

Utilizing the Agentverse Mailroom service

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.

Local agent setup

Let's now start by creating a local agent named `alice` with `ahandle_message()` function using `@agent.on_message()` decorator to handle messages received by other agents and matching the `Message` 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 the[Agentverse ↗\(opens in a new tab\)](#). 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 ).
```

Was this page helpful?

[Agentverse Services: register a dice roll agent as a service](#) [Agentverse: allowed imports](#)