

Anarion Technologies – LangChain & LangFlow

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LangChain & LangFlow on Ubuntu26

by Anarion Technologies

Virtual Machines

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Production Ready VM on Ubuntu26.04 LTS + Free Support

LangChain is an framework designed to facilitate the development of applications powered by large language models (LLMs). It provides a structured way to build AI-driven workflows by chaining together multiple components, such as language models, memory, APIs, and external data sources. LangChain is particularly useful for creating intelligent applications that require dynamic and context-aware responses, such as chatbots, automated document analysis, question-answering systems, and conversational agents. One of its key strengths is its ability to integrate with various

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LangChain & LangFlow on Ubuntu26

By Anarion Technologies

Plan

LangChain & LangFlow on Ubuntu26



Pricing

Starting at \$0.045/hour

Description

LangChain & LangFlow on Ubuntu26

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Start with a pre-set configuration

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

Overview

Plans + Pricing

Usage Information + Support

Ratings + Reviews

LangChain is an framework designed to facilitate the development of applications powered by large language models (LLMs). It provides a structured way to build AI-driven workflows by chaining together multiple components, such as language models, memory, APIs, and external data sources. LangChain is particularly useful for creating intelligent applications that require dynamic and context-aware responses, such as chatbots, automated document analysis, question-answering systems, and conversational agents. One of its key strengths is its ability to integrate with various databases, vector stores, and APIs, allowing developers to leverage real-time and persistent data to

Creating 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 ...

Basics Disks Networking Management Advanced Tags Review + create

Configure monitoring and management options for your VM.

Azure Security Center

Azure Security Center provides unified security management and advanced threat protection across hybrid cloud workloads. [Learn more](#)

✓ Your subscription is protected by Azure Security Center basic plan.

Monitoring

Boot diagnostics ⓘ ☐ On
☒ Off

Enable OS guest diagnostics ⓘ ☐

Identity

[Review + create](#)

[< Previous](#)

[Next : Advanced >](#)

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 v

[Review + create](#)

[< Previous](#)

[Next : Review + create >](#)

[Home](#) >

Create a virtual machine ...

✓ Validation passed

[Basics](#) [Disks](#) [Networking](#) [Management](#) [Monitoring](#) [Advanced](#) [Tags](#) [Review + create](#)

i 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
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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**

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 is titled 'Essentials' and includes a search bar, action buttons (Create, Manage view, Delete resource group, Refresh, Export to CSV, Open query, Assign tags, Move, Delete, Export template), and a 'JSON View' link. Below this is a 'Resources' section with a filter bar and a table of resources.

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**

Demo-nsg

Network security group

Search

MoveDeleteRefreshGive feedback

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

Help

Essentials

JSON View

Resource group (move) : Demo

Location : East US

Subscription (move) : Azure subscription 1

Subscription ID : a760e611-6976-440d-8f1c-99a875a6f9ea

Tags (edit) : Add tags

Custom security rules : 3 inbound, 0 outbound

Associated with : 0 subnets, 1 network interfaces

Filter by name

Port == allProtocol == allSource == allDestination == allAction == all

Priority	Name	Port	Protocol	Source	Destination	Action
Inbound Security Rules						
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**

Demo-nsg | Inbound security rules

Network security group

Search

AddHide default rulesRefreshDeleteGive feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

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 == allProtocol == allSource == allDestination == allAction == 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 Port



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)

7860

Select **Protocol** as **TCP**

Option **Action** is to be **Allow**

Click on **Add**

Click on **Refresh**

Copy the Public IP Address

SSH into Terminal and Run these Commands:

```
$ sudo su
```

```
$ cd ../../
```

Activate langflow_env Virtual Environment:

```
$ cd langchain
```

```
$ source venv/bin/activate
```

```
root@localhost: /langchain
root@localhost: /# ls
bin      boot  etc   langchain  lib.usr-is-merged  lost+found  mnt  proc  run  sbin.usr-is-merged  srv  tmp  var
bin.usr-is-merged  dev  home  lib        lib64            media      opt  root  sbin  snap                sys  usr
root@localhost: /# cd langchain/
root@localhost: /langchain# ls
venv
root@localhost: /langchain# source venv/bin/activate
(venv) root@localhost: /langchain#
```

Verify installation:

```
(venv) root@localhost: /langchain# python -c "import langchain; print(langchain.__version__)"
0.3.23
(venv) root@localhost: /langchain#
```

To bind to all interfaces (for remote access):

```
$ langflow run --host 0.0.0.0 --port 7860
```

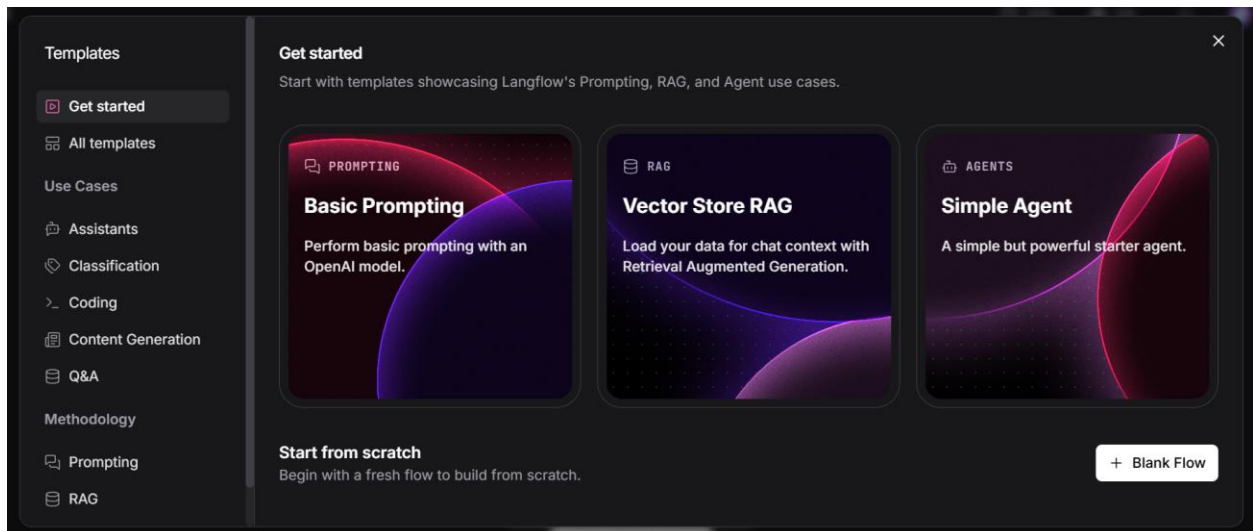
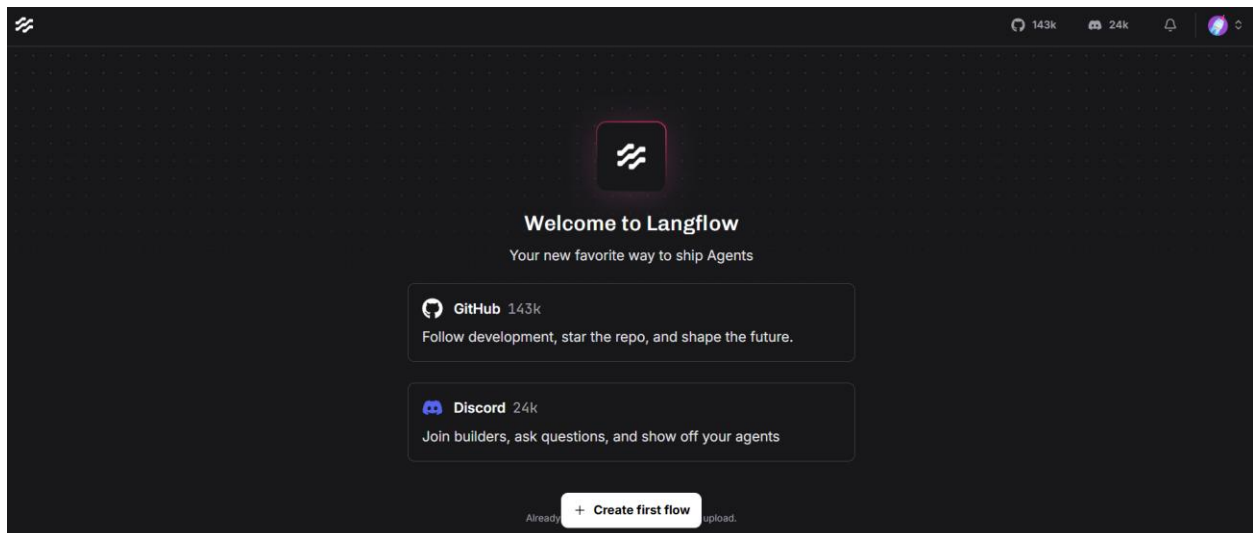
```
root@localhost: /# cd langchain/
root@localhost: /langchain# source venv/bin/a
bash: venv/bin/a: No such file or directory
root@localhost: /langchain# source venv/bin/activate
(venv) root@localhost: /langchain# langflow run --host 0.0.0.0 --port 7860
/langchain/venv/lib/python3.14/site-packages/langchain_core/utils/pydantic.py:41: UserWarning: Core Pydantic V1 functionality isn't compatible with Python 3.14 or greater.
  from pydantic.v1 import BaseModel as BaseModelV1
✓ Initializing Langflow...
✓ Checking Environment...
⊠ Starting Core Services...2026-05-20T03:58:41.993802Z [warning ] CORS: Using permissive defaults (all origins + credentials). Set LANGFLOW_CORS_ORIGINS for production. Stricter defaults in v2.0.
✓ Starting Core Services...
✓ Connecting Database...
✓ Loading Components...
✓ Adding Starter Projects...
⊠ Launching Langflow.../langchain/venv/lib/python3.14/site-packages/lfx/schema/cross_module.py:48: PydanticDeprecatedSince211: Access
```

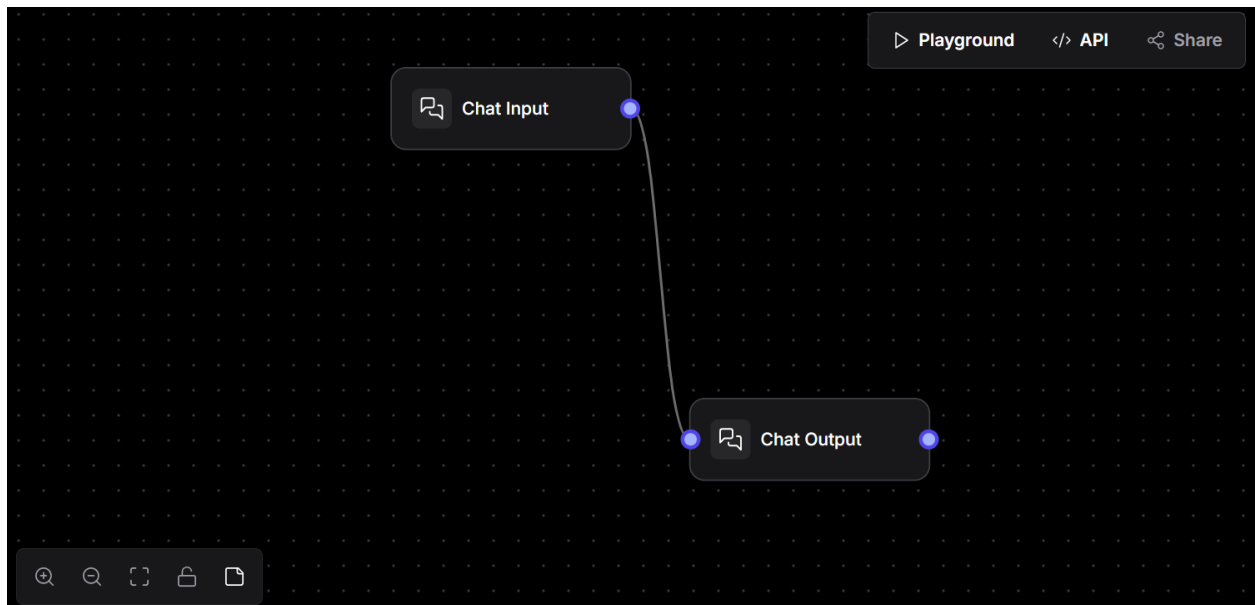
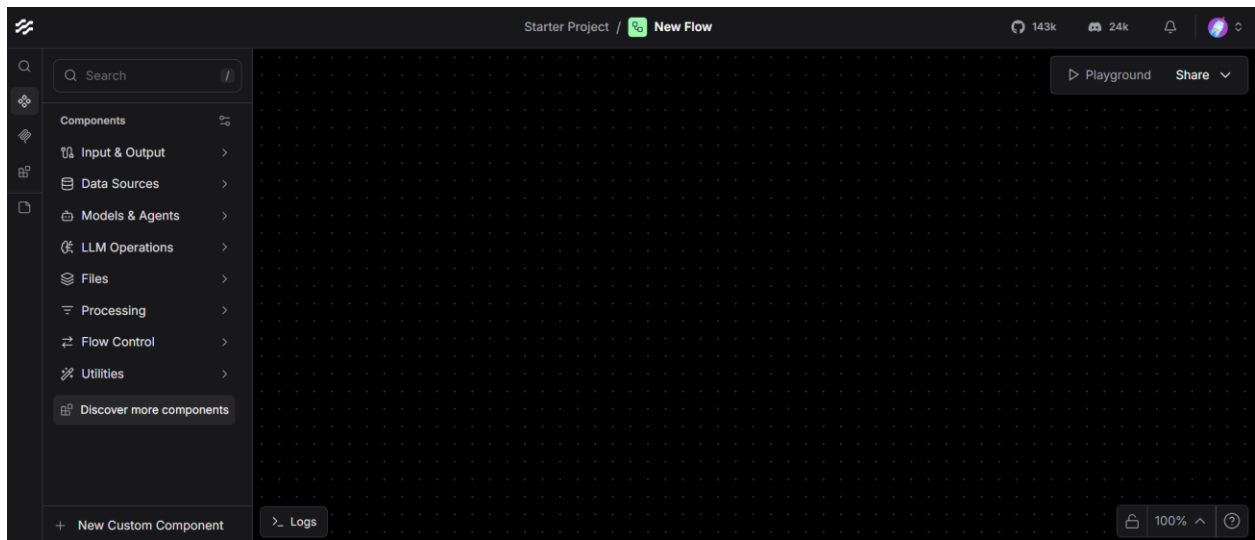
Welcome to 🐙Langflow

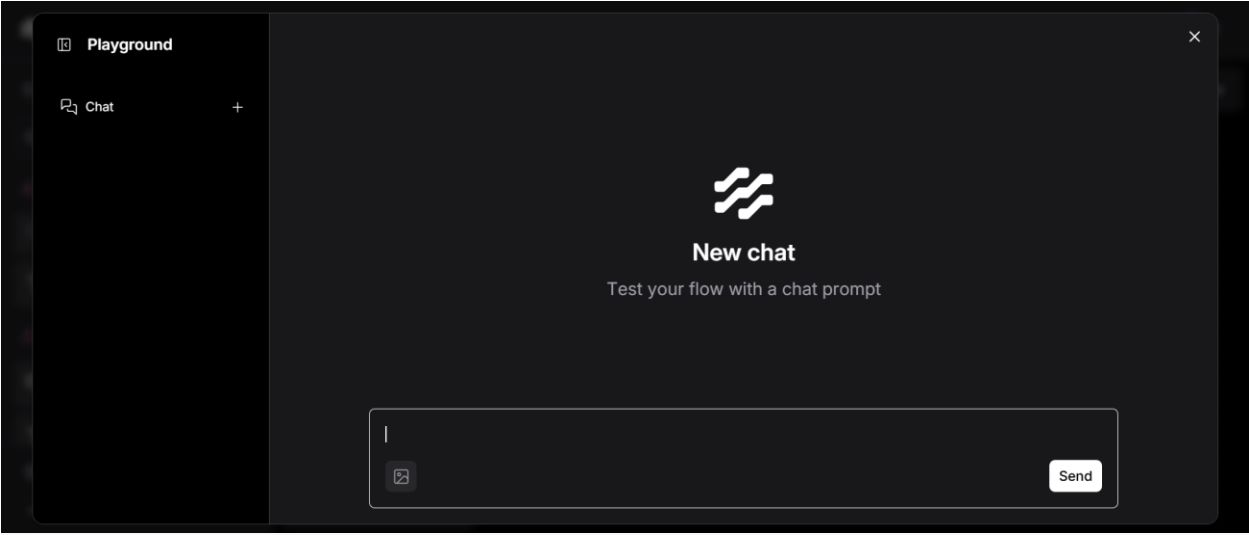
Collaborate, and contribute at our [GitHub Repo](#) 🌟

We collect anonymous usage data to improve Langflow.
You can opt-out by setting `DO_NOT_TRACK=true` in your environment.

Access <http://0.0.0.0:7860>







Thanks!!!