Bagus Setiawan

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PROFESSIONAL EXPERIENCES

PT. Solo Jala Buana (SOLONET)   Surakarta, Jawa Tengah, Indonesia

- **BTS Pointing**

    - Collaborated with technicians to perform pointing on a BTS in Boyolali

    - Used safety equipment for protection while climbing.

    - Climbed a Triangle BTS to carry out the pointing on the equipment.

- **kominfo Karanganyar**

    - Worked with mentors and the team to assist in a project at the Karanganyar Regent's Office.

    - Helped assemble a new server rack for transferring servers from the old rack.

    - Organized and tidied up cables that were not properly arranged and moved necessary and unnecessary items.

- **Server Project**

    - Installed web server, DNS, mail server, and VoIP (Voice Over Internet Protocol Server).
    - Collaborated with peers to ensure smooth configuration and installation.

SMK Bintang Nusantara   Tangerang, Indonesia
Trainer and Assistant Trainer

- **MTCNA (Mikrotik Certified Network Associate)**

    - Delivered training on networking fundamentals and Mikrotik device configurations, covering hands-on practice with mini-routers.

    - Lab Activities: Conducts practical labs on several materials.

- **MTCRE (Mikrotik Certified Routing Engineer)**

    - Teaches routing concepts and advanced techniques.

    - Lab Activities: Conducts practical labs on several materials.

- **CCNA (Cisco Certified Network Associate)**

    - Provides instruction on networking basics, IP addressing, and basic Cisco device configuration.

- **Preparation and Training**

    - Participate in preparatory training sessions to deepen knowledge of the material and teaching strategies before the event.

SKILLS

NETWORK ENGINEER

Cisco
- Knowledgeable in configuring and troubleshooting Cisco network devices.
- Knowledgeable in Routing Switching, Vlan, NAT, DHCP, Access-List.

MikroTik
- Implemented IP addressing, VLAN mapping, and VPN configurations.
- Knowledgeable in Routing, Switching, Wireless, QoS, DHCP, DNS, Hotspot, NAT.

CLOUD ENGINEER

AWS Web Services
- Experienced in launching and managing EC2 instances using AWS.
- Familiar with accessing and configuring Ubuntu instances via Windows PowerShell.
- Knowledgeable in setting up and managing AWS RDS databases, specifically using MariaDB.

Linux Administration
- Proficient in using the Ubuntu operating system, including command-line operations for software installation and updates.
- Experienced in configuring and managing system services using systemd.
- Built server applications with functionalities including web server, DNS, and mail server setup.

AWS Load Balancer Configuration
- Created target groups and configured Application Load Balancers to distribute traffic across multiple instances.

Containerization with Docker
- Skilled in writing Dockerfiles to containerize Python applications, specifying base images and configuring the environment.

PROJECTS

AWS Load Balancer Implementation

Skill Used: AWS EC2, Load Balancing, Flask, Python, Troubleshooting

- Set up a load-balanced environment on AWS using EC2 instances running a Flask-based web service.
- Created a target group and an application load balancer to distribute traffic between instances.
- Resolved issues such as unhealthy target status and "502 Bad Gateway" errors, ensuring proper instance responses.
- Tested the setup by shutting down one instance to verify traffic failover to the other.

AWS WEB SERVICE DEPLOYMENT

Skills Used: AWS EC2, Python, Flask, NGINX, RDS

- Deployed a Python Flask web service on an AWS EC2 instance.
- Set up a virtual environment and configured Gunicorn as the WSGI server.
- Used NGINX as a reverse proxy and established a connection to an RDS instance using MariaDB for database management.
- Configured systemd to manage the Flask service, ensuring it runs as a background service.

FASTAPI WEB SERVICE WITH DOCKER

Skills Used: FastAPI, Docker, API Development, Dependency Management

- Created a web service using FastAPI and containerized it with Docker.
- Developed endpoints for basic functionality, including a welcome message and item request handling.
- Wrote a Dockerfile to set up the environment, install dependencies, and run the application using Uvicorn.
- Demonstrated efficient API development and containerized deployment for seamless scalability and management.

INTEGRATED NETWORK DESIGN FOR THREE FLOORS

Skills Used: Network Design, Subnetting, Routing and Switching

- Designed an integrated network for three floors, focusing on IP addressing and device selection.
- Implemented OSPF for dynamic routing to enhance network efficiency.
- Utilized Cisco Packet Tracer for simulation, ensuring connectivity and communication between floors.

WEB LAKONIN

Skills Used: HTML, CSS, JavaScript

- Developed LakonIn, a platform to help foreign speakers learn Bahasa Indonesia and explore Indonesian culture.
- Created interactive courses, quizzes, and short films to enhance language skills and cultural understanding.
- Facilitated community connections among learners for an engaging and immersive experience.

PETSTAY

Skills Used: UI/UX Design

- Developed PetStay, a platform that connects pet owners with service providers such as pet shops and veterinarians for easy access to various services and products.
- Designed user-friendly features including online reservations for pet hotels, pet consultations, and home delivery for pet supplies.
- Implemented grooming and vaccination services at home to enhance pet care convenience.

EDUCATIONS

BINUS UNIVERSITY   **Jakarta, Indonesia**
Undergraduate Computer Science Major   **2022 - 2026**

SMK IDN BOGOR   **Bogor, Indonesia**
Network Engineering Major   **2019 - 2021**

CERTIFICATIONS

ACTIVE
- Ubiquiti Broadband Wireless Admin (UBWA), 2022-2024
- D-Link Certified Network Design Associate (DCNA), 2023-2025

INACTIVE
- MikroTik Certified Network Associate (MTCNA). 2020-2023
- MikroTik Certified Routing Engineer (MTCRE), 2020-2023
- MikroTik Certified Traffic Control Engineer (MTCTCE), 2021-2024
- MikroTik Certified Inter-Networking Engineer (MTCINE), 2021-2024