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DAFTAR RIWAYAT HIDUP

I. Biodata Mahasiswa

NIM	: 12240182
Nama Lengkap	: Bayu Waskitha Aji
Tempat dan Tanggal Lahir	: Rembang, 19 Desember 1990
Alamat Lengkap	: Kp. Sawah Poncol RT 04 RW 07 Kelurahan Bojonggede Kabupaten Bogor

II. Pendidikan

a. Formal

1. SDN 01 Randuagung, lulus tahun 2003
2. SMPN 02 Kaliori, lulus tahun 2006
3. SMA MTA Surakarta, lulus tahun 2009
4. Politeknik Telkom Bandung, Program Studi Teknik Komputer (2009–2012).

b. Non Formal

1. Pelatihan Microsoft Azure Fundamentals (AZ-900).
2. Pelatihan Alibaba Cloud Fundamentals.
3. Pelatihan Docker dan Containerization.
4. Pelatihan Kubernetes dan Cloud Native.

III. Riwayat Pengalaman Organisasi / Pekerjaan

1. Infrastructure Engineer pada PT Xquisite Analitika Indonesia.
2. Terlibat dalam proyek implementasi infrastruktur cloud menggunakan Microsoft Azure, Alibaba Cloud, dan AWS.
3. Berperan sebagai Project Manager pada beberapa proyek implementasi infrastruktur teknologi informasi.

LEMBAR BIMBINGAN SKRIPSI

	LEMBAR BIMBINGAN SKRIPSI
	UNIVERSITAS NUSA MANDIRI

NIM : 12240182
 Nama Lengkap : Bayu Waskitha Aji
 Dosen Pembimbing : Andry Maulana
 Judul Skripsi : Implementasi Reverse Proxy untuk Manajemen Akses Layanan Web pada Jaringan Berbasis Mikrotik PT. Xquisite Analitika Indonesia.

No	Tanggal Bimbingan	Pokok Bahasan	Paraf Dosen Pembimbing
1.	01 April 2026	Diskusi terkait judul skripsi dan rumusan masalah	
2.	08 April 2026	Diskusi terkait penguatan rumusan masalah	
3.	22 April 2026	Diskusi BAB 1 dan Referensi	
4.	06 Mei 2026	Diskusi BAB 2 dan Revisi BAB 1	
5.	20 Mei 2026	Diskusi BAB 2 dan Revisi BAB 2	
6.	27 Mei 2026	Diskusi BAB 2 dan Revisi BAB 3	
7.	09 Juni 2026	Diskusi BAB 2 dan Revisi BAB 4	
8.	25 Juni 2026	Pengecekan menyeluruh semua BAB dan Penulisan	

Catatan untuk Dosen Pembimbing.

Bimbingan Skripsi

- Dimulai pada tanggal : 01 April 2026
- Diakhiri pada tanggal : 25 Juni 2026
- Jumlah pertemuan bimbingan : 8

Disetujui oleh,
Dosen Pembimbing



Disahkan secara Digital
 Andry Maulana
 2026-07-30 15:27:38

ANDRY MAULANA

SURAT KETERANGAN RISET



PT Xquisite Analitika Indonesia

SURAT IZIN RISET

Nomor: 128/XAI/HR/IV/2026

Yang bertanda tangan di bawah ini:

Nama : Bapak Galih Permadi Bahar

Jabatan : Chief Executive Officer (CEO)

Perusahaan : PT Xquisite Analitika Indonesia

Alamat : Grha XQ 2, Jl. Karang Tengah Raya No.12A, Lb. Bulus, Kec. Cilandak, Kota Jakarta Selatan, Daerah Khusus Ibukota Jakarta 12440

Dengan ini memberikan izin kepada:

No	NIM	Nama	Program Studi	Jenjang	Handphone
1	12240182	Bayu Waskitha Aji	Informatika	S1	089525293679

Telah diberikan izin dan telah melaksanakan kegiatan riset di lingkungan PT Xquisite Analitika Indonesia dalam rangka penyusunan Tugas Akhir/Skripsi dengan judul:

"Implementasi Reverse Proxy untuk Manajemen Akses Layanan Web pada Jaringan Berbasis Mikrotik PT. XQUISITE ANALITIKA INDONESIA"

Adapun kegiatan riset yang telah dilakukan mencakup pengumpulan data, observasi, serta wawancara yang relevan dengan kebutuhan penelitian, dengan tetap mematuhi seluruh peraturan dan kebijakan yang berlaku di lingkungan perusahaan.

Demikian surat keterangan ini dibuat dengan sebenarnya untuk dapat dipergunakan sebagaimana mestinya.

Jakarta, 27 April 2025

PT Xquisite Analitika Indonesia

Chief Executive Officer (CEO)


Xquisite AI
Galih Permadi Bahar

LAMPIRAN

Lampiran A. Bukti Hasil Pengecekan Plagiarisme

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Lampiran B. Bukti Submit/Publish Artikel Ilmiah

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Lampiran C. Instalasi Docker Container

Docker dan Docker Compose Instalasi

```
# Add Docker's official GPG key:

sudo apt update

sudo apt install ca-certificates curl

sudo install -m 0755 -d /etc/apt/keyrings

sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o
/etc/apt/keyrings/docker.asc

sudo chmod a+r /etc/apt/keyrings/docker.asc


# Add the repository to Apt sources:

sudo tee /etc/apt/sources.list.d/docker.sources <<EOF

Types: deb

URIs: https://download.docker.com/linux/ubuntu

Suites: $(. /etc/os-release dandan echo "${UBUNTU_CODENAME:-
$VERSION_CODENAME}")

Components: stable

Architectures: $(dpkg --print-architecture)

Signed-By: /etc/apt/keyrings/docker.asc

EOF

#sudo apt update

#sudo apt install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-
compose-plugin
```

Konfigurasi WebApp Container

```
version: '3.8'

services:

  webapp1:

    image: nginx:alpine

    container_name: webapp1

    ports:

      - "81:80"

    restart: unless-stopped

    volumes:

      - ./index.html:/usr/share/nginx/html/index.html:ro
```

```
<!DOCTYPE html>

<html>

<head>

<title>Web App 1</title>

</head>

<body>

<h1>WEB APP 1</h1>

<p>PT. Xquisite Analitika Indonesia</p>

</body>

</html>
```

Running Docker Container

```
docker compose -f docker-compose-web1.yml up -d  
docker compose -f docker-compose-web2.yml up -d  
docker compose -f docker-compose-web3.yml up -d  
docker compose -f docker-compose-web4.yml up -d  
docker compose -f docker-compose-web5.yml up -d
```

Konfigurasi Docker Compose Nginx Proxy Manager

```
services:  
  
  app:  
  
    image: 'docker.io/jc21/nginx-proxy-manager:latest'  
  
    restart: unless-stopped  
  
    ports:  
  
      - '80:80'  
  
      - '81:81'  
  
      - '443:443'  
  
    volumes:  
  
      - './data:/data'  
  
      - './letsencrypt:/etc/letsencrypt'
```

Lampiran D. Pengujian

Pengujian *Response Times* sebelum implementasi

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTo  
tal:%{time_total}\n" http://45.158.10.170:71  
  
DNS:0.000017  
  
Connect:0.021387  
  
TTFB:0.043116  
  
Total:0.043673  
  
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTo  
tal:%{time_total}\n" http://45.158.10.170:72  
  
DNS:0.000017  
  
Connect:0.031103  
  
TTFB:0.055795  
  
Total:0.055843  
  
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTo  
tal:%{time_total}\n" http://45.158.10.170:73  
  
DNS:0.000017  
  
Connect:0.064748  
  
TTFB:0.094063  
  
Total:0.094190
```

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:74
```

DNS:0.000016

Connect:0.022807

TTFB:0.048877

Total:0.049348

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:75
```

DNS:0.000017

Connect:0.029216

TTFB:0.052746

Total:0.052784

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:71
```

DNS:0.000016

Connect:0.022132

TTFB:0.055250

Total:0.055361

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:72
```

DNS:0.000017

Connect:0.020847

TTFB:0.042752

Total:0.043673

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:73

DNS:0.000018

Connect:0.022087

TTFB:0.050793

Total:0.050829

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:74

DNS:0.000017

Connect:0.022408

TTFB:0.048320

Total:0.049451

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:75

DNS:0.000017

Connect:0.021196

TTFB:0.046342

Total:0.046378

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:71
```

DNS:0.000017

Connect:0.021139

TTFB:0.044706

Total:0.045200

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:72
```

DNS:0.000018

Connect:0.024540

TTFB:0.047314

Total:0.048046

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:73
```

DNS:0.000018

Connect:0.023881

TTFB:0.079397

Total:0.079436

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:74
```

DNS:0.000018

```
Connect:0.039112

TTFB:0.074688

Total:0.074884

azureuser@bayudev:~$ curl -o /dev/null -s -w
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" http://45.158.10.170:75

DNS:0.000018

Connect:0.021218

TTFB:0.045231

Total:0.045837
```

Pengujian *Response Times* setelah implementasi

```
azureuser@bayudev:~$ curl -o /dev/null -s -w
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp1.devbee.xyz/

DNS:0.075630

Connect:0.076182

TTFB:0.148581

Total:0.148616

azureuser@bayudev:~$ curl -o /dev/null -s -w
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp2.devbee.xyz/

DNS:0.034729

Connect:0.035298
```

TTFB:0.109577

Total:0.109613

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp3.devbee.xyz/

DNS:0.080365

Connect:0.085398

TTFB:0.157159

Total:0.157191

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp4.devbee.xyz/

DNS:0.082676

Connect:0.083334

TTFB:0.171448

Total:0.171480

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp5.devbee.xyz/

DNS:0.157588

Connect:0.158151

TTFB:0.260388

Total:0.260438

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp1.devbee.xyz/
```

DNS:0.029158

Connect:0.033316

TTFB:0.109650

Total:0.109704

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp2.devbee.xyz/
```

DNS:0.028276

Connect:0.029030

TTFB:0.106769

Total:0.106819

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp3.devbee.xyz/
```

DNS:0.003362

Connect:0.007435

TTFB:0.082526

Total:0.082554

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp4.devbee.xyz/
```

DNS:0.002650

Connect:0.003356

TTFB:0.079454

Total:0.079501

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp5.devbee.xyz/

DNS:0.030229

Connect:0.030916

TTFB:0.114153

Total:0.114184

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp1.devbee.xyz/

DNS:0.031268

Connect:0.031889

TTFB:0.106578

Total:0.106611

azureuser@bayudev:~\$ curl -o /dev/null -s -w

"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTotal:%{time_total}\n" https://webapp2.devbee.xyz/

DNS:0.002947

Connect:0.003679

TTFB:0.081182

Total:0.081219

```
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTo  
tal:%{time_total}\n" https://webapp3.devbee.xyz/  
  
DNS:0.002720  
  
Connect:0.003294  
  
TTFB:0.076354  
  
Total:0.076383  
  
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTo  
tal:%{time_total}\n" https://webapp4.devbee.xyz/  
  
DNS:0.002830  
  
Connect:0.003584  
  
TTFB:0.076329  
  
Total:0.076360  
  
azureuser@bayudev:~$ curl -o /dev/null -s -w  
"DNS:%{time_namelookup}\nConnect:%{time_connect}\nTTFB:%{time_starttransfer}\nTo  
tal:%{time_total}\n" https://webapp5.devbee.xyz/  
  
DNS:0.028728  
  
Connect:0.029328  
  
TTFB:0.107497  
  
Total:0.107567
```