Organizing Partner:

BLOCK71 INDONESIA
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INNOVATION FACTORY

Palembang Digital

aws

Speaker
Dwi Fahni Denni
Community Builder & DevOps Lead ZebraX

Moderator
Joneten Saputra
Chairman of Palembang Digital Community

Building App Using Amazon Lightsail

Friday, 11 March 2022 | 19.00-19.45 WIB

Register at:

bit.ly/AWSPatal_1

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Speaker

Dwi Fahni Denni

Community Builder & DevOps Lead ZebraX

https://www.linkedin.com/in/dfdenni

https://devopscorner.id

About Speaker

Coffee Addict

- **Carrier Path**
  - Software Engineer (2009-2015)
  - System Administrator (2015-2017)
  - DevOps Engineer (2017 - now)
  - DevOps Engineer Lead @ ZebraX (2021 - now)
  - AWS Community Builder, Container Categories (2021)
- **Education**
  - Electronics Engineer
    Institut Teknologi Nasional (ITENAS), Bandung
- **Hobby**
  - Gaming (Minecraft & Dota 2)
  - Sport (Archery)

ZEBRAX

ABOUT US

ZebraX is a **digital transformation company** that combines world class digital technology expertise with in-field experience and local know how. It is an industrial tech company established by Indika Energy, Indonesia's leading integrated energy company, with robust partnership network in digital connectivity, automation, and deep learning analytics.

OUR MISSION

By **bridging the gap between data and business impact,** ZebraX aims to help clients effectively harness digital technology to **bring their operations to the next level.**

Our Key Capabilities

Digital core capabilities to provide the best result in enabling Industry 4.0 journey

Data Science and Industrial IoT

Delivering enterprise-scale machine learning and advanced analytics applications and enabling automated data capture using specifically designed industrial grade IoT devices.

Digital Strategy and Business Consulting

Enabling Industry 4.0 by identifying business value through value-at-stake analysis, digital implementation road-mapping, and mobilizing suitable IoT strategy.

Product & Technology Development

Building superior digital products by top-tier tech architect, developers, and UI/UX designers with both vast and deep knowledge in newest technology platforms.

ZEBRA

OUR SOLUTIONS Advanced Analytics

Advanced Analytics Services

DATA ACQUISITION & PROCESSING

- Inspection data
- Legacy sensors (PLC, DCS)
- IoT sensors
- Maintenance data

ANALYTICS & MACHINE LEARNING

- Modelling
- Historical data analysis
- Domain expert

VISUALIZATION & DECISION MAKING

- Predictions & simulations
- Data visualization
- Real-time data update

"Deliver data-driven, intelligent insight for performance optimization"

ENABLING INDUSTRY 4.0 FOR YOUR BUSINESS

ZEBRA

"Together, we can enable Industry 4.0 for your business with zero risk. Let's discover on how ZebraX can make unintuitive connections for your business."

Get Connected with Us!

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Agenda

- Pengenalan Amazon Lightsails
- Amazon Lightsails & servis AWS lainnya
- Demo
- Tanya Jawab

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Bagian 1:

Pengenalan Amazon Lightsails

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Amazon Lightsails

- Diperkenalkan pada 30 November 2016 (referensi: Wiki)
- Virtual Cloud Server (Database, Load Balancer, Network, Monitoring, Alarms / Alert)
- Perancang Container (Container Orchestrator)
  - Mengotomatisasi duplikasi container dan mengirimkannya ke cloud (komputasi awan)
  - Memonitoring kerja aplikasi di dalam container
  - Melakukan otomatis restart apabila crash
  - Mempertahankan aplikasi tetap online
- Kemudahan berinteraksi dengan service AWS

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Amazon Lightsails

- Deploy container tanpa perlu menghadapi kompleksitas pengaturan di cloud
- Menyederhanakan banyak API dari AWS menjadi lebih mudah
- Memudahkan fokus Developer untuk coding aplikasi tanpa melewati proses kerumitan deployment
- Varian aplikasi yang dapat di Deploy
- Berbagai pilihan model skema pembayaran (billing) sesuai dengan kebutuhan
- Memudahkan perpindahan billing dari penggunaan service

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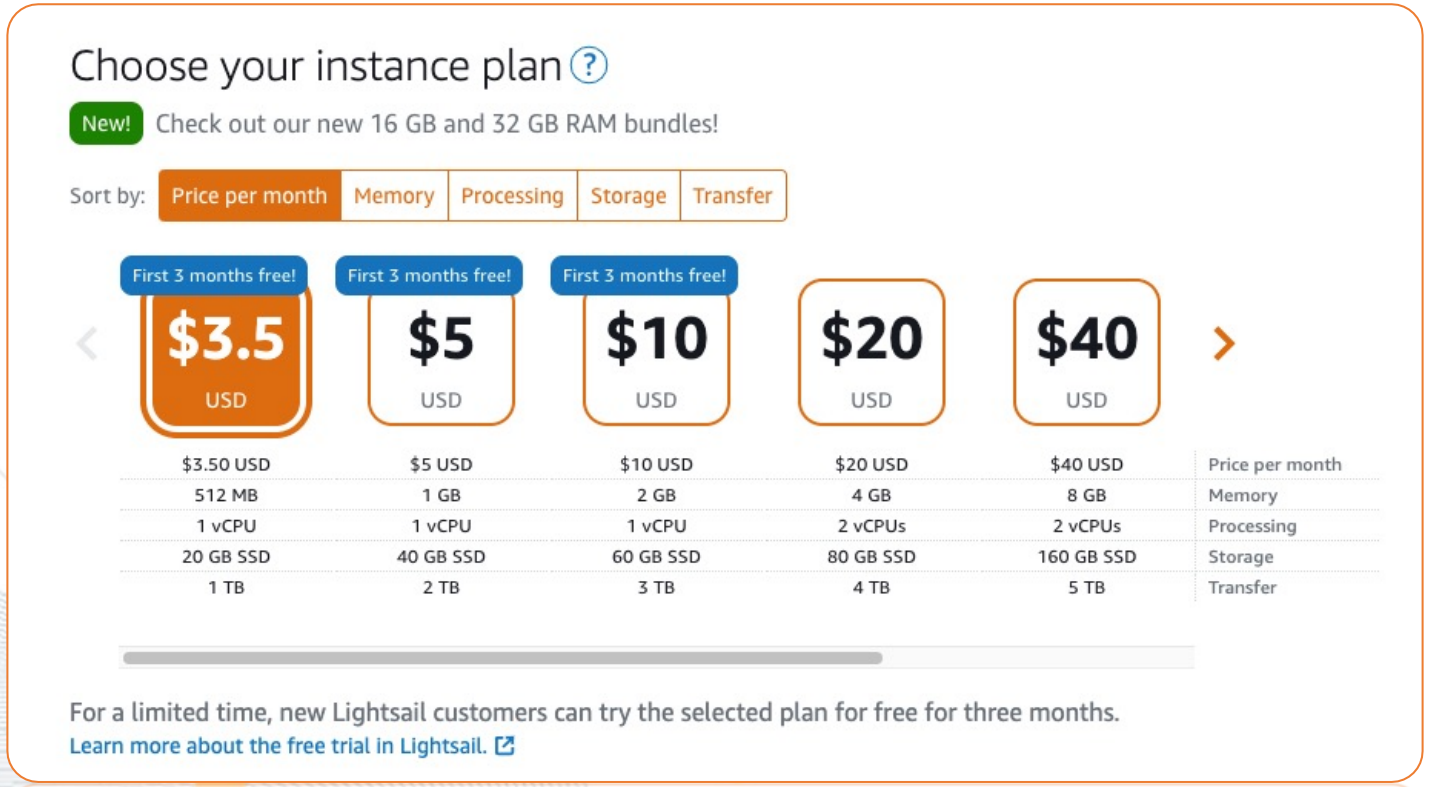
Amazon Lightsails



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Bagian 2:

Amazon Lightsails & Service Amazon Lainnya

Amazon Lightsails & Service Lainnya

Kategori	Lightsails	ECS (on EC2)	Lambda	EKS
Simplycity (1 = mudah, 5 kompleks)	1 - 2	3	4	5
Cost of Maintenance (1 = rendah, 5 tinggi)	1 Service Usages	3 ECS Cluster Overhead	1.5 Executions, Failure Handling	5 Control Plan, Network, Load Balancer
Unit of Scale	Services	Instances + Task	Function Invocation (Pemanggilan Fungsi)	Pods & Nodes
How does it scale ?	Services & Upgrade Plan	Autoscaling	Ondemand Driven by Event	K8S Cluster Autoscaler + Scheduler
Scalling Limits	Services	Limited by vCPU quota, 2000 tasks per cluster soft limit	• Account Level Concurency Quota (default 1000) • SQS event scaling limited to 60/minute	• Limited by vCPU • 500 pods soft limit (Fargate)

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Bagian 3:

Demo

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Bagian 4:

Tanya Jawab

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Referensi

Referensi	URL
Instalasi Wordpress	https://lightsail.aws.amazon.com/ls/docs/en_us/articles/getting-started-with-wordpress-and-lightsail
Seting Sertifikat SSL (HTTPS)	https://docs.bitnami.com/aws/apps/wordpress/administration/enable-https-ssl-apache/
Delete Database	https://lightsail.aws.amazon.com/ls/docs/en_us/articles/amazon-lightsail-deleting-your-database

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aws USER GROUP

Thank You

PT ZEBRA CROSS TEKNOLOGI

INDY Bintaro Office Park, Building A, 5th floor
Tangerang Selatan 15224

Contact us: inquiry@zebrax.id

www.zebrax.id

Organizing partner:

BLOCK71 COMMUNITY

INNOVATION FACTORY

Data are about understanding...

... to understand your opportunity is to understand your data

ZEBRA

Enabling Industry 4.0