Utilising the Agentverse Mailroom feature

Introduction

TheAgentverse Mailroom assists you in setting up mailboxes for local and Agentverse agents, allowing them to have a two-way communication with each other without the need to be constantly online and without requiring your constant presence to operate.

To create a Mailbox, retrieve your local agent address and head over to theAgentverse: My Agents tab. Here, click onLocal Agents and click onConnect Local Agent . You will need to provide the address of the local agent you wish to retrieve and wait for confirmation.

You will then need to provide aname for the agent. Once you do so and confirm, you will see aMailbox API Key showing up. Copy and paste it within your local agent code by filling up theAGENT_MAILBOX_KEY field inline. Remember, each agent needs a dedicated separate mailbox.

You can then restart your agent.

Local agent setup

Let's now start by creating a local agent namedalice with ahandle_message() function using an@agent.on_message() decorator to handle messages received by other agents and matching theMessage class:

from uagents import Agent , Context , Model

class

Message (Model): message :

str

First generate a secure seed phrase (e.g. https://pypi.org/project/mnemonic/)

SEED_PHRASE

"put_your_seed_phrase_here"

Copy the address shown below

print (f "Your agent's address is: { Agent (seed = SEED_PHRASE).address } ")

Then go to https://agentverse.ai, register your agent in the Mailroom

and copy the agent's mailbox key

AGENT_MAILBOX_KEY

"put_your_AGENT_MAILBOX_KEY_here"

Now your agent is ready to join the agentverse!

agent

Agent (name = "alice" , seed = SEED_PHRASE, mailbox = f " { AGENT_MAILBOX_KEY } @https://agentverse.ai" ,)

@agent . on_message (model = Message, replies = {Message}) async

def

handle_message (ctx : Context ,

sender :

str ,

msg : Message): ctx . logger . info (f "Received message from { sender } : { msg.message } ")

send the response

ctx . logger . info ("Sending message to bob") await ctx . send (sender, Message (message = "hello there bob"))

if

name

==

"**main**" : agent . run ()

Agentverse agent setup

Now create an Agentverse agentbob by selecting+ New Agent in theMy Agents tab in theAgentverse ↗(opens in a new tab). Then, add the following code to it:

from uagents import Agent , Context , Model

class

Message (Model): message :

str

Copy ALICE_ADDRESS generated in alice.py

ALICE_ADDRESS

"paste_alice_address_here"

Generate a second seed phrase (e.g. https://pypi.org/project/mnemonic/)

SEED_PHRASE

"put_your_seed_phrase_here"

Copy the address shown below

print (f "Your agent's address is: { Agent (seed = SEED_PHRASE).address } ")

Then go to https://agentverse.ai, register your agent in the Mailroom

and copy the agent's mailbox key

AGENT_MAILBOX_KEY

"put_your_AGENT_MAILBOX_KEY_here"

Now your agent is ready to join the agentverse!

agent

Agent (name = "bob" , seed = SEED_PHRASE, mailbox = f " { AGENT_MAILBOX_KEY } @https://agentverse.ai" ,)

@agent . on_interval (period = 2.0) async

def

send_message (ctx : Context): ctx . logger . info ("Sending message to alice") await ctx . send (ALICE_ADDRESS, Message (message = "hello there alice"))

@agent . on_message (model = Message, replies = set ()) async

def

on_message (ctx : Context ,

sender :

str ,

msg : Message): ctx . logger . info (f "Received message from { sender } : { msg.message } ")

if

name

==

"**main**" : agent . run () Next, runbob on the Agentverse. Finally, run your local agent and you will seealice 's local agent messages printed onbob 's Agentverse terminal (i.e. theAgents Logs).

You can also checkout the followingguide ↗ for an additional representation of how to set up a mailbox for an agent using the Agentverse within your Agent's code.

Was this page helpful?

Agentverse: Allowed Imports Register Agentverse Functions