

Teknologi Cloud Computing - DS4502

DEPLOYMENT WEBAPP UNTUK MENGANALISIS DATA DENGAN METODE STEPWISE REGRESSION

Speaker

Kelompok 6

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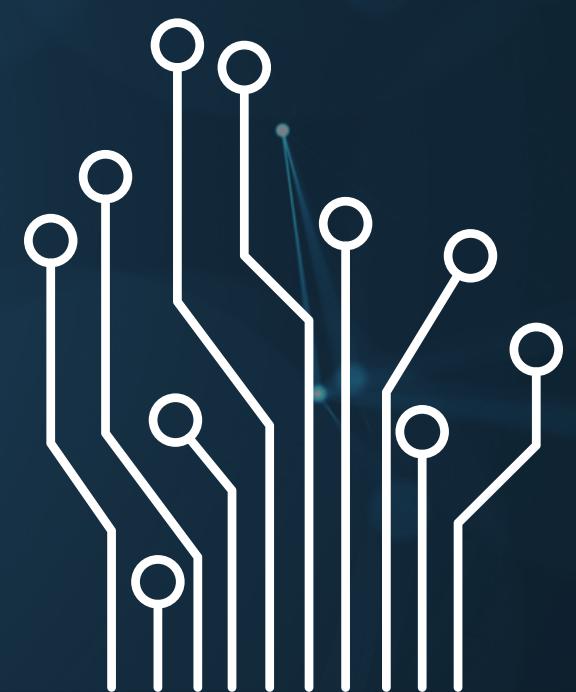
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In This Section You Can Explain
About What Topic You Will Reveal

Pendahuluan



Stepwise Regression adalah sebuah metode statistik yang digunakan dalam analisis regresi untuk membangun model yang memprediksi hubungan antara variabel dependen dan satu atau lebih variabel independen.

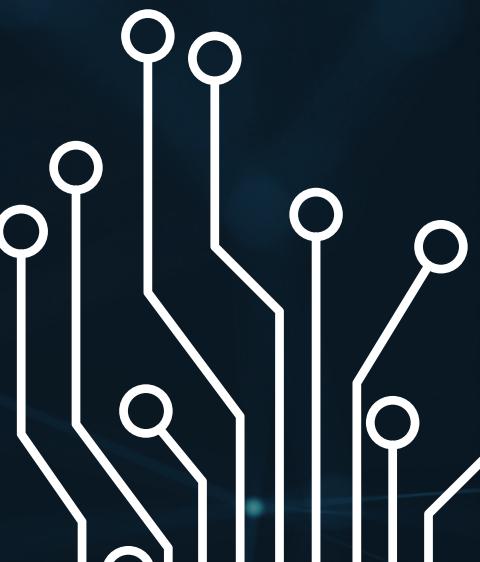


kami akan membahas langkah-langkah yang diperlukan untuk melakukan deployment sebuah Webapp menggunakan layanan Microsoft Azure, mulai dari persiapan awal hingga tahap peluncuran (release).

Proses Deployment

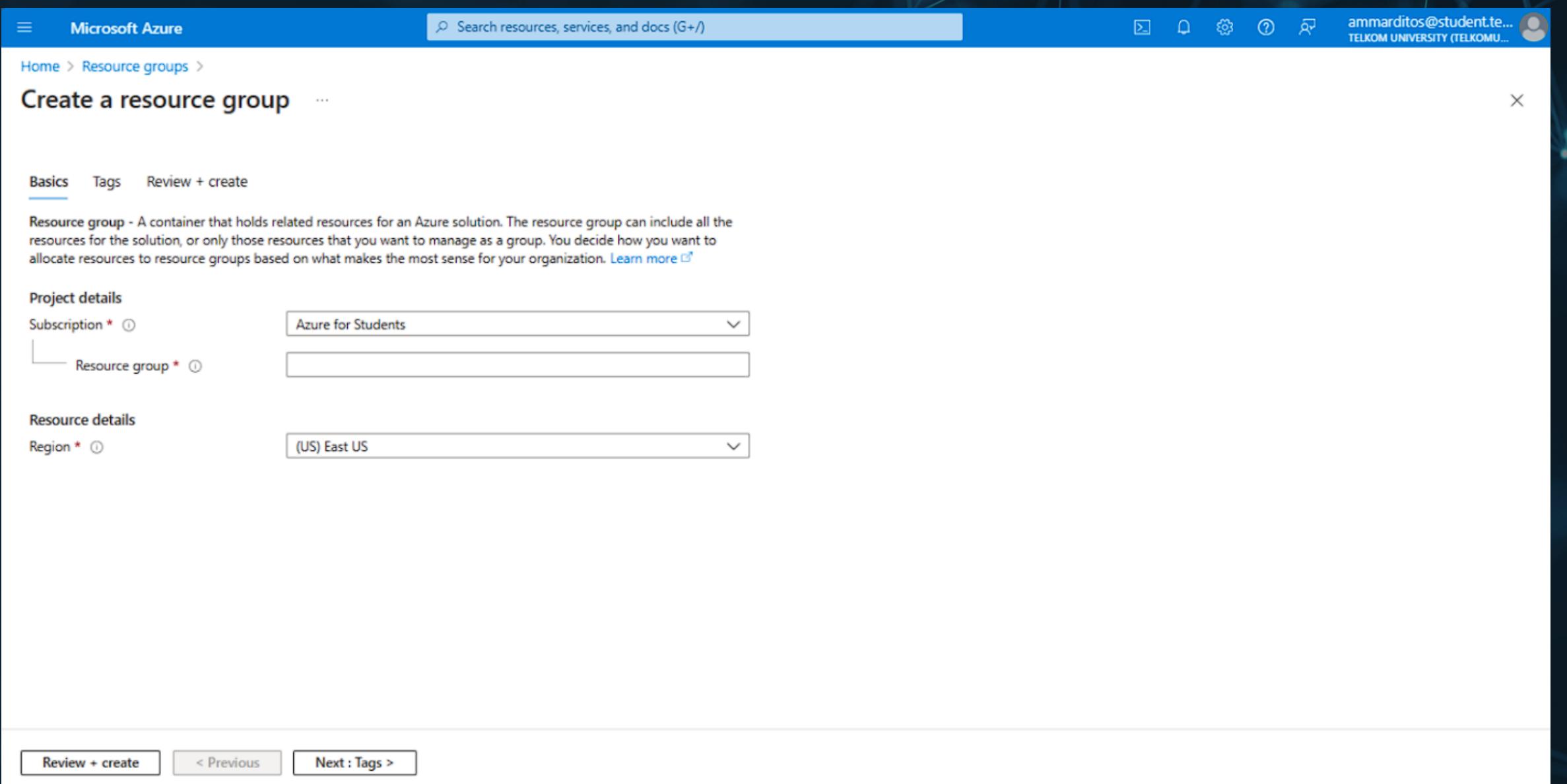


- Buatlah resource group pada Azure
- Buatlah Web App di App Services pada Azure
- Siapkan akun github yang sudah diisi dengan file program pada repository github
- Setting deployment menjadi continuous deployment karena kita akan menggunakan github
- Pilihlah repository github yang ingin di deploy, setelah itu pilih create
- Setelah selesai deployment, bukalah Web App yang telah dibuat untuk setting configuration
- Setelah setting configuration, selanjutnya setting environment variables
- Setelah setting environment, pilih deployment center untuk melihat hasil deployment
- Ketika deployment sudah berhasil, pilih overview untuk melihat link websites, perhatikan bagian Start - Swap - Restart untuk menjalankan websites
- Cek pada link tertera untuk melihat websites sudah berhasil dijalankan



Dokumentasi dan penjelasan

- Membuat resource group pada Azure



- Membuat webapp pada Azure di bagian layanan app service

The screenshot shows the 'Create Web App' wizard in the Microsoft Azure portal. The top navigation bar includes 'Microsoft Azure', a search bar, and user information ('ammarditos@student.te... TELKOM UNIVERSITY (TELKOMU...)'). The main title is 'Create Web App'. Below it, a sub-navigation bar has 'Basics' selected, followed by 'Database', 'Deployment', 'Networking', 'Monitoring', 'Tags', and 'Review + create'.

The 'Project Details' section contains fields for 'Subscription' (set to 'Azure for Students') and 'Resource Group' (set to 'TCC2', with a 'Create new' link). The 'Instance Details' section includes fields for 'Name' (set to 'stepwisereg'), 'Publish' (set to 'Code'), 'Runtime stack' (set to 'Python 3.12'), 'Operating System' (set to 'Linux'), and 'Region' (set to 'East Asia').

At the bottom, there are three buttons: 'Review + create' (highlighted in blue), '< Previous', and 'Next : Database >'.

- setting github repository, upload file program yang ingin di deploy

The screenshot shows a GitHub repository page for 'Stepwise-Regression-Analysis'. The repository is public and was forked from 'amrrs/streamlit_metric_dashboard'. The main branch is 'main', which is 29 commits ahead of the original branch. The repository contains several files: '.github/workflows', 'README.md', 'factbookv2.csv', 'pasdf.py', and 'requirements.txt'. The 'README' file describes the project as a 'Streamlit Stepwise Regression Analysis'. It mentions datasets ('factbook.csv') and provides instructions for running the application ('Update Streamlit to the latest version with'). The repository has 0 stars, 0 forks, and 0 releases. It also has 54 deployments, with one in production and 53 others.

Marvelouzs / Stepwise-Regression-Analysis

Type to search

Code Pull requests Actions Projects Wiki Security Insights Settings

Stepwise-Regression-Analysis Public

forked from amrrs/streamlit_metric_dashboard

Pin Watch Fork Star

main 1 Branch 0 Tags Go to file Add file Code

This branch is 29 commits ahead of amrrs/streamlit_metric_dashboard:main.

Contribute Sync fork

Marvelouzs Add or update the Azure App Service build and deployment workflow c... d21b4fb · 13 hours ago 42 Commits

.github/workflows Add or update the Azure App Service build and deployment ... 13 hours ago

README.md Update README.md 9 months ago

factbookv2.csv Add files via upload 9 months ago

pasdf.py Update pasdf.py 9 months ago

requirements.txt Update requirements.txt 9 months ago

README

Streamlit Stepwise Regression Analysis

DataSets : factbook.csv

How to Run?

Update Streamlit to the latest version with

About

Streamlit Stepwise Regression Analysis

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Deployments 54

Production

+ 53 deployments

Languages

- Setting continuous deployment

The screenshot shows the Microsoft Azure 'Create Web App' interface, specifically the 'Deployment' tab. The user is configuring continuous deployment settings.

Authentication settings: If you choose to disable basic authentication and enable continuous deployment, we will automatically create a user-assigned identity in your resource group, federate GitHub as an authorized client, and authenticate with OpenID Connect. [Learn more](#)

Basic authentication: Disable Enable

Enable GitHub Actions to continuously deploy your app: GitHub Actions is an automation framework that can build, test, and deploy your app whenever a new commit is made in your repository. If your code is in GitHub, choose your repository here and we will add a workflow file to automatically deploy your app to App Service. If your code is not in GitHub, go to the Deployment Center once the web app is created to set up your deployment. [Learn more](#)

GitHub Actions settings: If you choose to disable basic authentication and enable continuous deployment, we will automatically create a user-assigned identity in your resource group, federate GitHub as an authorized client, and authenticate with OpenID Connect.

Continuous deployment: Disable Enable

GitHub Actions details: Select your GitHub details, so Azure Web Apps can access your repository. You must have write access to your chosen repository to deploy with GitHub Actions.

GitHub account: Marvelouzs [Change account](#)

Buttons at the bottom:

- [Review + create](#)
- [< Previous](#)
- [Next : Networking >](#)

- Setting github repository

GitHub Actions details

Select your GitHub details, so Azure Web Apps can access your repository. You must have write access to your chosen repository to deploy with GitHub Actions.

GitHub account	Marvelouzs
	Change account
Organization *	Marvelouzs
Repository *	Stepwise-Regression-Analysis
Branch *	main

Workflow configuration

File with the GitHub Actions workflow configuration.

[Preview file](#)

[Review + create](#) [< Previous](#) [Next : Networking >](#)

Deployment

Basic authentication	Enabled
Continuous deployment	Enabled
GitHub account	Marvelouzs
Organization	Marvelouzs
Repository	Stepwise-Regression-Analysis
Branch	main

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

- Setting configuration pada web app

Microsoft Azure Search resources, services, and docs (G/) ammarditos@student.te... TELKOM UNIVERSITY (TELKOMU...) Profile

Home > stepwisesreg

stepwisesreg | Configuration

Web App

Search Refresh Save Discard Leave Feedback

Custom Error pages requires a premium App Service Plan.

Stack settings

Stack: Python
Major version: Python 3
Minor version: Python 3.8
Startup Command: `python -m streamlit run pasdf.py --server.port 8000 --server.address 0.0.0.0`

Provide an optional startup command that will be run as part of container startup. [Learn more](#)

Platform settings

SCM Basic Auth Publish... On off

FTP Basic Auth Publish... On off

Disable basic authentication for FTP and SCM access. [Learn more](#)

FTP state: FTPS only

FTP based deployment can be disabled or configured to accept FTP (plain text) or FTPS (secure) connections. [Learn more](#)

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview)

Deployment Deployment slots Deployment Center

Settings Environment variables Configuration Authentication Application Insights Identity Backups Custom domains

- setting environment

Microsoft Azure Search resources, services, and docs (G/) ammarditos@student.te... TELKOM UNIVERSITY (TELKOMU...)

Home > stepwisesreg

stepwisesreg | Environment variables

Web App

App settings Connection strings

Search Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview)

Deployment slots Deployment Center

Settings

Environment variables Configuration Authentication Application Insights Identity Backups Custom domains

Name*	Value	Deployment slot setting	Source	Delete
SCM_DO_BUILD_DURING_DEPLOYMENT	.	<input checked="" type="checkbox"/>	App Service	
Enter name			Enter value	

Apply Discard Send us your feedback

- Proses cek deployment yang dijalankan pada deployment center bagian logs

The screenshot shows the GitHub Actions logs for a workflow named "Add or update the Azure App Service build and deployment workflow config #1". The workflow has two jobs: "build" and "deploy". The "deploy" job is currently selected and expanded, showing its steps and logs.

Summary
Build and deploy Python app to Azure Web App - stepwisesreg
Add or update the Azure App Service build and deployment workflow config #1

Jobs
build
deploy

Run details
Usage
Workflow file

deploy
succeeded 13 hours ago in 13m 34s

Set up job

```
1 Current runner version: '2.314.1'  
2 ▶ Operating System  
6 ▶ Runner Image  
11 ▶ Runner Image Provisioner  
13 ▶ GITHUB_TOKEN Permissions  
17 Secret source: Actions  
18 Prepare workflow directory  
19 Prepare all required actions  
20 Getting action download info  
21 Download action repository 'actions/download-artifact@v3' (SHA:9bc31d5ccc31df68ecc42ccf4149144866c47d8a)  
22 Download action repository 'azure/webapps-deploy@v2' (SHA:4bca689e4c7129e55923ea9c45401b22dc6aa96f)  
23 Complete job name: deploy
```

Download artifact from build job

```
1 ▶ Run actions/download-artifact@v3  
4 Starting download for python-app  
5 Directory structure has been setup for the artifact  
6 Total number of files that will be downloaded: 1  
7 Artifact python-app was downloaded to /home/runners/work/Stepwise-Regression-Analysis/Stepwise-Regression-Analysis  
8 Artifact download has finished successfully
```

Unzip artifact for deployment

Deploy to Azure Web App

Logs are timestamped at 13m 25s.

- Pada bagian overview, klik Start untuk menjalankan websites yang telah di deploy

The screenshot shows the Microsoft Azure portal interface for managing a web application named "stepwisesreg".

Essentials:

- Resource group (move) : TCC2
- Status : Running
- Location (move) : East Asia
- Subscription (move) : Azure for Students
- Subscription ID : 57ba033d-7ede-4957-9095-0c0a06040a2c
- Default domain : stepwisesreg.azurewebsites.net
- App Service Plan : ASP-TCC2-ae5b (B1: 1)
- Operating System : Linux
- Health Check : Not Configured
- GitHub Project : <https://github.com/Marvelouz/Stepwise-Regression-Analysis>

Properties:

Web app	Deployment Center
Name : stepwisesreg	Deployment logs
Publishing model : Code	Last deployment
Runtime Stack : Python - 3.8	Deployment provider

Domains:

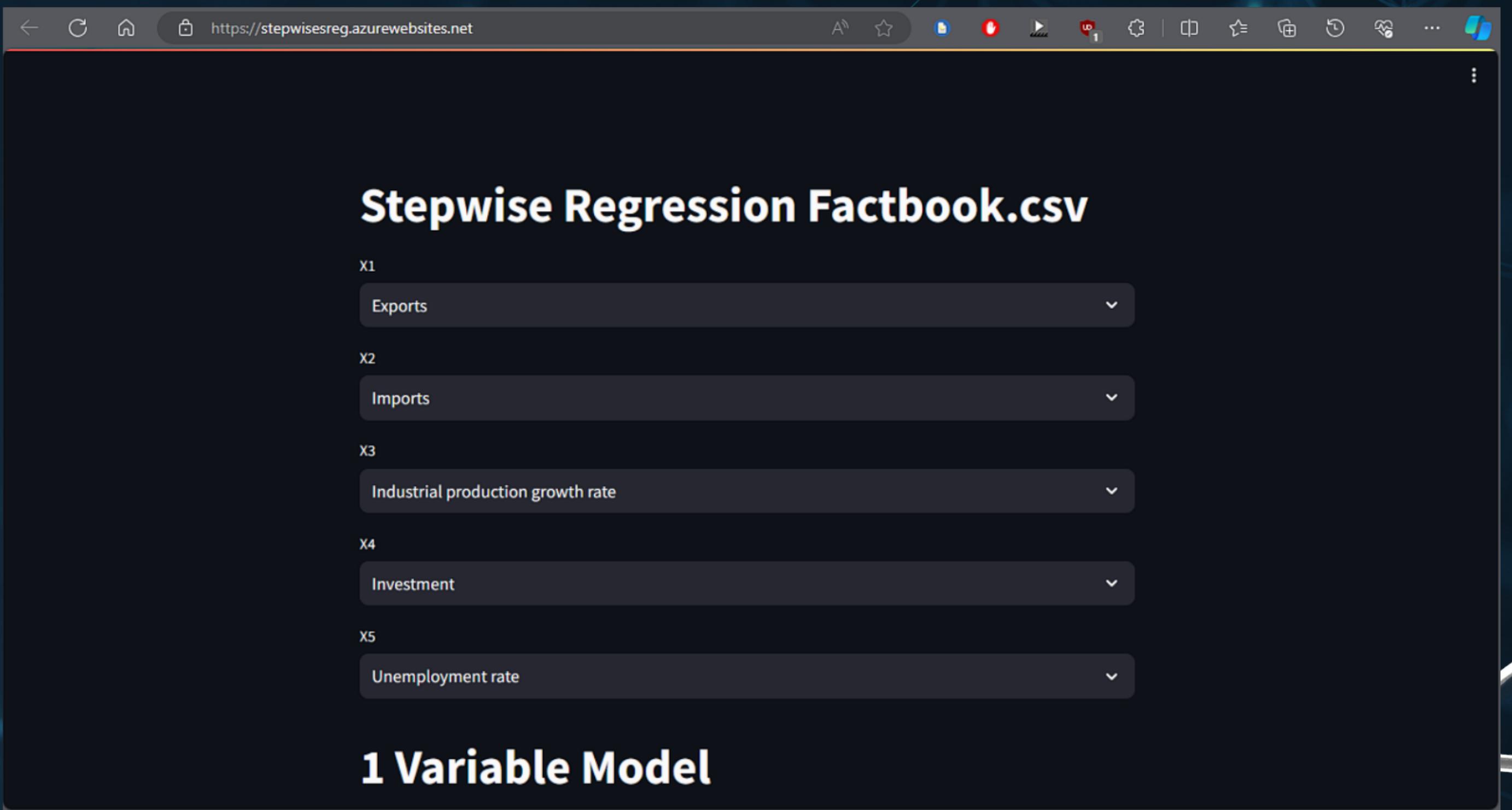
- Default domain : stepwisesreg.azurewebsites.net
- Custom domain : Add custom domain

Networking:

- Virtual IP address : 20.205.69.86

A success message is displayed: "Successfully started web app" and "Successfully started web app stepwisesreg".

- Cek pada link tertera pada bagian overview untuk melihat program sudah berhasil di deploy



The screenshot shows a web browser window with the URL <https://stepwisesreg.azurewebsites.net>. The page title is "Stepwise Regression Factbook.csv". Below the title, there are five dropdown menus labeled X1, X2, X3, X4, and X5. The dropdown for X1 contains "Exports", X2 contains "Imports", X3 contains "Industrial production growth rate", X4 contains "Investment", and X5 contains "Unemployment rate". At the bottom of the page, the text "1 Variable Model" is displayed.

Thank You!

