0:85	10.247.15.111	255.255.255.	10.247.15.1
Client Marketing Room	LAN	E4:B9:7A:39:58:66	10.247.15.174	255.255.255.	10.247.15.161
Client HRD Room	LAN	E4:B9:7A:39:58:66	10.247.15.158	255.255.255.	10.247.15.145
Client NOC Room	LAN	E4:B9:7A:39:58:66	10.247.15.158	255.255.255.	10.247.15.129

## VI. Implementasi

### A. HASIL KONFIGURASI

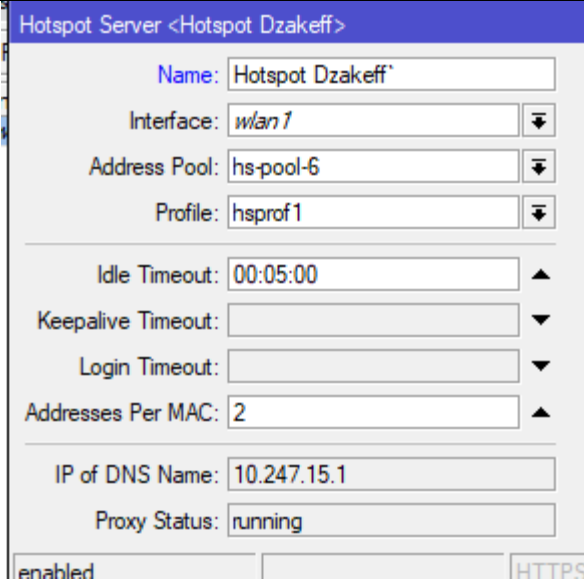
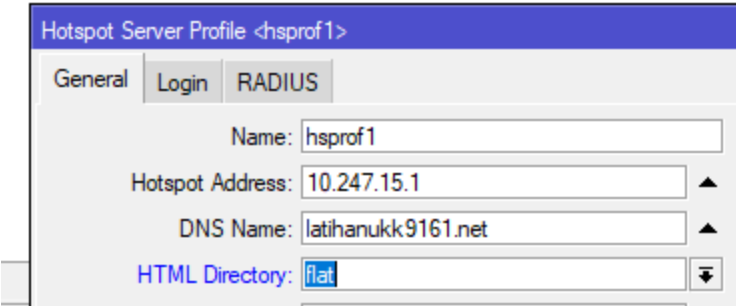
- Router

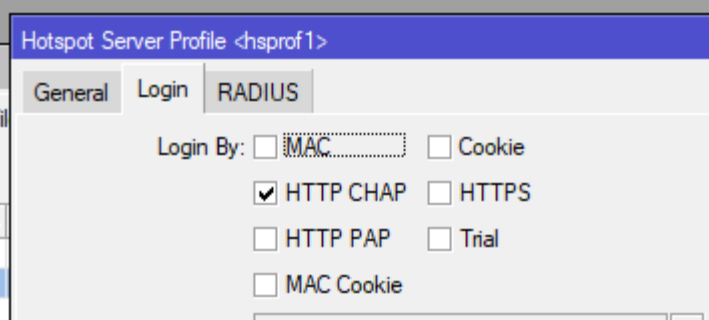
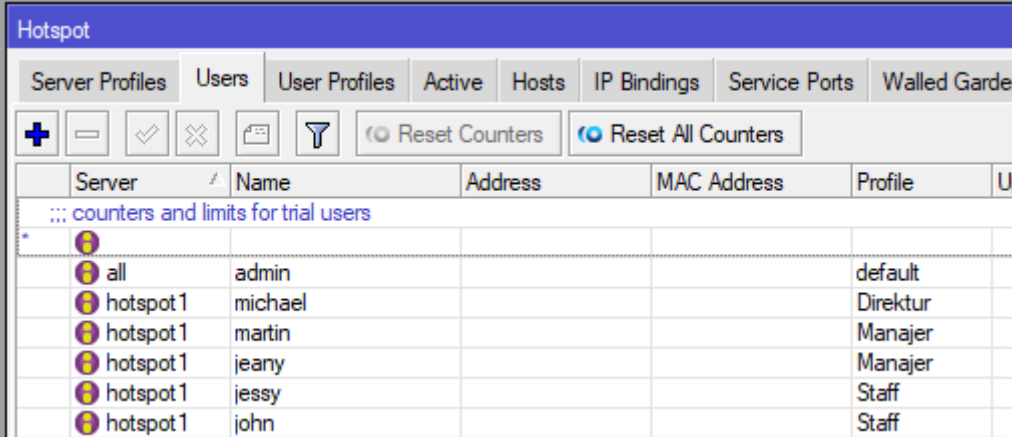
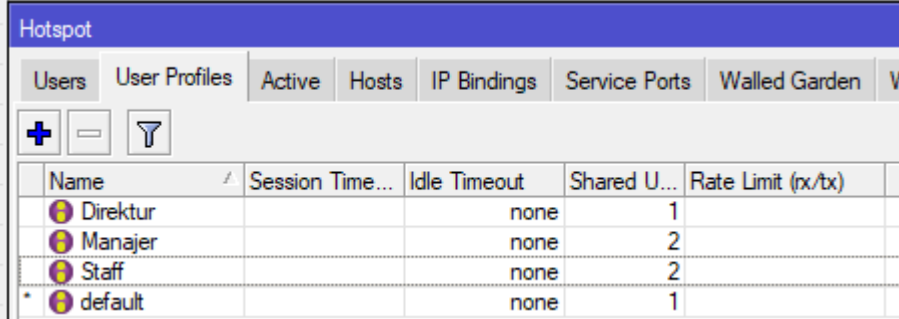
No	Konfigurasi	Hasil/Dokumentasi	Keterangan
1.	Identity		Mengubah identitas router bertujuan agar dapat mudah dikenali jenis, fungsi router tersebut.
2.	Interface		Disini diberi comment agar tidak tertukar dengan port yang lain.

No	Konfigurasi	Hasil/Dokumentasi	Keterangan
3	IP Address		Disini merupakan IP address yang telah sesuai dengan VLSM. Ether1 menggunakan IP static.
4	DNS		Ketika menggunakan IP static, perlu memasukan DNS server secara manual dan mencentang Allow Remote Requests agar DHCP server mendapat DNS nya.
5	DHCP Server		Berikut merupakan asil konfigurasi DHCP Server sesuai kebutuhan client.

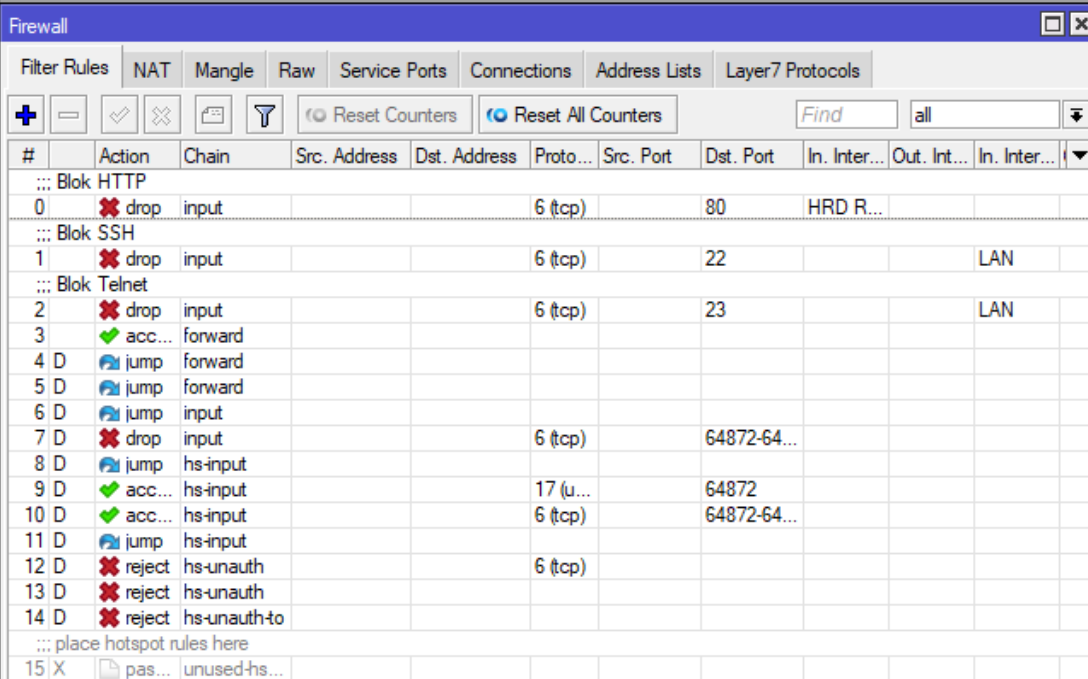
No	Konfigurasi	Hasil/Dokumentasi	Keterangan
6	Wlan 1 (Mode, Band, SSID)	<p>Interface &lt;wlan1&gt;</p> <p>General Wireless HT HT MCS WDS Nstreme NV2 Status ...</p> <p>Mode: ap bridge</p> <p>Band: 2GHz-B/G/N</p> <p>Channel Width: 20MHz</p> <p>Frequency: 2437 MHz</p> <p>SSID: 12209161-Dzakeff</p> <p>Security Profile: default</p> <p>WPS Mode: disabled</p> <p>Frequency Mode: regulatory-domain</p> <p>Country: etsi</p> <p>Installation: any</p> <p>Default AP Tx Limit: ▼ bps</p> <p>Default Client Tx Limit: ▼ bps</p> <p><input checked="" type="checkbox"/> Default Authenticate</p> <p><input checked="" type="checkbox"/> Default Forward</p> <p><input type="checkbox"/> Hide SSID</p>	Mode AP sudah sesuai dengan permintaan client.

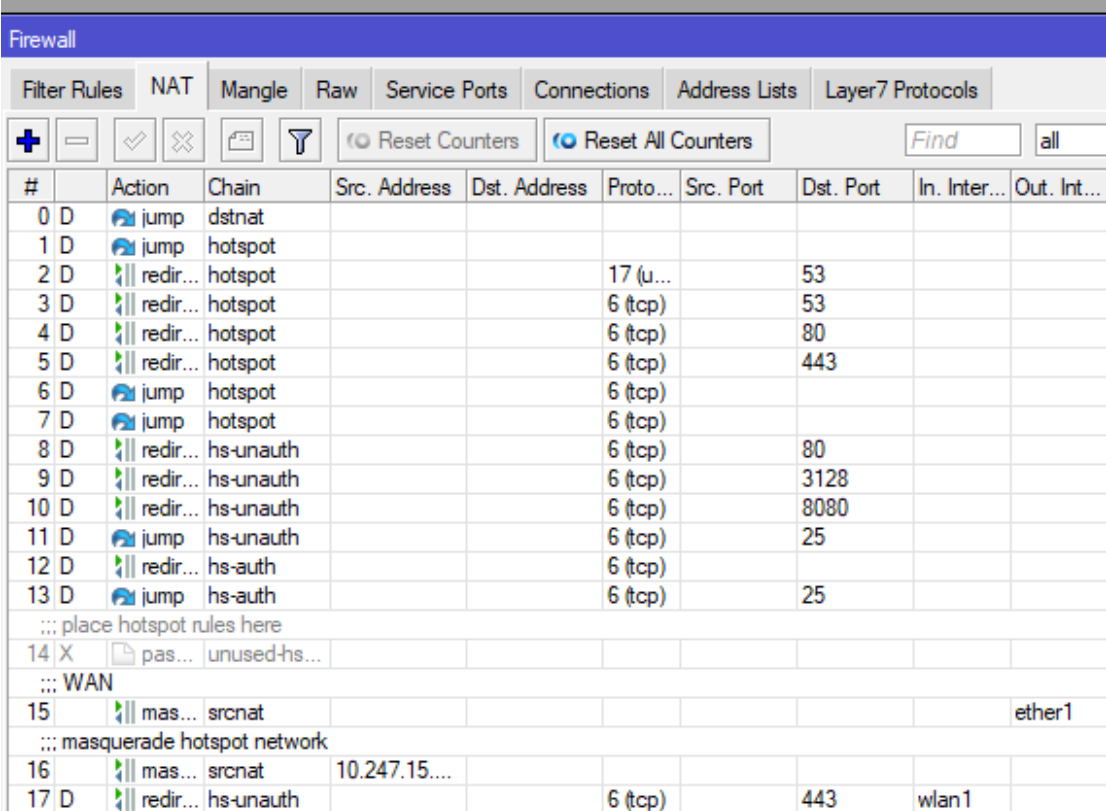
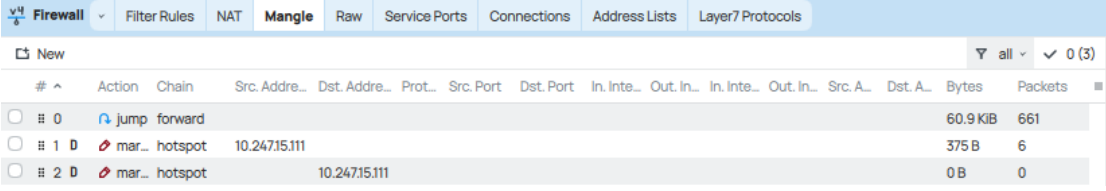


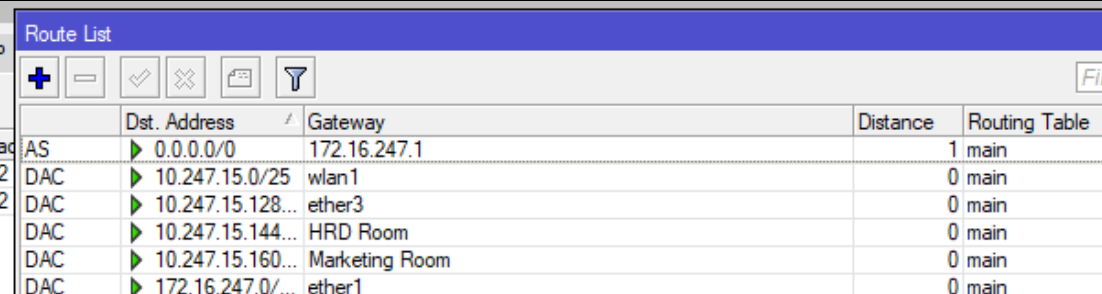
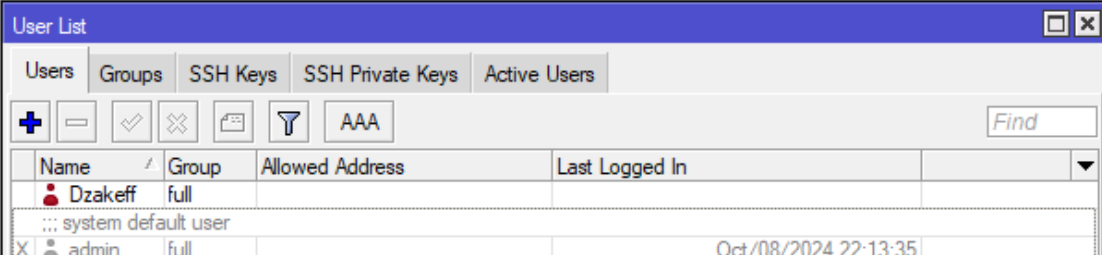
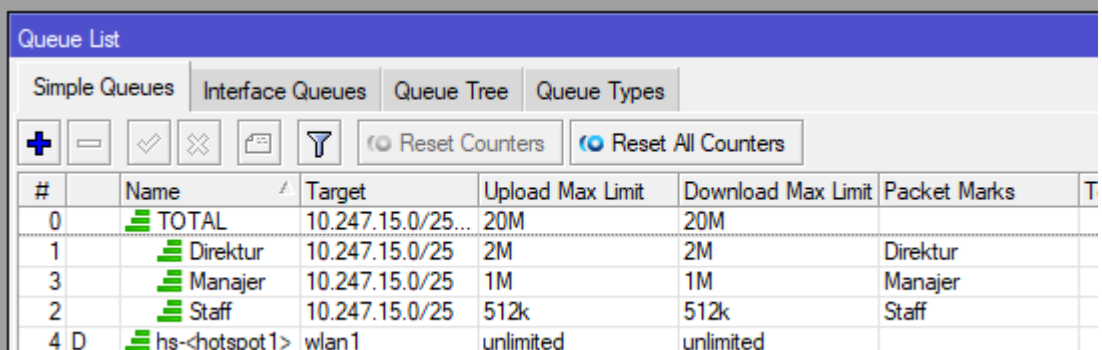
No	Konfigurasi	Hasil/Dokumentasi	Keterangan
7	Server Hotspot		Disini merupakan server hotspot yang telah dibuat.
8	Server Profile Hotspot		Disini merupapak server profiles untuk server hotspot. Menggunakan IP address ether 3 dan menggunakan DNS, serta saya menggunakan webpage HTML yang berbeda. Jika tidak ingin menyimpan informasi, silahkan matikan cookie.

No	Konfigurasi	Hasil/Dokumentasi	Keterangan																																																						
																																																									
9	User Hotspot	 <table><thead><tr><th>Server</th><th>Name</th><th>Address</th><th>MAC Address</th><th>Profile</th><th>U</th></tr></thead><tbody><tr><td colspan="6">::: counters and limits for trial users</td></tr><tr><td>*</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>all</td><td>admin</td><td></td><td></td><td>default</td><td></td></tr><tr><td>hotspot 1</td><td>michael</td><td></td><td></td><td>Direktur</td><td></td></tr><tr><td>hotspot 1</td><td>martin</td><td></td><td></td><td>Manajer</td><td></td></tr><tr><td>hotspot 1</td><td>jeany</td><td></td><td></td><td>Manajer</td><td></td></tr><tr><td>hotspot 1</td><td>jessy</td><td></td><td></td><td>Staff</td><td></td></tr><tr><td>hotspot 1</td><td>john</td><td></td><td></td><td>Staff</td><td></td></tr></tbody></table>	Server	Name	Address	MAC Address	Profile	U	::: counters and limits for trial users						*						all	admin			default		hotspot 1	michael			Direktur		hotspot 1	martin			Manajer		hotspot 1	jeany			Manajer		hotspot 1	jessy			Staff		hotspot 1	john			Staff		Disini merupakan akun untuk hotspot dengan user profile yang telah ditentukan
Server	Name	Address	MAC Address	Profile	U																																																				
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10	User Profile Hotspot	 <table><thead><tr><th>Name</th><th>Session Time...</th><th>Idle Timeout</th><th>Shared U...</th><th>Rate Limit (rx/tx)</th></tr></thead><tbody><tr><td>Direktur</td><td></td><td>none</td><td>1</td><td></td></tr><tr><td>Manajer</td><td></td><td>none</td><td>2</td><td></td></tr><tr><td>Staff</td><td></td><td>none</td><td>2</td><td></td></tr><tr><td>* default</td><td></td><td>none</td><td>1</td><td></td></tr></tbody></table>	Name	Session Time...	Idle Timeout	Shared U...	Rate Limit (rx/tx)	Direktur		none	1		Manajer		none	2		Staff		none	2		* default		none	1		<p>Disini merupakan pusat informasi dari suatu user. Terdiri dari keepalive, shared user, rate limit, DLL. Disini saya menggunakan rate limit terpisah, yaitu menggunakan simple queue berbasis PCQ.</p> <p>PCQ (Per-Connection Queue) adalah queue types yang membagi paket dengan rata</p>																													
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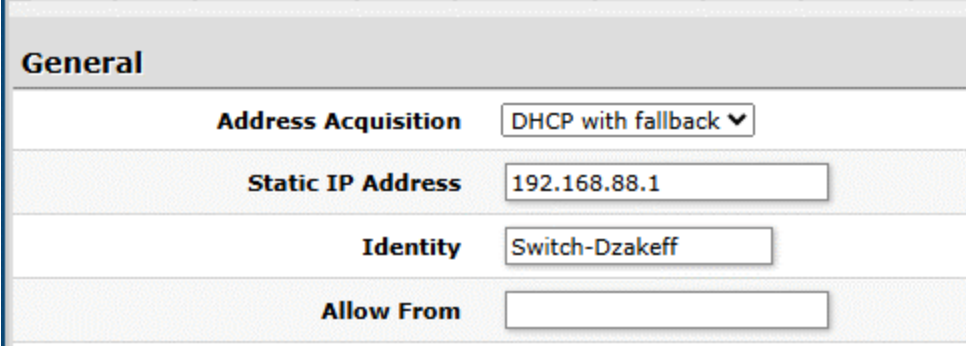
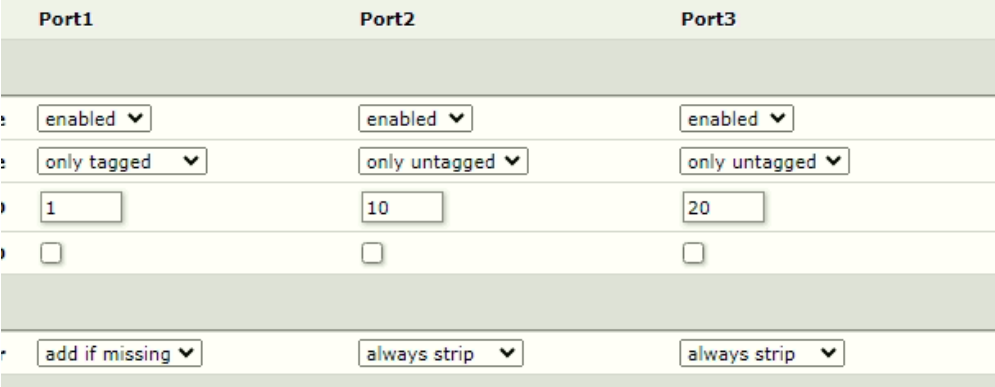
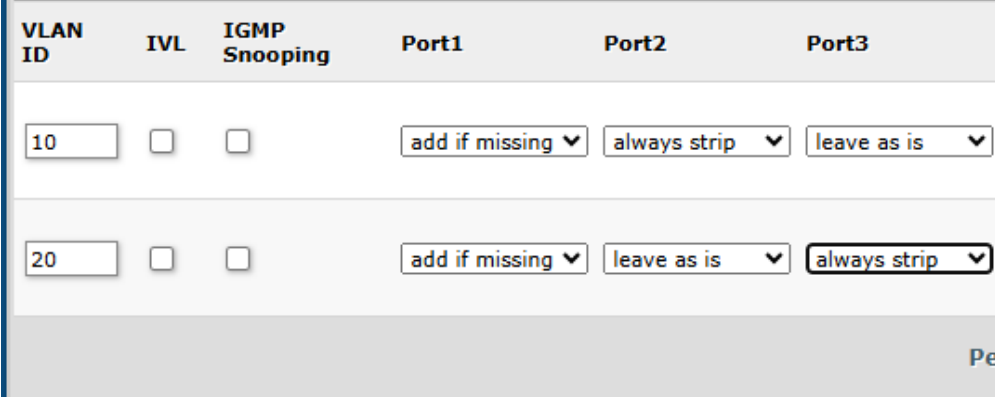
No	Konfigurasi	Hasil/Dokumentasi	Keterangan
			<p>sesuai dengan berapa user yang terhubung. Kelebihannya adalah dapat mendistribusikan paket dengan rata kepada tiap end user lebih banyak dibandingkan dengan queue type hotspot dan pfifo.</p> <p>Disini juga menambahkan incoming dan outgoing marks yang berfungsi untuk menandakan paket sesuai dengan user profiles.</p>

No	Konfigurasi	Hasil/Dokumentasi	Keterangan
11	Filter Firewall (Forward dan Blok)		Blok HTTP, SSH, dan telnet berguna agar router lebih aman dari ancaman pengguna yang ingin masuk ke konfigurasi router. Menambahkan Forward : accept agar traffic yang melewati router tersebut bisa diterima/diperbolehkan lewat, namun harus dibawah dari blok agar firewall bisa melakukan filter blok yang sudah ditentukan terlebih dahulu, baru paket yang lain dapat diizinkan melewati router.

No	Konfigurasi	Hasil/Dokumentasi	Keterangan
12	NAT Firewall		Menambahkan srcnat : masquerade pada port 1-R1 agar IP private bisa keluar menggunakan IP sumber internet.
13	Mangle Firewall		Disini merupakan setting mangle yang berfungsi agar user yang menggunakan hotspot login dapat di jump ke paket marks yang secara otomatis akan muncul dan dapat di setting limitnya di queue.

No	Konfigurasi	Hasil/Dokumentasi	Keterangan																																				
14	IP Routes	 <table><thead><tr><th></th><th>Dst. Address</th><th>Gateway</th><th>Distance</th><th>Routing Table</th></tr></thead><tbody><tr><td>AS</td><td>0.0.0.0/0</td><td>172.16.247.1</td><td>1</td><td>main</td></tr><tr><td>DAC</td><td>10.247.15.0/25</td><td>wlan1</td><td>0</td><td>main</td></tr><tr><td>DAC</td><td>10.247.15.128...</td><td>ether3</td><td>0</td><td>main</td></tr><tr><td>DAC</td><td>10.247.15.144...</td><td>HRD Room</td><td>0</td><td>main</td></tr><tr><td>DAC</td><td>10.247.15.160...</td><td>Marketing Room</td><td>0</td><td>main</td></tr><tr><td>DAC</td><td>172.16.247.0/...</td><td>ether1</td><td>0</td><td>main</td></tr></tbody></table>		Dst. Address	Gateway	Distance	Routing Table	AS	0.0.0.0/0	172.16.247.1	1	main	DAC	10.247.15.0/25	wlan1	0	main	DAC	10.247.15.128...	ether3	0	main	DAC	10.247.15.144...	HRD Room	0	main	DAC	10.247.15.160...	Marketing Room	0	main	DAC	172.16.247.0/...	ether1	0	main	Disini merupakan table route yang berfungsi agar paket dapat melewati melalui traffic tersebut.	
	Dst. Address	Gateway	Distance	Routing Table																																			
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15	Users	 <table><thead><tr><th>Name</th><th>Group</th><th>Allowed Address</th><th>Last Logged In</th></tr></thead><tbody><tr><td>Dzakeff</td><td>full</td><td></td><td></td></tr><tr><td colspan="4">::: system default user</td></tr><tr><td>admin</td><td>full</td><td></td><td>Oct/08/2024 22:13:35</td></tr></tbody></table>	Name	Group	Allowed Address	Last Logged In	Dzakeff	full			::: system default user				admin	full		Oct/08/2024 22:13:35	Demi keamanan extra, saya mengganti user login agar tidak mudah orang lain masuk.																				
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16	Queue	 <table><thead><tr><th>#</th><th>Name</th><th>Target</th><th>Upload Max Limit</th><th>Download Max Limit</th><th>Packet Marks</th></tr></thead><tbody><tr><td>0</td><td>TOTAL</td><td>10.247.15.0/25...</td><td>20M</td><td>20M</td><td></td></tr><tr><td>1</td><td>Direktur</td><td>10.247.15.0/25</td><td>2M</td><td>2M</td><td>Direktur</td></tr><tr><td>3</td><td>Manajer</td><td>10.247.15.0/25</td><td>1M</td><td>1M</td><td>Manajer</td></tr><tr><td>2</td><td>Staff</td><td>10.247.15.0/25</td><td>512k</td><td>512k</td><td>Staff</td></tr><tr><td>4 D</td><td>hs-&lt;hotspot1&gt;</td><td>wlan1</td><td>unlimited</td><td>unlimited</td><td></td></tr></tbody></table>	#	Name	Target	Upload Max Limit	Download Max Limit	Packet Marks	0	TOTAL	10.247.15.0/25...	20M	20M		1	Direktur	10.247.15.0/25	2M	2M	Direktur	3	Manajer	10.247.15.0/25	1M	1M	Manajer	2	Staff	10.247.15.0/25	512k	512k	Staff	4 D	hs-<hotspot1>	wlan1	unlimited	unlimited		Disini merupakan queue yang sudah sesuai dengan packet marks.
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0	TOTAL	10.247.15.0/25...	20M	20M																																			
1	Direktur	10.247.15.0/25	2M	2M	Direktur																																		
3	Manajer	10.247.15.0/25	1M	1M	Manajer																																		
2	Staff	10.247.15.0/25	512k	512k	Staff																																		
4 D	hs-<hotspot1>	wlan1	unlimited	unlimited																																			

- Switch Manage








No	Konfigurasi	Hasil/Dokumentasi	Keterangan
1	Identity		Penting nya memberikan penamaan pada suatu perangkat agar mudah dikenali.
2	VLAN		<p>Only tagged – add if missing berguna untuk mengubah port menjadi port trunk VLAN (yang menyalurkan semua VLAN masuk ke switch.)</p> <p>Only untagged – always strip berguna untuk menandakan port menjadi Access (sebagai perantara agar perangkat terhubung ke suatu VLAN ID.)</p>
3	VLANs		Disini merupakan proses penandaan port ke suatu VLAN ID.

• Hasil Konfigurasi Security Group

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Inbound rules SG-1	<div><div>sg-05a4cce438ba36bf - SG-WEB-AAS-Dzakeff</div><div><div>Actions</div><div><div>Details</div><div><div><div><div>Security group name</div><div>SG-WEB-AAS-Dzakeff</div></div><div><div>Security group ID</div><div>sg-05a4cce438ba36bf</div></div><div><div>Description</div><div>SSH, HTTP/S</div></div><div><div>VPC ID</div><div>vpc-04c8ac22bfa3c8ddb</div></div><div><div>Owner</div><div>547267286937</div></div><div><div>Inbound rules count</div><div>3 Permission entries</div></div><div><div>Outbound rules count</div><div>1 Permission entry</div></div></div></div><div><div>Inbound rules</div><div>Outbound rules</div><div>Tags</div></div><div><div>Inbound rules (3)</div><div><div>Manage tags</div><div>Edit inbound rules</div></div><div><div>Search</div></div><div><div><div><div><div><div></div><div>Name</div></div><div><div></div><div>Security group rule...</div></div><div><div></div><div>IP version</div></div><div><div></div><div>Type</div></div><div><div></div><div>Protocol</div></div><div><div></div><div>Port range</div></div><div><div></div><div>Source</div></div><div><div></div><div>Description</div></div></div><div><div></div><div>-</div><div>sgr-07f8f13b2e008dcec</div><div>IPv4</div><div>HTTPS</div><div>TCP</div><div>443</div><div>0.0.0.0/0</div><div>-</div></div><div><div></div><div>-</div><div>sgr-0daf6b9fe4174e7af</div><div>IPv4</div><div>HTTP</div><div>TCP</div><div>80</div><div>0.0.0.0/0</div><div>-</div></div><div><div></div><div>-</div><div>sgr-060f76930eac69512</div><div>IPv4</div><div>SSH</div><div>TCP</div><div>22</div><div>0.0.0.0/0</div><div>-</div></div></div></div></div></div></div></div></div>



- Hasil Konfigurasi EC2 Instance

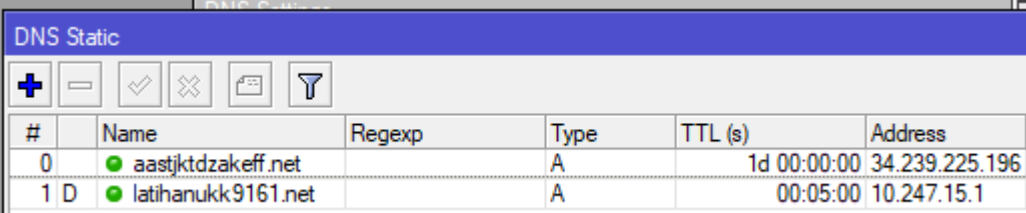
No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Nama Instance	<div><div>Instance summary for i-082a4f5bff97dd9e6 (SRV-AAS-Dzakeff) <a href="#">Info</a></div><div>Updated less than a minute ago</div></div>
2	OS / AMI	<div><div><div>Platform</div><div> Debian (Inferred)</div></div><div><div>Platform details</div><div> Linux/UNIX</div></div></div> <div><div>AMI ID</div><div> <a href="#">ami-064519b8c76274859</a></div></div> <div><div>AMI name</div><div> <a href="#">debian-12-amd64-20240717-1811</a></div></div>
3	Instance type	<div><div>Instance type</div><div>t2.small</div></div>
4	Key Pair	<div><div>Key pair assigned at launch</div><div> <a href="#">vockey</a></div></div>
5	Storage	<div><div><div><div></div><div><a href="#">vol-0bb46c4b467e3807b</a></div><div>/dev/xvda</div><div>15</div><div> Attached</div></div></div></div>

No	Konfigurasi	Screenshot Hasil Konfigurasi				
6	Instance Details	<div><div><div>▼ Instance details <a href="#">Info</a></div><div><div>Platform</div><div><div>Debian (Inferred)</div></div></div><div><div>Platform details</div><div><div>Linux/UNIX</div></div></div><div><div>Stop protection</div><div>Disabled</div></div><div><div>Instance auto-recovery</div><div>Default</div></div><div><div>AMI Launch index</div><div>0</div></div><div><div>Credit specification</div><div>standard</div></div><div><div>Usage operation</div><div><div>RunInstances</div></div></div><div><div>Enclaves Support</div><div>-</div></div><div><div>Allow tags in instance metadata</div><div>Disabled</div></div></div></div> <div><div><div>▼ Host and placement group <a href="#">Info</a></div><div><div>Host ID</div><div>-</div></div><div><div>Host resource group name</div><div>-</div></div><div><div>Virtualization type</div><div><div>hvm</div></div></div></div></div>			<div><div><div>AMI ID</div><div><div>ami-064519b8c76274859</div></div></div><div><div>AMI name</div><div><div>debian-12-amd64-20240717-1811</div></div></div><div><div>Launch time</div><div><div>Sat Sep 28 2024 12:54:22 GMT+0700 (Western Indonesia Time) (11 minutes)</div></div></div><div><div>Lifecycle</div><div>normal</div></div><div><div>Key pair assigned at launch</div><div><div>vockey</div></div></div><div><div>Kernel ID</div><div>-</div></div><div><div>RAM disk ID</div><div>-</div></div><div><div>Boot mode</div><div>-</div></div><div><div>Use RBN as guest OS hostname</div><div><div>Disabled</div></div></div></div>	<div><div><div>Monitoring</div><div>disabled</div></div><div><div>Termination protection</div><div>Disabled</div></div><div><div>AMI location</div><div><div>amazon/debian-12-amd64-20240717-1811</div></div></div><div><div>Stop-hibernate behavior</div><div>Disabled</div></div><div><div>State transition reason</div><div>-</div></div><div><div>State transition message</div><div>-</div></div><div><div>Owner</div><div><div>547267286937</div></div></div><div><div>Current instance boot mode</div><div><div>legacy-bios</div></div></div><div><div>Answer RBN DNS hostname IPv4</div><div><div>Disabled</div></div></div></div>

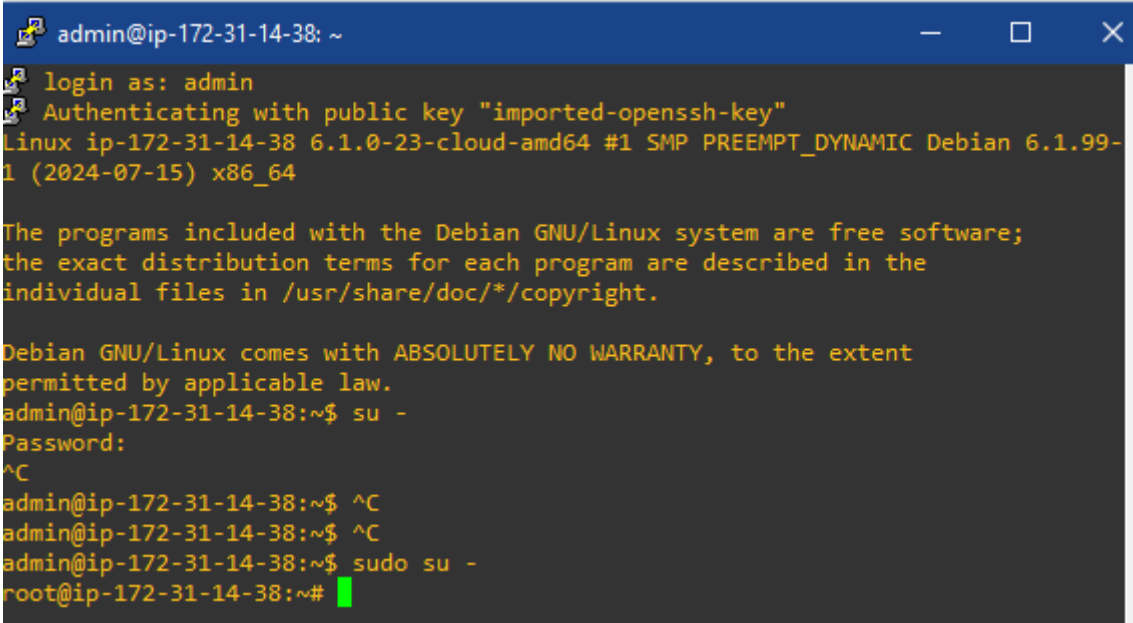
- Hasil Konfigurasi Elastic IP Address

No	Konfigurasi	Screenshot Hasil Konfigurasi																				
1	Buat / Alokasikan Elastic IP	<div><div>EC2 &gt; Elastic IP addresses &gt; 34.239.225.196</div><div><div>34.239.225.196</div><div>Actions ▾</div></div><div><div>Summary</div><table><tr><td>Allocated IPv4 address 📄 34.239.225.196</td><td>Type 📄 Public IP</td><td>Allocation ID 📄 eipalloc-05a3e2a88f2d6bea0</td><td>Reverse DNS record -</td></tr><tr><td>Association ID 📄 eipassoc-0a888a2b3d70f0c83</td><td>Scope 📄 VPC</td><td>Associated instance ID <a href="#">i-082a4f5bff97dd9e6</a></td><td>Private IP address 📄 172.31.12.37</td></tr><tr><td>Network interface ID <a href="#">eni-0b5b3388da6bc1221</a></td><td>Network interface owner account ID 📄 547267286937</td><td>Public DNS 📄 ec2-34-239-225-196.compute-1.amazonaws.com</td><td>NAT Gateway ID -</td></tr><tr><td>Address pool 📄 Amazon</td><td>Network border group 📄 us-east-1</td><td></td><td></td></tr></table></div><div><div>Tags(1)</div><table><tr><th>Key</th><th>Value</th></tr><tr><td>Elastic IP</td><td>IP-AAS-Dzakeff</td></tr></table></div></div>	Allocated IPv4 address 📄 34.239.225.196	Type 📄 Public IP	Allocation ID 📄 eipalloc-05a3e2a88f2d6bea0	Reverse DNS record -	Association ID 📄 eipassoc-0a888a2b3d70f0c83	Scope 📄 VPC	Associated instance ID <a href="#">i-082a4f5bff97dd9e6</a>	Private IP address 📄 172.31.12.37	Network interface ID <a href="#">eni-0b5b3388da6bc1221</a>	Network interface owner account ID 📄 547267286937	Public DNS 📄 ec2-34-239-225-196.compute-1.amazonaws.com	NAT Gateway ID -	Address pool 📄 Amazon	Network border group 📄 us-east-1			Key	Value	Elastic IP	IP-AAS-Dzakeff
Allocated IPv4 address 📄 34.239.225.196	Type 📄 Public IP	Allocation ID 📄 eipalloc-05a3e2a88f2d6bea0	Reverse DNS record -																			
Association ID 📄 eipassoc-0a888a2b3d70f0c83	Scope 📄 VPC	Associated instance ID <a href="#">i-082a4f5bff97dd9e6</a>	Private IP address 📄 172.31.12.37																			
Network interface ID <a href="#">eni-0b5b3388da6bc1221</a>	Network interface owner account ID 📄 547267286937	Public DNS 📄 ec2-34-239-225-196.compute-1.amazonaws.com	NAT Gateway ID -																			
Address pool 📄 Amazon	Network border group 📄 us-east-1																					
Key	Value																					
Elastic IP	IP-AAS-Dzakeff																					
2	Associate Elastic IP to EC2 Instance (Pasang Elastic IP ke EC2 Instance)	<div><div>✔ Elastic IP address associated successfully.</div><div>Elastic IP address 34.239.225.196 has been associated with instance i-082a4f5bff97dd9e6</div></div>																				

- Hasil Konfigurasi DNS Lokal di MikroTik

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Tampilan tabel DNS Lokal di router MikroTik	

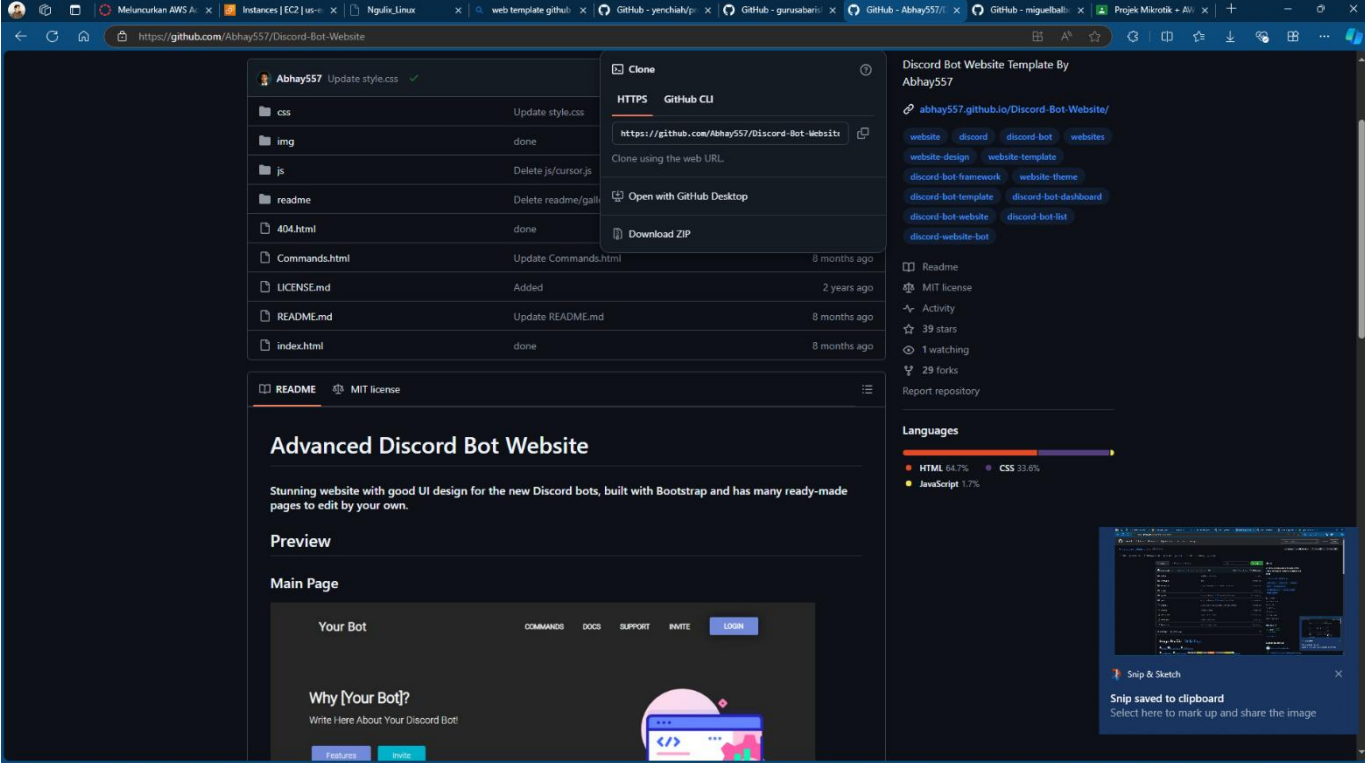
- Hasil Konfigurasi Web Server (Apache2 atau NGINX) dan Clone Sources-Code

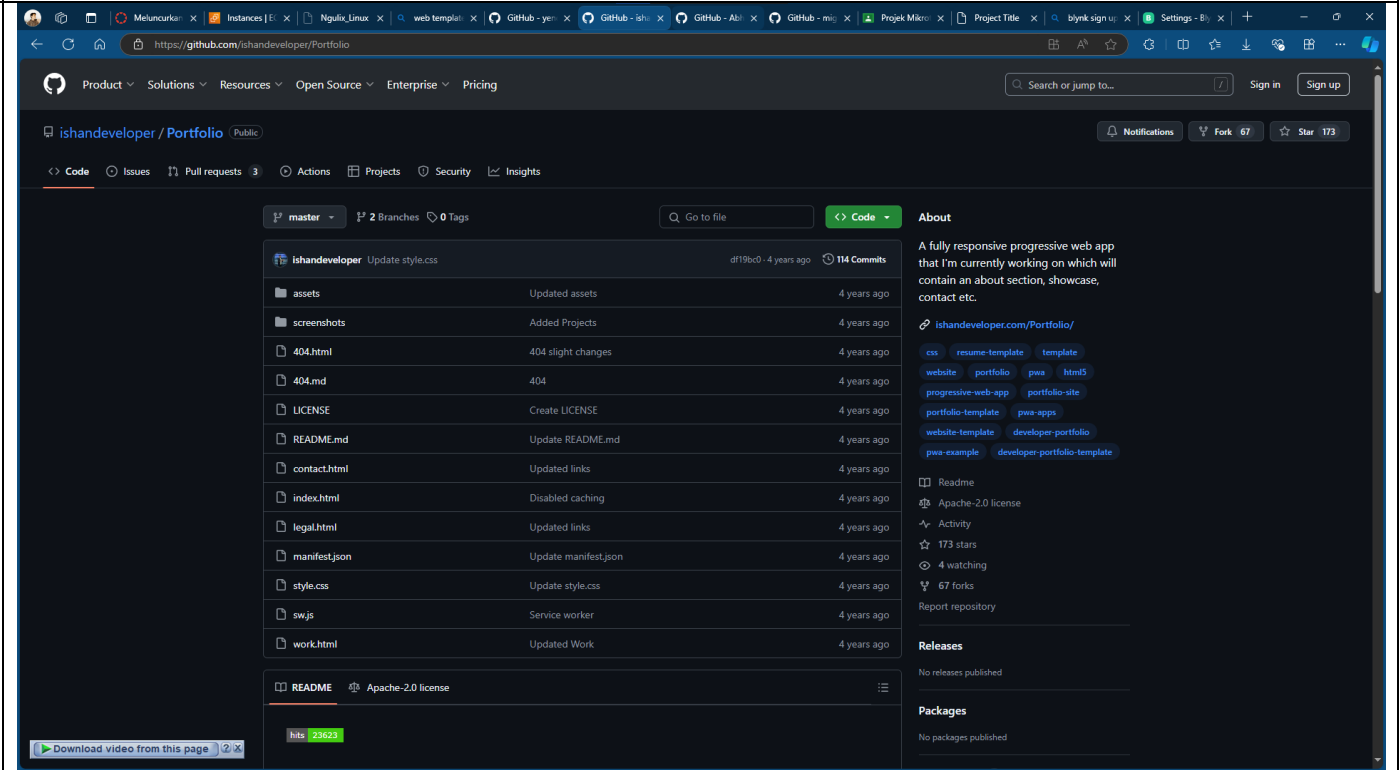
No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Remote server menggunakan SSH Client	 <pre> admin@ip-172-31-14-38: ~ login as: admin Authenticating with public key "imported-openssh-key" Linux ip-172-31-14-38 6.1.0-23-cloud-amd64 #1 SMP PREEMPT_DYNAMIC Debian 6.1.99-1 (2024-07-15) x86_64  The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.  Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law. admin@ip-172-31-14-38:~\$ su - Password: ^C admin@ip-172-31-14-38:~\$ ^C admin@ip-172-31-14-38:~\$ ^C admin@ip-172-31-14-38:~\$ sudo su - root@ip-172-31-14-38:~# </pre>

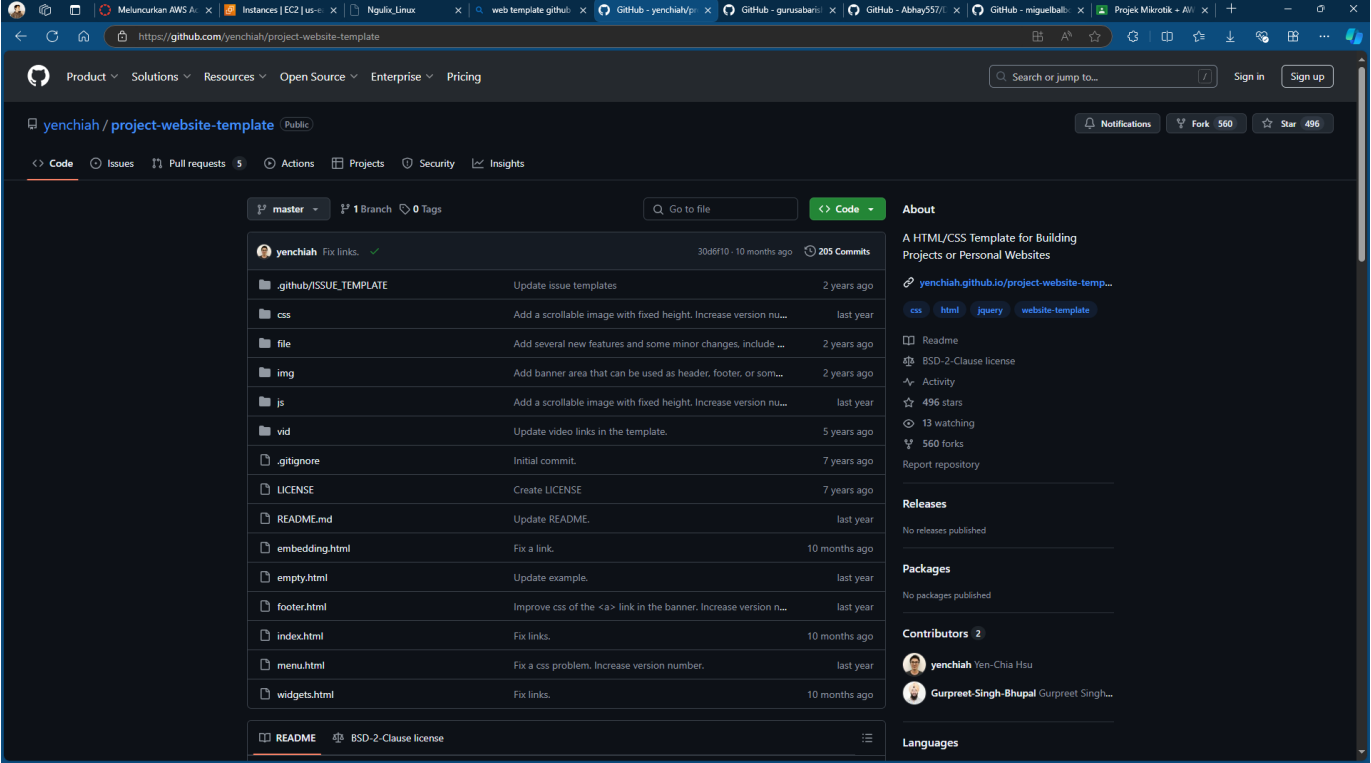
No	Konfigurasi	Screenshot Hasil Konfigurasi
2	Install services apache2, php, library php, unzip dan git	<pre> root@ip-172-31-14-38:~# apt list apache2 php php-fpm tar git Listing... Done apache2/stable-security,now 2.4.62-1~deb12u2 amd64 [installed] git/stable-security,now 1:2.39.5-0+deb12u1 amd64 [installed] php-fpm/stable,now 2:8.2+93 all [installed] php/stable,now 2:8.2+93 all [installed] tar/stable,now 1.34+dfsg-1.2+deb12u1 amd64 [installed] root@ip-172-31-14-38:~# </pre>
3	Restart service web server	<pre> root@ip-172-31-14-38:~# systemctl enable apache2 Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install. Executing: /lib/systemd/systemd-sysv-install enable apache2 root@ip-172-31-14-38:~# systemctl restart apache2 root@ip-172-31-14-38:~# </pre>

- Hasil Konfigurasi Clone Sourcescode Web Statis dari Github

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Buat direktori baru /var/www/html/web1 /var/www/html/web2 /var/www/html/web3	<pre> root@ip-172-31-14-38:~# mkdir /var/www/html/web1 root@ip-172-31-14-38:~# mkdir /var/www/html/web2 root@ip-172-31-14-38:~# mkdir /var/www/html/web3 root@ip-172-31-14-38:~# </pre>

No	Konfigurasi	Screenshot Hasil Konfigurasi
2	<p>3 link sourcecode / screenshot tampilan repository github</p> <p><b>** Sertakan 3 screenshot</b></p>	 <p>Web1</p>

No	Konfigurasi	Screenshot Hasil Konfigurasi
		<div data-bbox="725 304 2119 1077"></div> <div data-bbox="725 1077 2119 1120">Web2</div>

No	Konfigurasi	Screenshot Hasil Konfigurasi
		
3	Clone source code <b>** Sertakan 3 screenshot</b>	<pre> root@ip-172-31-14-38:/var/www/html# git clone https://github.com/gurusabarish/hugo-profile.git web2 Cloning into 'web2'... remote: Enumerating objects: 7678, done. remote: Counting objects: 100% (209/209), done. remote: Compressing objects: 100% (137/137), done. remote: Total 7678 (delta 123), reused 130 (delta 71), pack-reused 7469 (from 1) Receiving objects: 100% (7678/7678), 26.80 MiB   42.16 MiB/s, done. Resolving deltas: 100% (2706/2706), done. </pre>



No	Konfigurasi	Screenshot Hasil Konfigurasi
		<pre> root@ip-172-31-14-38:/var/www/html# git clone https://github.com/ishandeveloper/Portfolio.git web2 Cloning into 'web2'... remote: Enumerating objects: 522, done. remote: Counting objects: 100% (200/200), done. remote: Compressing objects: 100% (17/17), done. remote: Total 522 (delta 190), reused 183 (delta 183), pack-reused 322 (from 1) Receiving objects: 100% (522/522), 22.84 MiB   47.63 MiB/s, done. Resolving deltas: 100% (248/248), done. root@ip-172-31-14-38:/var/www/html# ls web2 404.html  LICENSE  assets      index.html  manifest.json  style.css  work.html 404.md    README.md  contact.html  legal.html  screenshots    sw.js root@ip-172-31-14-38:/var/www/html# git clone https://github.com/yenchiah/project-website-template.git web3 Cloning into 'web3'... remote: Enumerating objects: 1127, done. remote: Total 1127 (delta 0), reused 0 (delta 0), pack-reused 1127 (from 1) Receiving objects: 100% (1127/1127), 1.67 MiB   37.97 MiB/s, done. Resolving deltas: 100% (707/707), done. root@ip-172-31-14-38:/var/www/html# </pre>
4	<p>Cek isi direktori web1, web2, dan web3</p> <p><b>** Sertakan 3 screenshot</b></p>	<pre> root@ip-172-31-14-38:/var/www/html# ls web2 404.html  LICENSE  assets      index.html  manifest.json  style.css  work.html 404.md    README.md  contact.html  legal.html  screenshots    sw.js root@ip-172-31-14-38:/var/www/html# ls web1 404.html  Commands.html  LICENSE.md  README.md  css  img  index.html  index.html.save  js  readme root@ip-172-31-14-38:/var/www/html# ls web3 LICENSE  README.md  css  embedding.html  empty.html  file  footer.html  img  index.html  js  menu.html  vid  widgets.html root@ip-172-31-14-38:/var/www/html# </pre>

7	Edit tampilan website : web1	<pre> web1/index.html * sheet" type="text/css" href="./css/txtformatting.css"&gt; sheet" type="text/css" href="./css/shadow.css"&gt; sheet" type="text/css" href="./css/loading.css"&gt; sheet" type="text/css" href="./css/cursor.css"&gt;  e --&gt; sheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta2/css  ing" id="loading-box"&gt; ading-item"&gt;&lt;div class="loading-progress"&gt;&lt;/div&gt;&lt;/div&gt;  n"&gt; &gt; vbar"&gt; container"&gt; &lt;"navbar-nav"&gt; ss="navbar-brand"&gt; ou can change it with Image if you want. --&gt; class="navbar-brand-txt"&gt;&lt;a class="txt-bold type-1" href="/"&gt;Dzakeff&lt;/a&gt;&lt;/span&gt;  ss="navbar-toggler" id="toggler"&gt;&lt;i onclick="toggleNavbar(this)" class="fas fa- ss="navs" id="navs"&gt; ou can change the href value and the text value --&gt; lass="navs-item notbtn"&gt;&lt;a href="Commands.html" class="txt-uppercase"&gt;Commands&lt;/ lass="navs-item notbtn"&gt;&lt;a href="#" class="txt-uppercase"&gt;Docs&lt;/a&gt;&lt;/div&gt; lass="navs-item notbtn"&gt;&lt;a href="#" class="txt-uppercase"&gt;Support&lt;/a&gt;&lt;/div&gt; lass="navs-item notbtn"&gt;&lt;a href="#" class="txt-uppercase"&gt;Invite&lt;/a&gt;&lt;/div&gt; lass="navs-item"&gt;&lt;a href="#"&gt;&lt;button class="btn txt-uppercase shadow-sm"&gt;Login&lt;/  d --&gt; --&gt; mbotron"&gt; container"&gt; &lt;"jumbotron-items"&gt; ss="jumbotron-item"&gt; class="jumbotron-t"&gt;Why Dzakeff?&lt;/span&gt; ss="jumbotron-d"&gt;Dzakeff merupakan Bot discord terbaik yang ada di dunia!&lt;/p&gt; lass="jumbotron-buttons"&gt; ton class="btn" onclick="location.href='#features'"&gt;Features&lt;/button&gt; ton class="btn blue" onclick="location.href='#'"&gt;Invite&lt;/button&gt; </pre>
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No	Konfigurasi	Screenshot Hasil Konfigurasi
8	Edit tampilan website : web2	<pre>         &lt;/div&gt;          &lt;/center&gt;       &lt;/nav&gt;       &lt;div class="animated fadeIn row" style="width:100vw;animation-duration: 1.5s;"&gt;         &lt;div class="col-md-6" id="left-hero"&gt;           &lt;h1 class="hero-tag"&gt;&lt;span class="typer" id="main" data-words="Hi, I'm Dzakeff." data-delay="100"             data-deleteDelay="1000" data-loop="1" style="color:blue!important;"&gt;&lt;/span&gt;             &amp;nbsp;  &lt;/h1&gt;           &lt;p class="hero-des"&gt;Saya merupakan pelajar dari &lt;b&gt;SMK Wikrama Bogor&lt;/b&gt; di jurusan &lt;b&gt;TJKT&lt;/b&gt;.             Jika ingin joki MikrTik, WebServer, Dll. Saya siap membantu.           &lt;/p&gt;           &lt;script async src="https://unpkg.com/typer-dot-js@0.1.0/typer.js"&gt;&lt;/script&gt;           &lt;button class="animated bounce delay-4s learn-btn"&gt; </pre>
9	Edit tampilan website : web3	 <pre> admin@ip-172-31-14-38: ~ GNU nano 7.2 web3/index.html * &lt;body&gt;   &lt;div class="menu-container"&gt;&lt;/div&gt;   &lt;div class="content-container"&gt;     &lt;!--Start Header--&gt;     &lt;div class="banner" style="background: url('img/dummy-background.jpeg') no-     &lt;div class="banner"&gt;       &lt;div class="banner-table flex-column"&gt;         &lt;div class="flex-row"&gt;           &lt;div class="flex-item flex-column"&gt;             &lt;h2 class="add-top-margin-small"&gt;Profile&lt;/h2&gt;             &lt;p class="text"&gt;               Saya Muhamad Dzakwan Ar Efendi yang sedang berpendidikan di SMK W </pre>

No	Konfigurasi	Screenshot Hasil Konfigurasi
10	Restart dan cek status service web server	<pre> root@ip-172-31-14-38:/var/www/html# systemctl restart apache2 root@ip-172-31-14-38:/var/www/html# systemctl status apache2 ● apache2.service - The Apache HTTP Server    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; preset: enabled)    Active: active (running) since Thu 2024-10-10 10:56:21 UTC; 5s ago      Docs: https://httpd.apache.org/docs/2.4/    Process: 610 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)    Main PID: 615 (apache2)     Tasks: 6 (limit: 2345)    Memory: 11.6M       CPU: 31ms    CGroup: /system.slice/apache2.service </pre>

- Hasil Konfigurasi DBMS MariaDB

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Install mariadb-server	<pre> Listing... Done libapache2-mod-php/stable,now 2:8.2+93 all [installed] mariadb-server/stable,now 1:10.11.6-0+deb12u1 amd64 [installed] php-cli/stable,now 2:8.2+93 all [installed] php-mysql/stable,now 2:8.2+93 all [installed] root@ip-172-31-14-38:~# </pre>

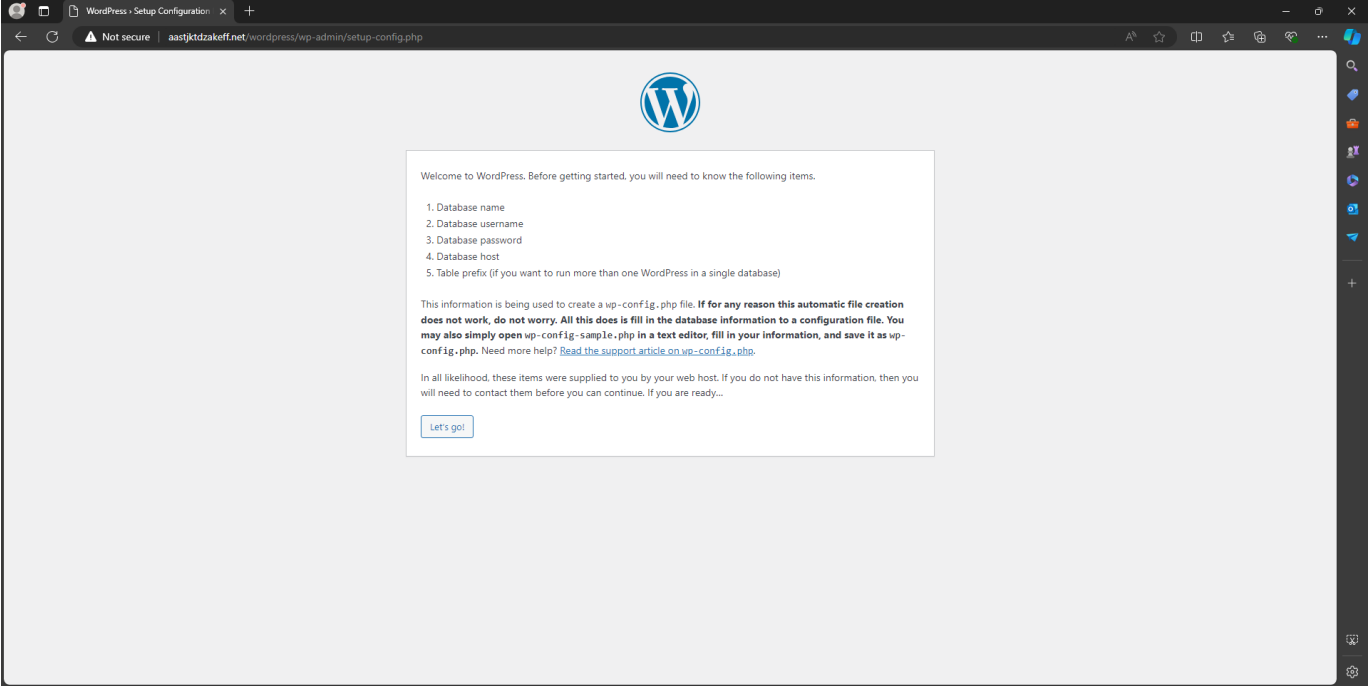
2	Konfigurasi instalasi aman mysql (mysql secure installation)	<pre> Enter current password for root (enter for none): OK, successfully used password, moving on...  Setting the root password or using the unix_socket ensures that nobody can log into the MariaDB root user without the proper authorisation.  You already have your root account protected, so you can safely answer 'n'  Switch to unix_socket authentication [Y/n] n ... skipping.  You already have your root account protected, so you can safely answer 'n'  Change the root password? [Y/n] y New password: Re-enter new password: Password updated successfully! Reloading privilege tables.. ... Success!  By default, a MariaDB installation has an anonymous user, allowing anyone to log into MariaDB without having to have a user account created for them. This is intended only for testing, and to make the installation go a bit smoother. You should remove them before moving into a production environment.  Remove anonymous users? [Y/n] y ... Success!  Normally, root should only be allowed to connect from 'localhost'. This ensures that someone cannot guess at the root password from the network.  Disallow root login remotely? [Y/n] n ... skipping.  By default, MariaDB comes with a database named 'test' that anyone can access. This is also intended only for testing, and should be removed before moving into a production environment.  Remove test database and access to it? [Y/n] n ... skipping.  Reloading the privilege tables will ensure that all changes made so far will take effect immediately.  Reload privilege tables now? [Y/n] y ... Success!  Cleaning up...  All done! If you've completed all of the above steps, your MariaDB installation should now be secure.  Thanks for using MariaDB! </pre>	
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No	Konfigurasi	Screenshot Hasil Konfigurasi
3	Membuat database baru	<pre> root@ip-172-31-14-38:~# mysql -u root -p Enter password: Welcome to the MariaDB monitor.  Commands end with ; or \g. Your MariaDB connection id is 47 Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12  Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  MariaDB [(none)]&gt; create database dbwpdzakeff; Query OK, 1 row affected (0.000 sec)  MariaDB [(none)]&gt; create user 'userdzakeff'@'localhost' identified by 'ukktkj2024'; Query OK, 0 rows affected (0.002 sec) </pre>
4	Membuat user database baru	<pre> root@ip-172-31-14-38:~# mysql -u root -p Enter password: Welcome to the MariaDB monitor.  Commands end with ; or \g. Your MariaDB connection id is 47 Server version: 10.11.6-MariaDB-0+deb12u1 Debian 12  Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.  Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  MariaDB [(none)]&gt; create database dbwpdzakeff; Query OK, 1 row affected (0.000 sec)  MariaDB [(none)]&gt; create user 'userdzakeff'@'localhost' identified by 'ukktkj2024'; Query OK, 0 rows affected (0.002 sec) </pre>
5	Konfigurasi privileges untuk user baru	<pre> MariaDB [(none)]&gt; grant all privileges on *.* to 'userdzakeff'@'localhost'; Query OK, 0 rows affected (0.001 sec)  MariaDB [(none)]&gt; flush privileges; Query OK, 0 rows affected (0.000 sec) </pre>

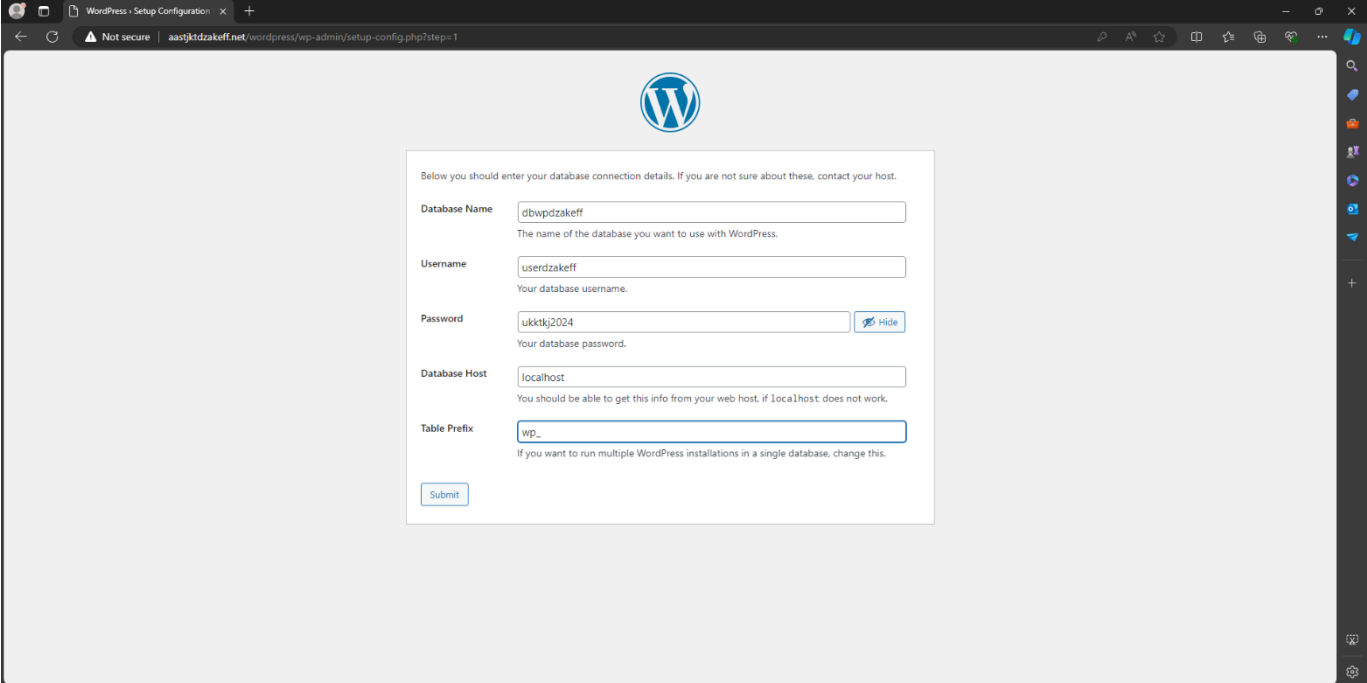
No	Konfigurasi	Screenshot Hasil Konfigurasi
6	Restart dan cek status service mysql	<pre> root@ip-172-31-14-38:~# systemctl restart mysql root@ip-172-31-14-38:~# systemctl status mysql ● mariadb.service - MariaDB 10.11.6 database server    Loaded: loaded (/lib/systemd/system/mariadb.service; enabled; preset: enabled)    Active: active (running) since Thu 2024-10-10 14:48:29 UTC; 13s ago      Docs: man:mariadb(8)            https://mariadb.com/kb/en/library/systemd/ </pre>

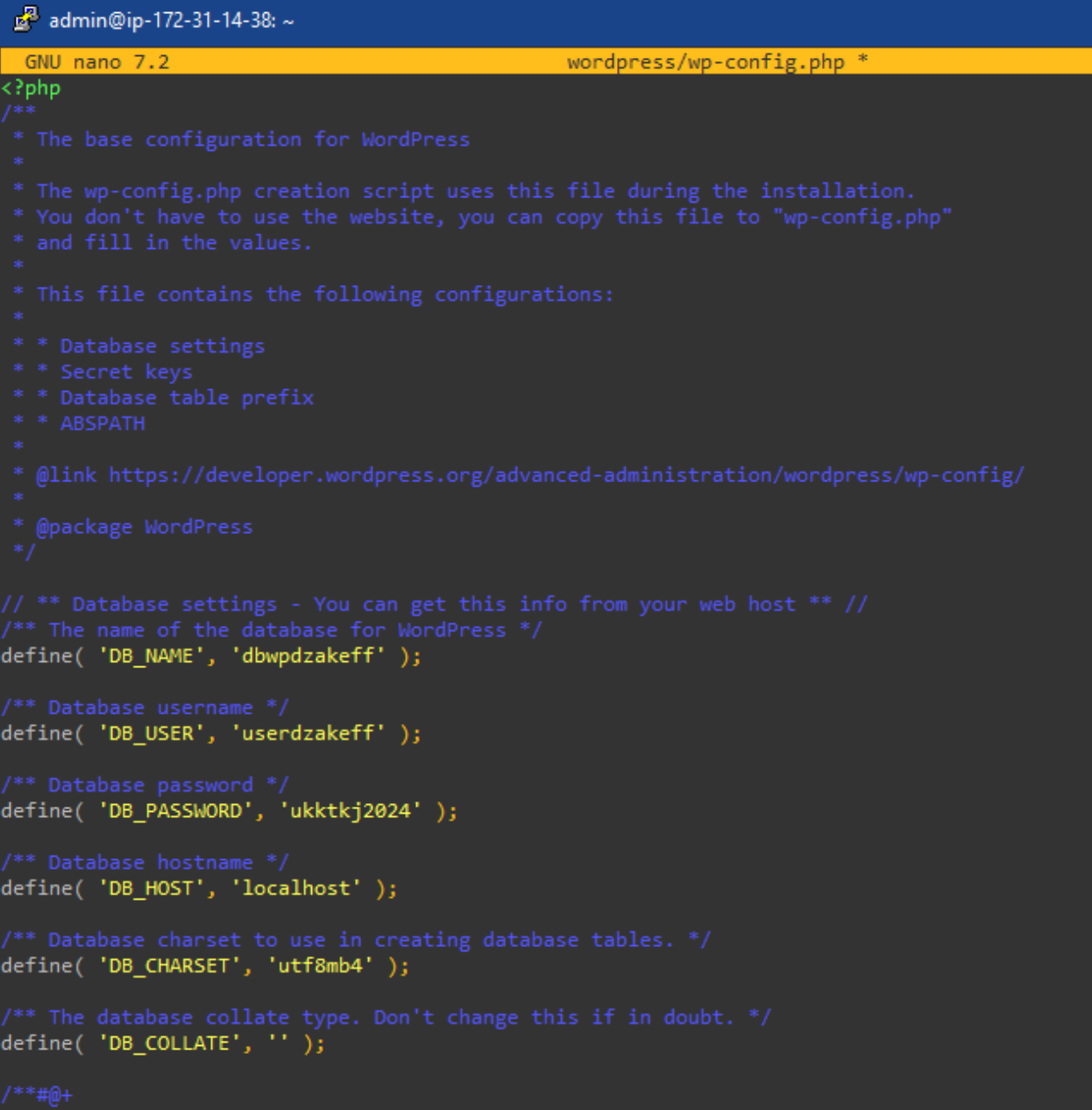
• Hasil Konfigurasi Wordpress

No	Konfigurasi	Screenshot Hasil Konfigurasi
1	Cek database untuk wordpress di terminal mysql	<pre> MariaDB [(none)]&gt; show databases; +-----+   Database   +-----+   dbwpdzakeff     information_schema     mysql     performance_schema     sys   +-----+ </pre>
2	Cek direktori /var/www/html/wordpress	<pre> root@ip-172-31-14-38:/var/www/html# ls wordpress/ index.php  readme.html  wp-blog-header.php  wp-content  wp-links-opml.php  wp-mail.php  wp-trackback.php license.txt  wp-activate.php  wp-comments-post.php  wp-cron.php  wp-load.php  wp-settings.php  xmlrpc.php log  wp-admin  wp-config-sample.php  wp-includes  wp-login.php  wp-signup.php root@ip-172-31-14-38:/var/www/html# </pre>

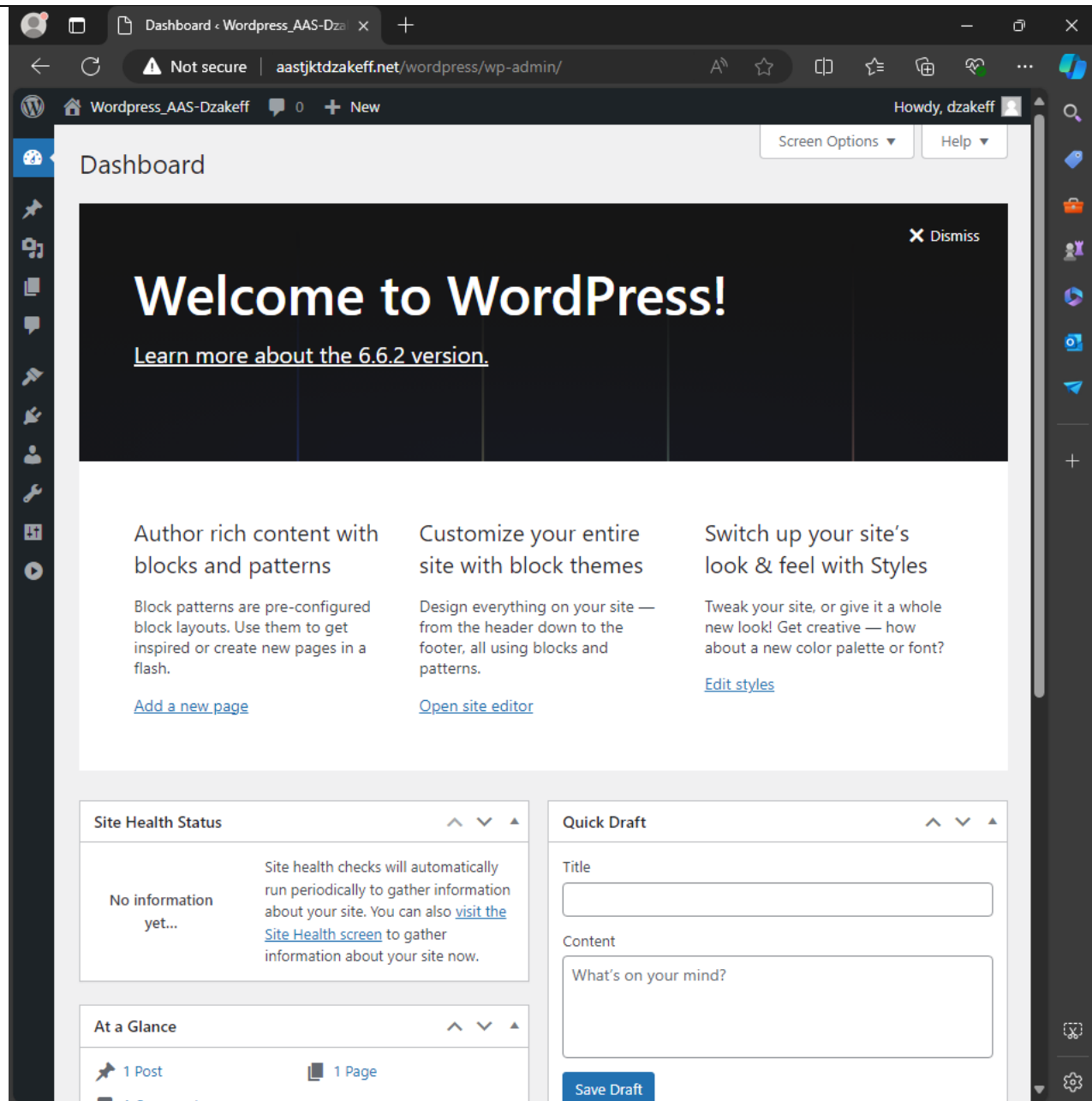
No	Konfigurasi	Screenshot Hasil Konfigurasi
3	Akses website wordpress	




No	Konfigurasi	Screenshot Hasil Konfigurasi
4	Konfigurasi databases (via browser)	

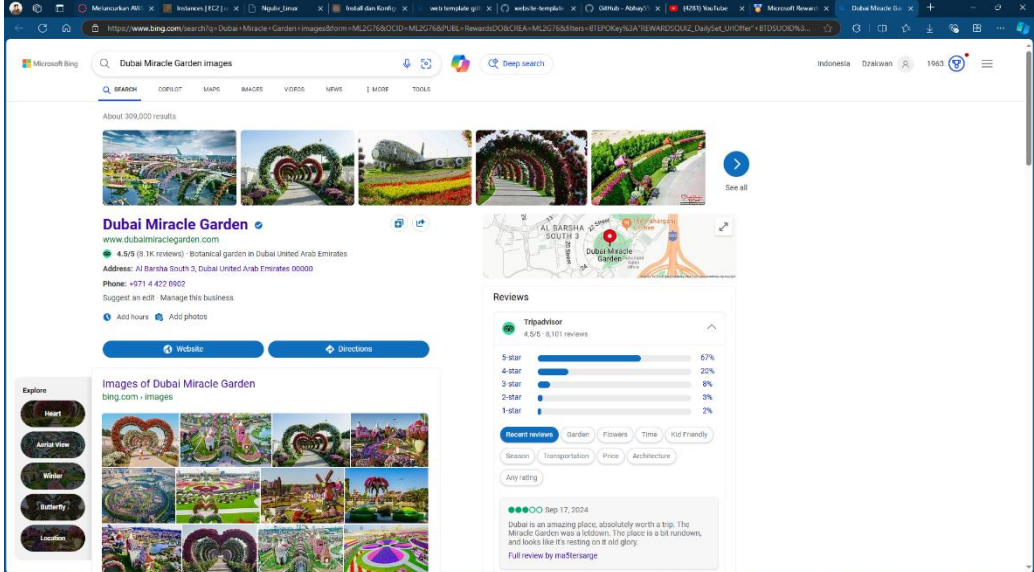
5	Konfigurasi Information Website (via browser)	 <pre> admin@ip-172-31-14-38: ~ GNU nano 7.2                               wordpress/wp-config.php * &lt;?php /**  * The base configuration for WordPress  *  * The wp-config.php creation script uses this file during the installation.  * You don't have to use the website, you can copy this file to "wp-config.php"  * and fill in the values.  *  * This file contains the following configurations:  *  * * Database settings  * * Secret keys  * * Database table prefix  * * ABSPATH  *  * @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/  *  * @package WordPress  */  // ** Database settings - You can get this info from your web host ** // /** The name of the database for WordPress */ define( 'DB_NAME', 'dbwpdzakeff' );  /** Database username */ define( 'DB_USER', 'userdzakeff' );  /** Database password */ define( 'DB_PASSWORD', 'ukktkj2024' );  /** Database hostname */ define( 'DB_HOST', 'localhost' );  /** Database charset to use in creating database tables. */ define( 'DB_CHARSET', 'utf8mb4' );  /** The database collate type. Don't change this if in doubt. */ define( 'DB_COLLATE', '' );  /**#@+  * @since 2.6.0  * @access private  * @var string  */ </pre>
---	--	---

6 Akses wp-admin



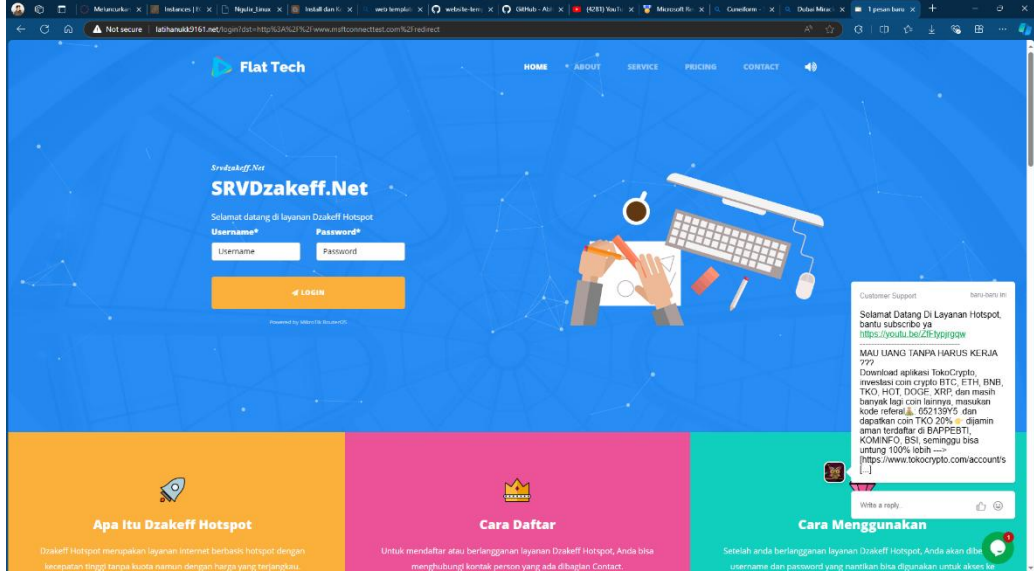

No	Konfigurasi	Screenshot Hasil Konfigurasi
7	Buat 1 postingan baru	 The screenshot shows a web browser window with the address bar displaying 'aastjkttdzakeff.net/wordpress/?p=5'. The page title is 'Wordpress_AAS-Dzakeff' and the page content includes the heading 'Berhasil guys', the date 'Oct 10, 2024', the author 'by dzakeff', and the category 'Uncategorized'. The post content is 'Alhamdulillah'. The browser interface includes a 'Not secure' warning, navigation buttons, and a user profile 'Howdy, dzakeff'.

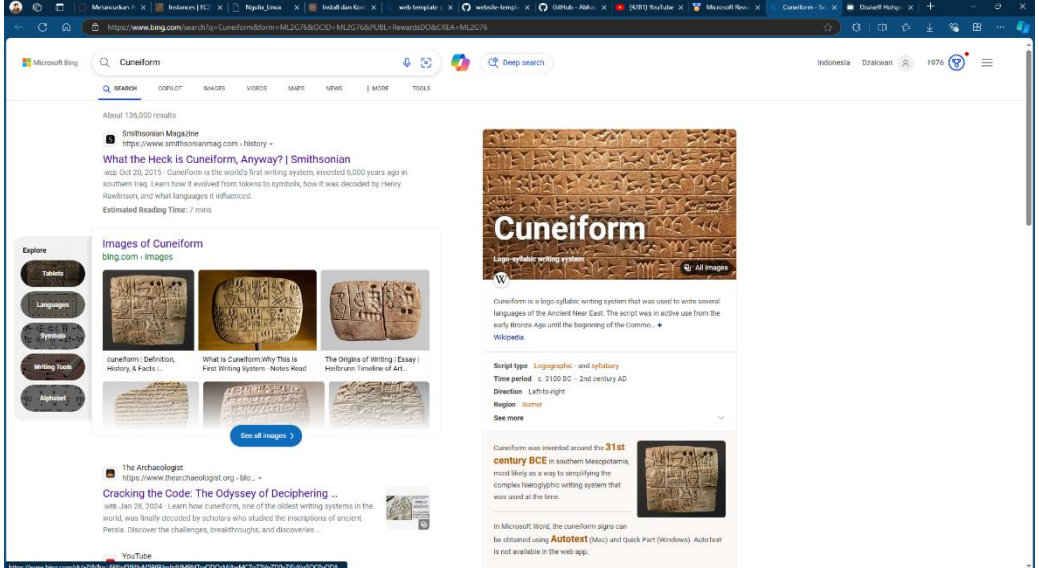
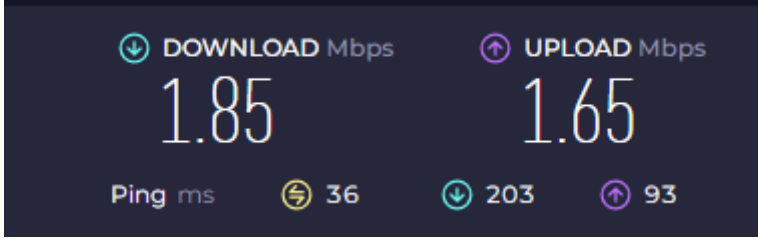
## B. HASIL UJI KONFIGURASI

No	Pengecekan	Hasil/Dokumentasi	Keterangan
<b>Uji Coba Client jaringan Marketing Room</b>			
1.	IP Address Client Marketing Room	<pre> Ethernet adapter Ethernet:  Connection-specific DNS Suffix  . :  Link-local IPv6 Address . . . . . : fe80::ad67:a7a5:6fb3:6e79%19 IPv4 Address. . . . . : 10.247.15.174 Subnet Mask . . . . . : 255.255.255.240 Default Gateway . . . . . : 10.247.15.161           </pre>	DHCP Server VLAN 20 berhasil.
2.	Browsing Internet		Internet aman.

No	Pengecekan	Hasil/Dokumentasi	Keterangan
3.	Ping ke IP Client HRD Room	<pre> C:\Users\user&gt;ping 10.247.15.145  Pinging 10.247.15.145 with 32 bytes of data: Reply from 10.247.15.145: bytes=32 time&lt;1ms TTL=64 Reply from 10.247.15.145: bytes=32 time&lt;1ms TTL=64 Reply from 10.247.15.145: bytes=32 time&lt;1ms TTL=64 Reply from 10.247.15.145: bytes=32 time=1ms TTL=64  Ping statistics for 10.247.15.145:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 0ms, Maximum = 1ms, Average = 0ms </pre>	IP routes berhasil.

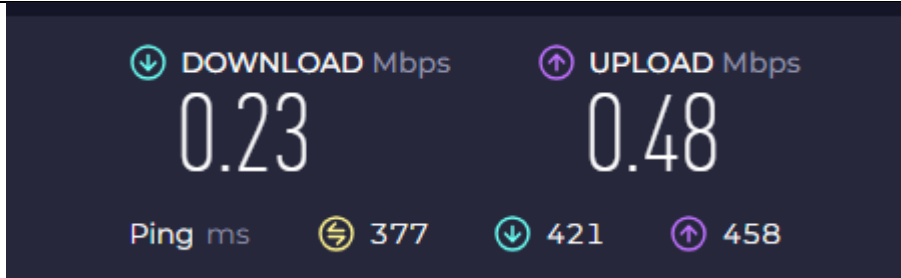
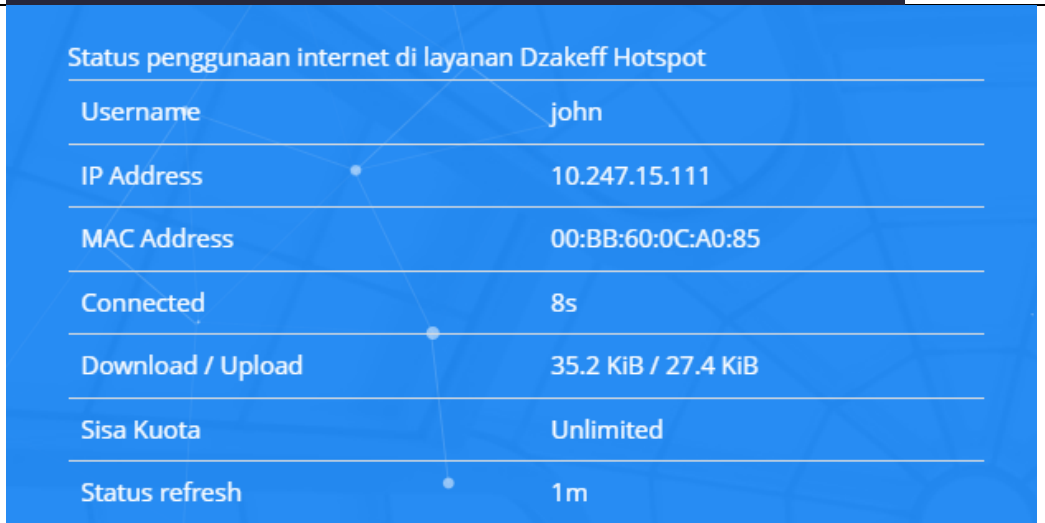
No	Pengecekan	Hasil/Dokumentasi	Keterangan
<b>Uji Coba Client Public WiFi Area</b>			
1.	IP Address Client Public WiFi Area	<pre> Wireless LAN adapter Wi-Fi:  Connection-specific DNS Suffix  . : Link-local IPv6 Address . . . . . : fe80::3a72:8025:f0d0:24db%8 IPv4 Address. . . . . : 10.247.15.111 Subnet Mask . . . . . : 255.255.255.128 Default Gateway . . . . . : 10.247.15.1 </pre>	DHCP Server hotspot wlan1 berhasil.

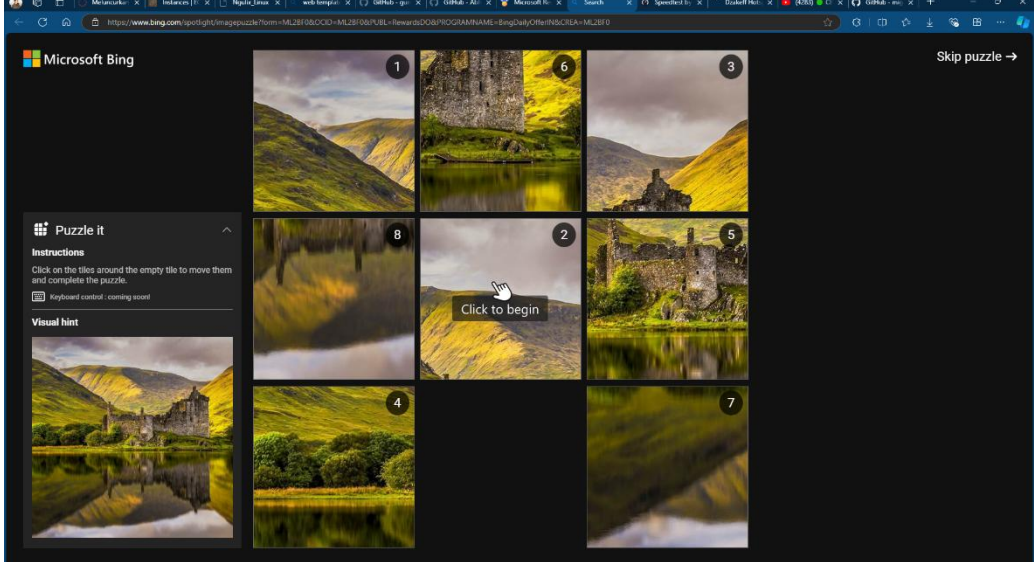
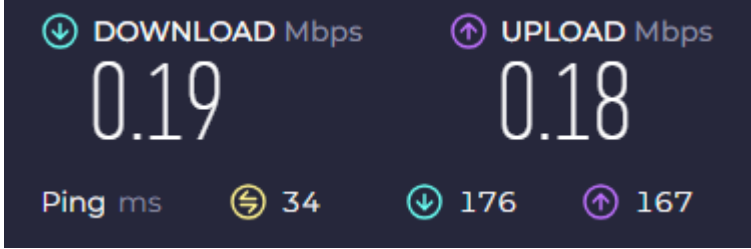
No	Pengecekan	Hasil/Dokumentasi	Keterangan																
2.	Tampilan Login Hotspot		Webpage hotspot berhasil terpenggil.																
3.	Login Hotspot Direktur	 <table><tr><th colspan="2">Status penggunaan internet di layanan Dzakeff Hotspot</th></tr><tr><td>Username</td><td>michael</td></tr><tr><td>IP Address</td><td>10.247.15.111</td></tr><tr><td>MAC Address</td><td>00:BB:60:0C:A0:85</td></tr><tr><td>Connected</td><td>12s</td></tr><tr><td>Download / Upload</td><td>192 B / 2.4 KiB</td></tr><tr><td>Sisa Kuota</td><td>Unlimited</td></tr><tr><td>Status refresh</td><td>1m</td></tr></table>	Status penggunaan internet di layanan Dzakeff Hotspot		Username	michael	IP Address	10.247.15.111	MAC Address	00:BB:60:0C:A0:85	Connected	12s	Download / Upload	192 B / 2.4 KiB	Sisa Kuota	Unlimited	Status refresh	1m	User direktur berhasil masuk.
Status penggunaan internet di layanan Dzakeff Hotspot																			
Username	michael																		
IP Address	10.247.15.111																		
MAC Address	00:BB:60:0C:A0:85																		
Connected	12s																		
Download / Upload	192 B / 2.4 KiB																		
Sisa Kuota	Unlimited																		
Status refresh	1m																		

No	Pengecekan	Hasil/Dokumentasi	Keterangan
4.	Browsing User Direktur		Internet aman.
5.	Speedtest User Direktur		Bila hanya terdapat satu user pada suatu user profiles saja, paket dapat dikirim sampai max limit. Jika terdapat dua user akan terbagi rata sampai jumlah user seterusnya.



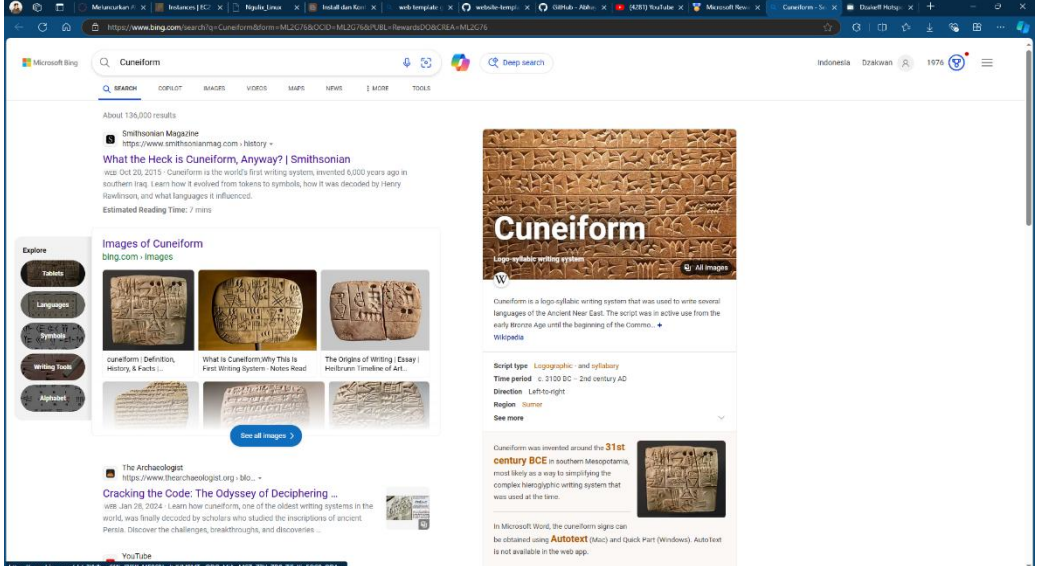
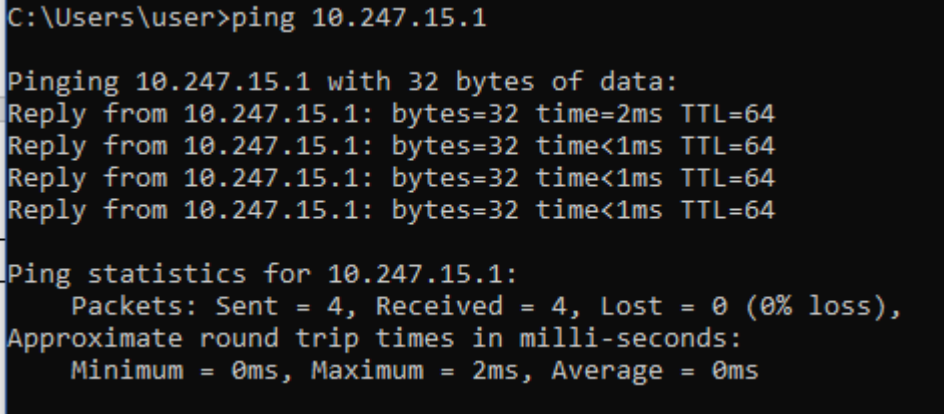
6.	Login Hotspot Manajer	<div><div>Status penggunaan internet di layanan Dzakeff Hotspot</div><div><div><div>Username</div><div>jeany</div></div><div><div>IP Address</div><div>10.247.15.111</div></div><div><div>MAC Address</div><div>00:BB:60:0C:A0:85</div></div><div><div>Connected</div><div>1h4m35s</div></div><div><div>Download / Upload</div><div>26.8 MiB / 4.4 MiB</div></div><div><div>Sisa Kuota</div><div>Unlimited</div></div><div><div>Status refresh</div><div>1m</div></div></div></div>	<div>Berhasil menggunakan login user manajer.</div>
7.	Browsing User Manajer	<div><div><div>Microsoft Bing</div><div>Leathercraft Projects</div><div>SEARCH COPYLOT IMAGES VIDEOS MAPS NEWS MORE TOOLS</div><div>About 110,000 results</div><div><div>Here are some leathercraft projects for beginners:</div><div><div>1. Cable tie holder</div><div>2. Triangle coin pouch</div><div>3. Key chain</div><div>4. Envelope cash/coin/card wallet/pouch (no sew)</div><div>5. Sunglasses sleeve (no sew)</div><div>6. Lens cap holder</div><div>7. Sewing awl sheath/cover</div><div>8. Apple Pencil sleeve</div></div><div>Additionally, there are more advanced leather craft ideas such as file folders, magazine holders, wine racks, and iPad cases</div></div><div><div>Learn more:</div><div><div>8 Easy beginner leather craft projects made from remnants/scrap</div><div>18 Gorgeous Leather Craft Ideas - The Spruce Crafts</div></div></div><div><div>People also ask</div><div><div>What is a beginner Leather Project?</div><div>A beginner leather project should excite the new crafter and inspire them to continue in the craft. Some projects may require larger leather pieces, but most can use scrap. Any beginner...</div><div>Beginner Leather Projects - Creativity</div></div><div><div>What are leather crafts?</div><div>Leather crafts are a fantastic way for handmade enthusiasts to get creative. From crafting leather wallets and keychains to making fashionable leather bags and phone cases, there's something for everyone who loves to...</div><div>25 Easy Leather Crafts and Projects</div></div><div><div>Why all crafters</div><div>Make it universal the bi-picky, practical</div><div>Beginner</div></div></div><div><div>Explore Leathercraft Projects</div><div><div>Leather Work Projects</div><div>Cool Leather Projects</div><div>Easy Leather Projects</div><div>Leather DIY Projects</div><div>Leathercraft Tools</div><div>Leatherworking Projects</div><div>Leathercraft Patterns</div><div>Small Leather Projects</div><div>Leather Tooling Projects</div></div><div>See more</div></div></div></div>	<div>Internet aman.</div>

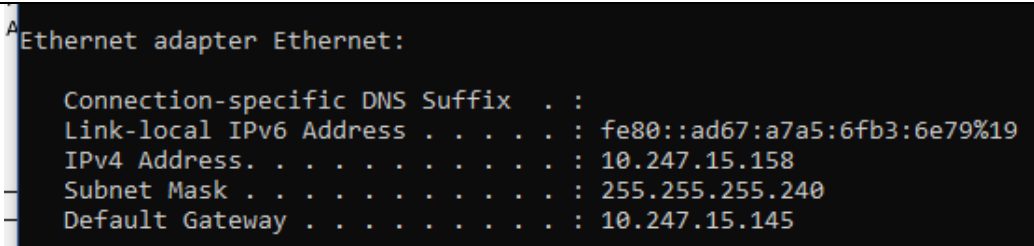
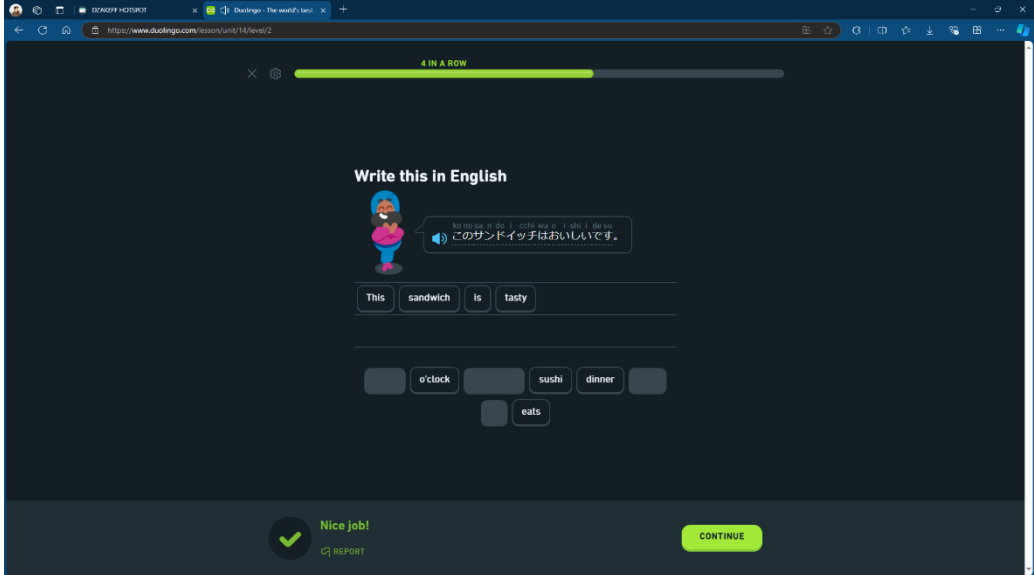
8.	Speedtest User Manajer		Bila hanya terdapat satu user pada suatu user profiles saja, paket dapat dikirim sampai max limit. Jika terdapat dua user akan terbagi rata sampai jumlah user seterusnya.																
9.	Login Hotspot Staf	 <table><tr><th colspan="2">Status penggunaan internet di layanan Dzakeff Hotspot</th></tr><tr><td>Username</td><td>john</td></tr><tr><td>IP Address</td><td>10.247.15.111</td></tr><tr><td>MAC Address</td><td>00:BB:60:0C:A0:85</td></tr><tr><td>Connected</td><td>8s</td></tr><tr><td>Download / Upload</td><td>35.2 KiB / 27.4 KiB</td></tr><tr><td>Sisa Kuota</td><td>Unlimited</td></tr><tr><td>Status refresh</td><td>1m</td></tr></table>	Status penggunaan internet di layanan Dzakeff Hotspot		Username	john	IP Address	10.247.15.111	MAC Address	00:BB:60:0C:A0:85	Connected	8s	Download / Upload	35.2 KiB / 27.4 KiB	Sisa Kuota	Unlimited	Status refresh	1m	Berhasil menggunakan user staff.
Status penggunaan internet di layanan Dzakeff Hotspot																			
Username	john																		
IP Address	10.247.15.111																		
MAC Address	00:BB:60:0C:A0:85																		
Connected	8s																		
Download / Upload	35.2 KiB / 27.4 KiB																		
Sisa Kuota	Unlimited																		
Status refresh	1m																		

10.	Browsing User Staf		Internet aman.
11.	Speedtest User Staf		<p>Bila hanya terdapat satu user pada suatu user profiles saja, paket dapat dikirim sampai max limit. Jika terdapat dua user akan terbagi rata sampai jumlah user seterusnya.</p>

12.	Ping ke IP Client Marketing Room	<pre> C:\Users\user&gt;ping 10.247.15.161  Pinging 10.247.15.161 with 32 bytes of data: Reply from 10.247.15.161: bytes=32 time=259ms TTL=64 Reply from 10.247.15.161: bytes=32 time=1ms TTL=64 Reply from 10.247.15.161: bytes=32 time=77ms TTL=64 Reply from 10.247.15.161: bytes=32 time=69ms TTL=64  Ping statistics for 10.247.15.161:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 1ms, Maximum = 259ms, Average = 101ms </pre>	Ping telah berhasil.
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No	Pengecekan	Hasil/Dokumentasi	Keterangan
Uji Coba Client HRD Room			
1.	IP Address Client HRD Room	<pre> Ethernet adapter Ethernet:      Connection-specific DNS Suffix  . :      Link-local IPv6 Address . . . . . : fe80::ad67:a7a5:6fb3:6e79%19     IPv4 Address. . . . . : 10.247.15.158     Subnet Mask . . . . . : 255.255.255.240     Default Gateway . . . . . : 10.247.15.145 </pre>	DHCP Server VLAN berhasil.

No	Pengecekan	Hasil/Dokumentasi	Keterangan
2.	Browsing Internet		Internet aman.
3.	Ping ke IP Client Public WiFi Area	 <pre> C:\Users\user&gt;ping 10.247.15.1  Pinging 10.247.15.1 with 32 bytes of data: Reply from 10.247.15.1: bytes=32 time=2ms TTL=64 Reply from 10.247.15.1: bytes=32 time&lt;1ms TTL=64 Reply from 10.247.15.1: bytes=32 time&lt;1ms TTL=64 Reply from 10.247.15.1: bytes=32 time&lt;1ms TTL=64  Ping statistics for 10.247.15.1:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 0ms, Maximum = 2ms, Average = 0ms </pre>	Ping telah berhasil.

No	Pengecekan	Hasil/Dokumentasi	Keterangan
Uji Coba Client NOC Room			
1.	IP Address Client NOC Room	 <pre> Ethernet adapter Ethernet:  Connection-specific DNS Suffix  . :  Link-local IPv6 Address . . . . . : fe80::ad67:a7a5:6fb3:6e79%19 IPv4 Address. . . . . : 10.247.15.158 Subnet Mask . . . . . : 255.255.255.240 Default Gateway . . . . . : 10.247.15.145 </pre>	DHCP Server ether3 berhasil.
2.	Browsing Internet		Internet aman.

No	Pengecekan	Hasil/Dokumentasi	Keterangan
3.	Ping ke IP Client Marketing Room	<pre> C:\Users\user&gt;ping 10.247.15.161  Pinging 10.247.15.161 with 32 bytes of data: Reply from 10.247.15.161: bytes=32 time&lt;1ms TTL=64 Reply from 10.247.15.161: bytes=32 time=1ms TTL=64 Reply from 10.247.15.161: bytes=32 time=1ms TTL=64 Reply from 10.247.15.161: bytes=32 time&lt;1ms TTL=64  Ping statistics for 10.247.15.161:     Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),     Approximate round trip times in milli-seconds:         Minimum = 0ms, Maximum = 1ms, Average = 0ms </pre>	Ping telah berhasil.

No	Pengecekan	Hasil/Dokumentasi	Keterangan
<b>Uji Coba Blok Akses</b>			
1.	Log akses blok port 80 dari HRD	<pre> 650 Oct/10/2024 15:00:56 memory firewall, info blokhttp_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 651 Oct/10/2024 15:00:57 memory firewall, info blokhttp_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 652 Oct/10/2024 15:00:57 memory firewall, info blokhttp_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 653 Oct/10/2024 15:00:58 memory firewall, info blokhttp_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 654 Oct/10/2024 15:00:59 memory firewall, info blokhttp_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 655 Oct/10/2024 15:01:00 memory firewall, info blokhttp_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... </pre>	Firewall filter telah berhasil.
2.	Log akses blok port 22 dari HRD Marketing dan Public Wifi	<pre> 378 Oct/10/2024 12:11:49 memory hotspot, account, info admin (10.247.15.111): logged in 379 Oct/10/2024 12:12:47 memory firewall, info blokssh_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85, ... 380 Oct/10/2024 12:12:48 memory firewall, info blokssh_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85, ... 381 Oct/10/2024 12:12:50 memory firewall, info blokssh_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85, ... 382 Oct/10/2024 12:12:54 memory firewall, info blokssh_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85, ... 383 Oct/10/2024 12:13:02 memory firewall, info blokssh_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85, ... 676 Oct/10/2024 15:05:20 memory firewall, info blokssh_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 677 Oct/10/2024 15:05:21 memory firewall, info blokssh_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 678 Oct/10/2024 15:05:23 memory firewall, info blokssh_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 679 Oct/10/2024 15:05:27 memory firewall, info blokssh_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 680 Oct/10/2024 15:05:35 memory firewall, info blokssh_input: in:HRD Room out:(unknown 0), src-mac e4:b9:7a:39:5... 683 Oct/10/2024 15:06:20 memory system, info, account user uzaki logged in from 10.247.15.173 via winbox 684 Oct/10/2024 15:06:43 memory firewall, info blokssh_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7a:... 685 Oct/10/2024 15:06:44 memory firewall, info blokssh_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7a:... 686 Oct/10/2024 15:06:46 memory firewall, info blokssh_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7a:... 687 Oct/10/2024 15:06:50 memory firewall, info blokssh_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7a:... 688 Oct/10/2024 15:06:58 memory firewall, info blokssh_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7a:... 689 items </pre>	Firewall filter telah berhasil.

No	Pengecekan	Hasil/Dokumentasi					Keterangan		
3.	Log akses blok port 23 dari HRD Marketing dan Public Wifi	384	Oct/10/2024 12:13:59	memory	firewall, info	bloktelnet_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85...	Firewall filter telah berhasil.		
		385	Oct/10/2024 12:14:03	memory	firewall, info	bloktelnet_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85...			
		386	Oct/10/2024 12:14:11	memory	firewall, info	bloktelnet_input: in:wlan1 out:(unknown 0), src-mac 00:bb:60:0c:a0:85...			
		689	Oct/10/2024 15:07:51	memory	firewall, info	bloktelnet_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7...			
		690	Oct/10/2024 15:07:52	memory	firewall, info	bloktelnet_input: in:Marketing Room out:(unknown 0), src-mac e4:b9:7...			
		697	Oct/10/2024 15:08:50	memory	system, info, success	user:azurion logged in from 10.27.1.10:100 via telnet			
		698	Oct/10/2024 15:08:50	memory	firewall, info	bloktelnet_input: in:HRD Room out:(unknown 0), src-			
		699	Oct/10/2024 15:08:51	memory	firewall, info	bloktelnet_input: in:HRD Room out:(unknown 0), src-			
		700	Oct/10/2024 15:08:53	memory	firewall, info	bloktelnet_input: in:HRD Room out:(unknown 0), src-			

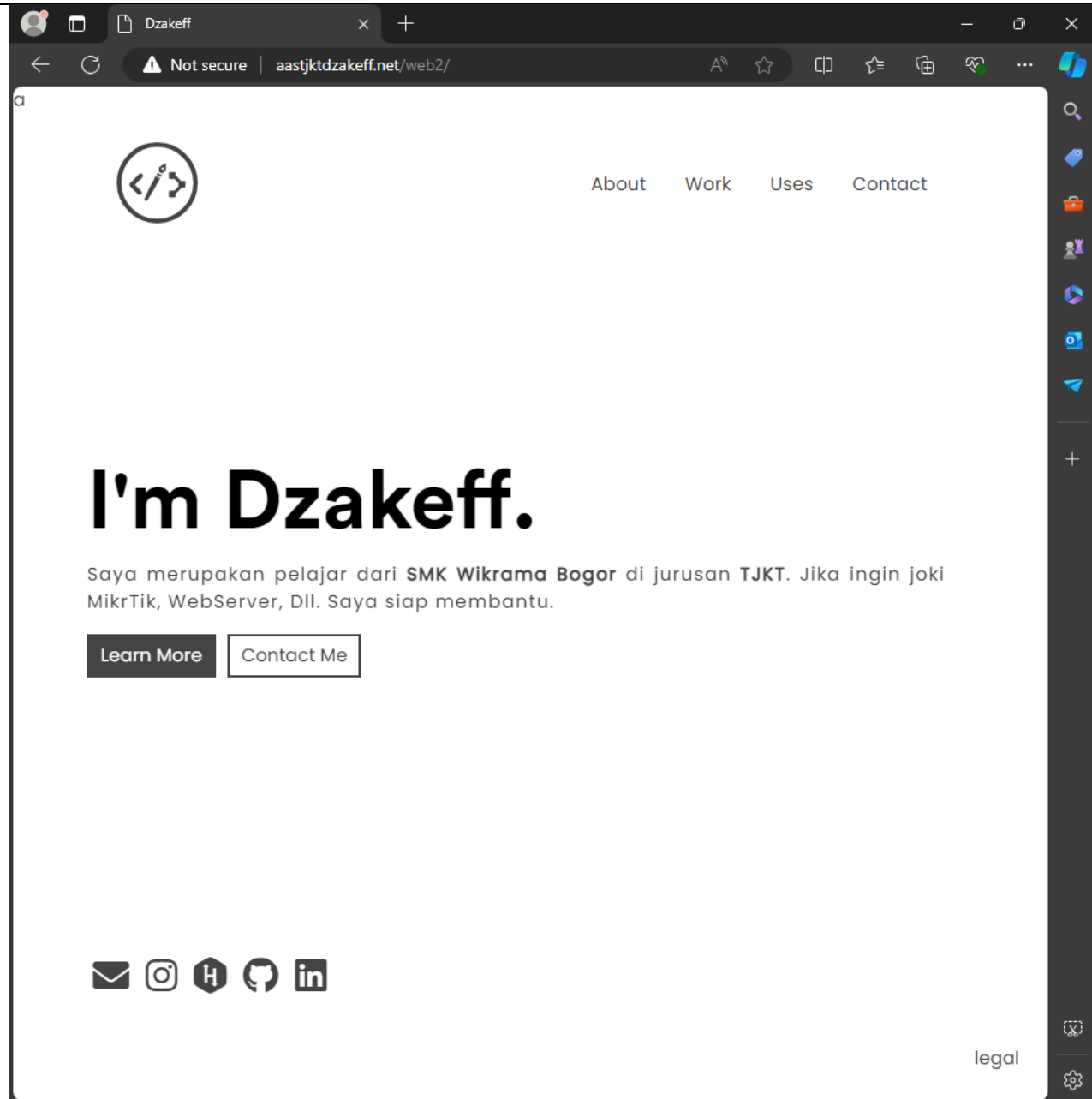


## Hasil Ujicoba Server

No	Ujicoba	Screenshot Hasil Ujicoba
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1

Akses website :  
aastjktnama.net/web1



2


Akses website :  
aastjktnama.net/web2

The screenshot shows a web browser window with the address bar displaying 'aastjkt Dzakeff' and 'aastjkt Dzakeff.net/web3/'. The page has a dark header with the title 'Project Title' and navigation links: 'Overview', 'Widgets', 'Embedding', 'Dropdown', and 'GitHub'. Below the header is a large image of a green field with a small stream. Underneath the image is a blue section titled 'Profile' with the text: 'Saya Muhamad Dzakwan Ar Efendi yang sedang berpendidikan di SMK Wikrama Bogor di jurusan TJKT.' Below this is a large gray box containing the text '430 x 270'. To the right of the gray box is a list of links: 'Author 1, author1 (at) cs.cmu.edu', 'Author 2, author2 (at) cs.cmu.edu', 'Author 3, author3 (at) cs.cmu.edu', 'Laboratory', 'Institute', 'Organization', 'Street Address', and 'City, State, Country'. At the bottom of the page is a paragraph of placeholder text: 'Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam'.

3

Akses website :  
aastjktnama.net/web3

Project Title Overview Widgets Embedding Dropdown ▾ GitHub



### Profile

Saya Muhamad Dzakwan Ar Efendi yang sedang berpendidikan di SMK Wikrama Bogor di jurusan TJKT.

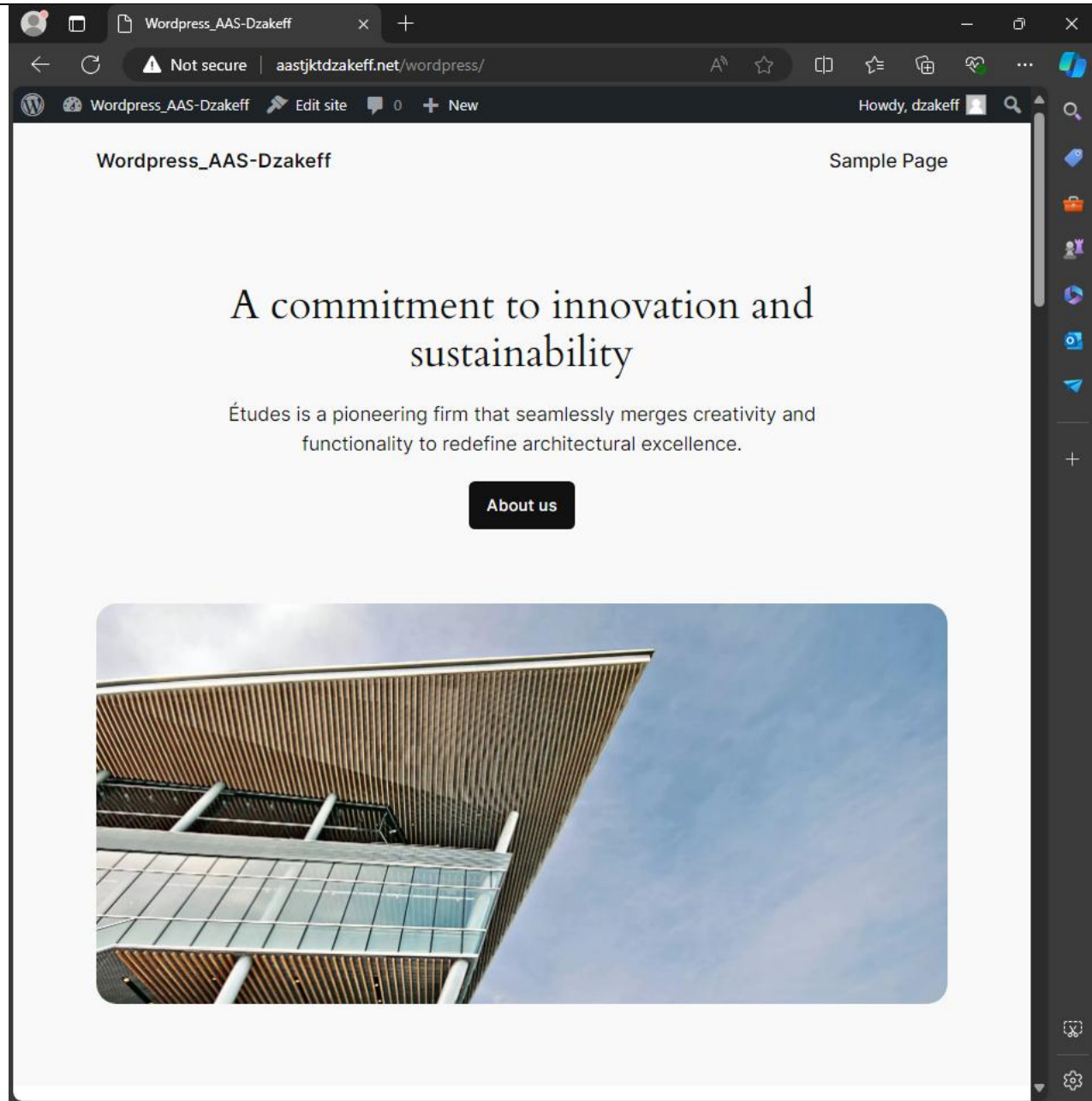
430 × 270

[Author 1, author1 \(at\) cs.cmu.edu](#)  
[Author 2, author2 \(at\) cs.cmu.edu](#)  
[Author 3, author3 \(at\) cs.cmu.edu](#)  
[Laboratory](#)  
[Institute](#)  
[Organization](#)  
[Street Address](#)  
[City, State, Country](#)

Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies nisi. Nam eget dui. Etiam rhoncus. Maecenas tempus, tellus eget condimentum rhoncus, sem quam

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Akses website :  
aastjktnama.net/wordpress





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Tampilkan hasil postingan portofolio / CV

**M. Dzakwan Ar Efendi**  
Teknik Jaringan Komputer dan Telekomunikasi

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@dzakeff  
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Dzakwan Efendi

**Tentang Saya**

Seorang pelajar di SMK Wikrama Bogor dengan jurusan TJKT (Teknik Jaringan Komputer dan Telekomunikasi) dengan ketertarikan yang kuat pada bidang sistem jaringan. Memiliki pengetahuan penggunaan OS (Operating System) dan ketelitian dalam troubleshooting. Mampu berkomunikasi serta bekerja sama tim dengan baik.

**Pengalaman Magang**

**Sebagai Technical Support di PT. Maxindo Mitra Solusi**  
Januari - Juni 2024

- Survei kebutuhan perangkat jaringan
- Instalasi perangkat jaringan
- Troubleshooting masalah jaringan
- Perawatan jaringan

**Pengalaman di Sekolah**

**Network Cabling, Perancangan dan Pengalaman Jaringan**  
Agustus - Desember 2023

- Crimping UTP (Unshielded Twisted Pair)
- Uji coba splicing fiber optic
- Instalasi jaringan kabel
- Membuat desain jaringan menggunakan Microsoft Visio

**ASJ (Administrasi Sistem Jaringan)**  
Oktober 2023 - Desember 2023

- Web server
- Mengoperasikan Linux
- Virtualisasi

**Sertifikasi**

**Cisco Networking Academy**  
Juli 2024  
**Networking Essentials**

**E-Learning K3 (Keselamatan dan Kesehatan kerja)**  
Februari 2023

