Agent Mailboxes

Agents can communicate with other agents registered on the Fetch Network without the need to be constantly online and without requiring your constant presence to operate. This is achieved thanks to theAgentverse Mailbox functionality.

i You can find additional information on the Agentverse Mailbox featurehere ↗ . This resource shows both the local and Agentverse agents setups to allow for a two-way communication line between these two agents.

Local agent setup

Let's 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 () You can easily create a Mailbox by first retrieving 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 above by filling up theAGENT_MAILBOX_KEY field inline.

You can then restart your agent.

Was this page helpful?

Options for running your agents Agent Functions