

Anarion Technologies – LangChain & Flowise

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LangChain & Flowise on Ubuntu24

by Anarion Technologies

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Ready to use VM for Production + Free Support

LangChain is a versatile framework tailored for developers looking to create powerful applications using language models, particularly those built on GPT-like technologies. It simplifies the process of integrating language models with various data sources, APIs, and external services, enabling developers to construct complex workflows. LangChain's primary focus is on the creation of "chains," where multiple tasks (such as data processing, API calls, and model interactions) can be linked together to form end-to-end solutions. It also supports advanced functionalities like memory management, document retrieval, and query generation. By providing these building blocks, LangChain accelerates the development of AI-powered applications, such as chatbots, document processing systems, and question-answering frameworks, making it a powerful tool for leveraging the potential of AI in real-world use cases.

Flowise is a user-friendly, no-code platform designed to help both technical and non-technical users build, automate, and deploy machine learning and AI workflows with ease. It provides a drag-and-drop interface that allows users to design data pipelines and AI-driven processes without writing any code. Whether you're working on data integration

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LangChain & Flowise on Ubuntu24

By Anarion Technologies

Plan

Langchain & Flowise on Ubuntu24



Pricing

Starting at \$0.045/hour

Description

Langchain & Flowise on Ubuntu24

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Anarion Technologies



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Anarion Technologies | Virtual Machine

Subscription

Azure subscription 1

Plan

Langchain & Flowise on Ubuntu24

Create

Start with a pre-set configuration

Want to deploy programmatically? [Get started](#)

Overview

Plans + Pricing

Usage Information + Support

Ratings + Reviews

LangChain is a versatile framework tailored for developers looking to create powerful applications using language models, particularly those built on GPT-like technologies. It simplifies the process of integrating language models with various data sources, APIs, and external services, enabling developers to construct complex workflows. LangChain's primary focus is on the creation of "chains," where multiple tasks (such as data processing, API calls, and model interactions) can be linked together to form end-to-end solutions. It also supports advanced functionalities like memory management, document retrieval, and query generation. By providing these building blocks, LangChain accelerates the development of AI-powered applications, such as chatbots, document processing systems, and question-answering frameworks, making it a powerful tool for leveraging the potential of AI in real-world use cases.

Flowise is a user-friendly, no-code platform designed to help both technical and non-technical users build, automate, and deploy machine learning and AI workflows with ease. It provides a drag-and-drop interface that allows users to design data pipelines and AI-driven processes without writing any code. Whether you're working on data integration, transformation, or implementing complex machine learning models, Flowise simplifies the creation of these workflows. It offers a visual environment to define tasks, set triggers, and connect different systems, enabling users to automate processes across various applications. Flowise is ideal for building everything from simple

Create a virtual machine, enter or select appropriate values for zone, machine type, resource group and so on as per your choice.

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#) 

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * 	Azure subscription 1 
Resource group * 	Demo  Create new

Instance details

Virtual machine name * 	Demo 
Region * 	(US) East US 

Review + create

[< Previous](#)

[Next : Disks >](#)

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

Disk options

OS disk type * ⓘ

Premium SSD (locally-redundant storage) ▼

Encryption type *

(Default) Encryption at-rest with a platform-managed key ▼

Enable Ultra Disk compatibility ⓘ

☐

Ultra disk is available only for Availability Zones in eastus.

Data disks

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

i Adding unmanaged data disks is currently not supported at the time of VM creation. You can add them after the VM is

Review + create

< Previous

Next : Networking >

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network *	(new) Demo-vnet Create new
Subnet *	(new) default (10.1.0.0/24)
Public IP	(new) Demo-ip Create new
NIC network security group	☐ None ☒ Basic ☐ Advanced

Review + create

< Previous

Next : Management >

Create a virtual machine ...

-  Help me create a low cost VM
- Help me create a VM optimized for high availability
- Help me choose the right VM size for my workload

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Configure monitoring options for your VM.

Alerts

Enable recommended alert rules ⓘ ☐

Diagnostics

Boot diagnostics ⓘ ☒ Enable with managed storage account (recommended)
☐ Enable with custom storage account
☐ Disable

Enable OS guest diagnostics ⓘ ☐

Health

Enable application health monitoring ⓘ ☐

< Previous

Next : Advanced >

Review + create

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#) 

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name 	Value 	Resource
	:	12 selected 

Review + create

< Previous

Next : Review + create >

[Home](#) >

Create a virtual machine ...

 Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

 Cost given below is an estimate and not the final price. For all your pricing needs, please use the pricing calculator. 

Price

1 X Standard B1s
by Microsoft
[Terms of use](#) | [Privacy policy](#)

Subscription credits apply 
0.8652 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

< Previous

Next >

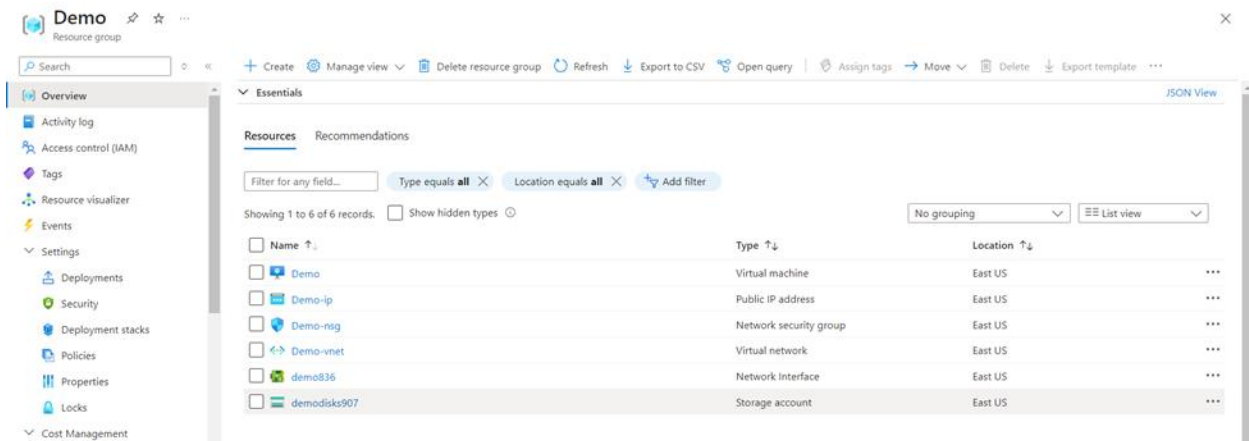
Create

After Process of Create Virtual Machine. You have got an Option Go to Resource Group

Click Go to Resource Group

Copy the Public IP Address

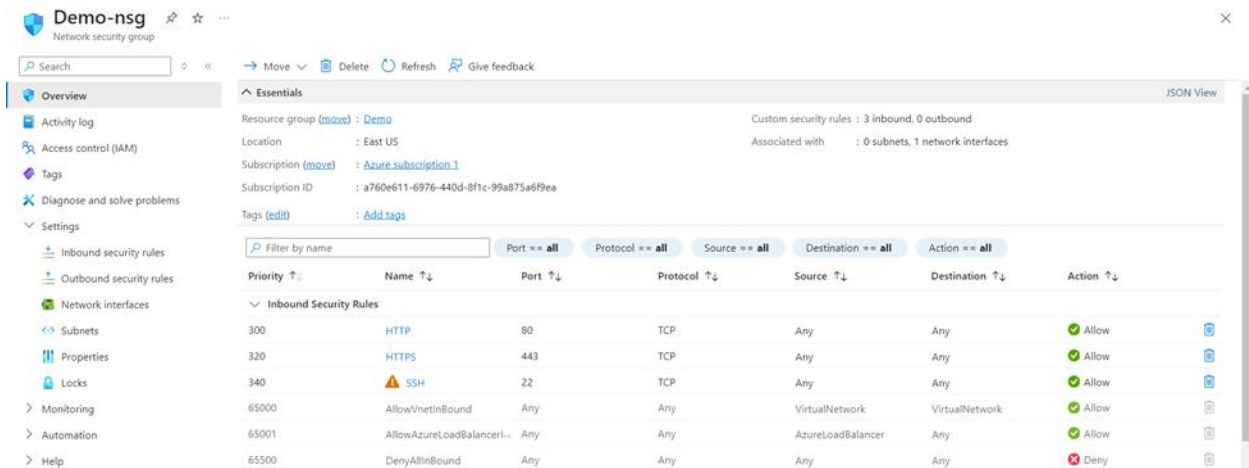
Click on the Network Security Group: langchain-nsg



The screenshot shows the Azure portal interface for a resource group named 'Demo'. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Events, Settings, Deployments, Security, Deployment stacks, Policies, Properties, Locks, and Cost Management. The main area displays the 'Essentials' section with a 'Resources' tab selected. A table lists the resources within the group:

Name	Type	Location
Demo	Virtual machine	East US
Demo-ip	Public IP address	East US
Demo-nsg	Network security group	East US
Demo-vnet	Virtual network	East US
demo836	Network interface	East US
demodisks907	Storage account	East US

Click on Inbound Security Rule



The screenshot shows the Azure portal interface for a network security group named 'Demo-nsg'. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Inbound security rules, Outbound security rules, Network interfaces, Subnets, Properties, Locks, Monitoring, Automation, and Help. The main area displays the 'Essentials' section with a table of inbound security rules:

Priority	Name	Port	Protocol	Source	Destination	Action
300	HTTP	80	TCP	Any	Any	Allow
320	HTTPS	443	TCP	Any	Any	Allow
340	SSH	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Click on Add

- Search
- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
- Inbound security rules
- Outbound security rules
- Network interfaces
- Subnets
- Properties
- Locks
- Monitoring

+ Add Hide default rules Refresh Delete Give feedback

Network security group security rules are evaluated by priority using the combination of source, source port, destination, destination port, and protocol to allow or deny the traffic. A security rule can't have the same priority and direction as an existing rule. You can't delete default security rules, but you can override them with rules that have a higher priority. [Learn more](#)

Filter by name

Port == all Protocol == all Source == all Destination == all Action == all

Priority	Name	Port	Protocol	Source	Destination	Action	
☐ 300	HTTP	80	TCP	Any	Any	Allow	
☐ 320	HTTPS	443	TCP	Any	Any	Allow	
☐ 340	SSH	22	TCP	Any	Any	Allow	
☐ 65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow	
☐ 65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow	
☐ 65500	DenyAllInBound	Any	Any	Any	Any	Deny	



Add inbound security rule

Sonar-VM-nsg



Source ⓘ

Any



Source port ranges * ⓘ

*

Destination ⓘ

Any



Service ⓘ

Custom



Destination port ranges * ⓘ

8080

Protocol



Any



TCP



UDP



ICMPv4

Action



Allow



Deny

Add

Cancel



Give feedback

Add Port

Destination Port Ranges Section* (where default value is 8080)

3000

Select Protocol as TCP

Option Action is to be Allow

Click on Add

Click on Refresh

Copy the Public IP Address

```
$ source langflow-env/bin/activate
```

To verify LangChain is working:

```
(langflow-env) root@testing:/# python
Python 3.12.3 (main, Feb 4 2025, 14:48:35) [GCC 13.3.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> from langchain.prompts import PromptTemplate
intelligence tools")
print(output)
>>>
>>> template = "What is a good name for a company that makes {product}?"
>>> prompt = PromptTemplate.from_template(template)
>>>
>>> output = prompt.format(product="artificial intelligence tools")
>>> print(output)
What is a good name for a company that makes artificial intelligence tools?
>>> |
```

To Start Flowise:

```
$ source /home/flowise/langchain-env/bin/activate
```

```
$ npx flowise start
```

```
(langchain-env) root@testing:/# npx flowise start
2025-12-20 11:03:16 [INFO]: Starting Flowise...
2025-12-20 11:03:17 [INFO]: 📦 [server]: Data Source initialized successfully
2025-12-20 11:03:17 [INFO]: 🗄️ [server]: Database migrations completed successfully
2025-12-20 11:03:17 [INFO]: 🔑 [server]: Identity Manager initialized successfully
2025-12-20 11:04:36 [INFO]: 🛠️ [server]: Nodes pool initialized successfully
2025-12-20 11:04:36 [INFO]: 🛑 [server]: Abort controllers pool initialized successfully
2025-12-20 11:04:36 [INFO]: 🔑 [server]: Encryption key initialized successfully
2025-12-20 11:04:36 [INFO]: 🚦 [server]: Rate limiters initialized successfully
2025-12-20 11:04:36 [INFO]: 🗄️ [server]: Cache pool initialized successfully
2025-12-20 11:04:36 [INFO]: 🗂️ [server]: Usage cache manager initialized successfully
2025-12-20 11:04:36 [INFO]: 📡 [server]: Telemetry initialized successfully
2025-12-20 11:04:36 [INFO]: 🗣️ [server]: SSE Streamer initialized successfully
2025-12-20 11:04:36 [INFO]: 🌈 [server]: All initialization steps completed successfully!
2025-12-20 11:04:36 [INFO]: ⚡ [server]: Flowise Server is listening at :3000
0
```

Open your web browser and go to <http://your-server-ip:3000>. You will be prompted Flowise Dashboard:

Email- admin@gmail.com

Password- Admin@123

Sign In

Email *

Password *

[Forgot password?](#)

Welcome to the Dashboard.

Chatflows

Agentflows

Executions

Assistants

Marketplaces

Tools

Credentials

(x) Variables

API Keys

Document Stores

Chatflows

Build single-agent systems, chatbots and simple LLM flows

Q Search Name or Category [Ctrl + F]

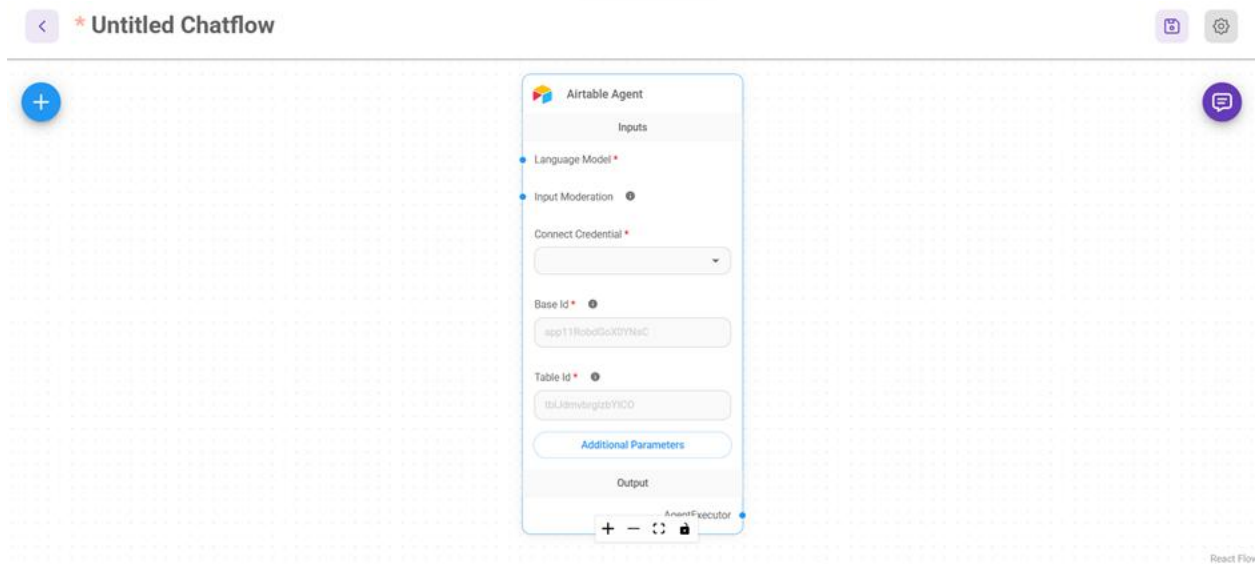


+ Add New



No Chatflows Yet

Click on Add New and Choose Model, Create your Chatflow:



Assistants

 Chatflows Agentflows BETA Assistants Marketplaces Tools Credentials Variables API Keys Document Stores

Assistants

 Custom

Custom Assistant

Create custom assistant using your choice of LLMs

 OpenAI

OpenAI Assistant

Create assistant using OpenAI Assistant API

 Azure

Azure Assistant (Coming Soon)

Create assistant using Azure Assistant API

Thanks!!!