

Agentic AI Server: Docker Deployment Guide

This document outlines the steps required to configure the environment, update database entries, restart core services, and deploy the Agentic AI Server Docker container.

1. Redis Configuration

Agentic AI needs to connect with the Redis server running on the host machine, and for that the default gateway IP for the Docker host is `172.17.0.1`. You must bind the Redis configuration to the Controller IP to ensure accessibility.

1. Navigate to the Redis configuration directory:
Bash
`cd /etc/redis/`
2. Open `redis.conf` and locate the `bind` directive.
3. **Comment out** the default bind line and **add** a new line including both the docker bridge ip and localhost:
`# bind 127.0.0.1 ::1 <-- Comment this out`

`bind 172.17.0.1 127.0.0.1`

2. MongoDB Service Registration

Register the Agentic AI service in the configuration database and ensure the Redis service IP is correct. Ideally installer should handle this configuration but if it is not present, we need to add it manually.

A. Insert Agentic AI Service

Check if the `agenticAiServer` entry exists in the `config_db > Service` collection.

```
use config_db;
```

```
db.Service.find();
```

If not, run the following query in the Controller MongoDB:

```
use config_db
```

```
db.Service.insertOne({
  controller: "work",
  protocol: "http",
  port: NumberLong(8000),
  ip: "127.0.0.1",
  name: "agenticAiServer",
  host: "cavisson"
})
```

4. Restart Core Services

For the configuration changes to take effect, follow this exact order. **You must verify Redis is up before proceeding.**

1. Restart Redis Server
2. Verify Redis is Running:
 - Ensure the service started successfully (e.g., check `/etc/init.d/redis-server status`).
 - *Do not proceed to the next step until Redis is confirmed active.*
3. **Restart Node Server** if agentic ai server entry not found in mongo, as it needs to load the service configuration from the redis server.

5. Docker Deployment

A. Pull Docker Image

Fetch the latest build from the repository: [Docker Hub - Cavisson Agentic AI](#)

```
Bash
# Example tag: 4.14.1.B29
docker pull cavissonsystem/agenticai:4.14.1.B29
```

B. Run Docker Container

Start the container using host networking and the required volume mount.

```
Bash
docker run -d --network=host -v /home/cavisson/work:/home/cavisson/work
cavissonsystem/agenticai:4.14.1.B29
```

6. Post-Deployment Configuration

To enable AI test case generation, you must configure the `CAV_TOKEN`, `API_URL` and `REDIS_URL` inside the running container. `API_URL` and `REDIS_URL` will be committed with the suggested changes by default, as this configuration may work in most of the cases.

1. **Access the container shell:**

```
docker exec -it <container_id> bash
```

2. **Edit the environment file:** Open the `.env` file:

```
vi .env
```

Update the following variables:

Properties

```
CAV_TOKEN=<your_controller_node_cavtoken>
```

```
API_URL=https://172.17.0.1:443
```

```
REDIS_URL=redis://172.17.0.1:6379/0
```

3. **Apply Changes:** Exit the container and restart it to apply the configuration:

```
Bash
```

```
docker restart <container_id>
```
