

Zusammenfassung *(automatisiert erstellt)*

Sie bittet um Hilfe bei einem fehlerhaften Container-Start in XNAT, nachdem eine JSON-Konfiguration erfolgreich eingereicht wurde. Der Nutzer arbeitet an einem Bachelor-Projekt mit einer Docker-basierten KI-Implementierung, hat ein Image vorbereitet, und eine JSON-Definition, die jedoch den Container nicht zum Laufen bringt. Die E-Mail fordert eine Fehleranalyse sowie Unterstützung bei der Behebung. Der Text wurde in eine professionelle E-Mail umformuliert, inklusive klarer Beschreibung des Problems, JSON-Auszug und höflicher Bitte um Unterstützung. Der Entwurf empfiehlt, Platzhalter durch tatsächliche Namen zu ersetzen und ggf. vollständiges JSON beizufügen.

Systemprompt

Du bist ein intelligentes und unterstützendes KI-Assistenzsystem für alle Hochschulangehörigen der HAWK Hildesheim/Holzminden/Göttingen. Dein Ziel ist es, Studierende, Lehrende, Forschende und Mitarbeitende in ihrer akademischen Arbeit, beim Lernen, Forschen, Lehren und verwalterischen Aufgaben zu unterstützen. Dabei förderst du kollaboratives Arbeiten, wissenschaftliches Denken und eine kreative Problemlösung. Beziehe dich auf wissenschaftliche Methoden und Theorien, argumentiere sachlich und reflektiere kritisch. Sei objektiv und verzichte auf unbegründete Meinungen. Fördere akademische Integrität und unterstütze keine Plagiate. Sei inklusiv, wertschätzend und respektiere Vielfalt.

Verlauf:

Bousfiha, Tanae:

hello,

am working in my Bachelor project on a OSA KI

Implementation in xnat with docker and i prepared my
docker image sha256:4c8dd3c2d635809c6160e204c73
90e3695cb75eeb11ed1b673780e9fc8c001c1.

i prepared my Json command on xnat localhost :

```
{
  "name": "osa_predictor_csv",
  "label": "OSA Predictor CSV",
  "description": "Berechnet das  
OSA-Risiko aus einer CSV-Datei.",
  "version": "1.0",
  "image": "tanaebousfiha/osa-risk-predi  
ction@sha256:5832f7dd4d4b5289f09e2c7966ad48f50e5  
593a7619eeef8ef844a6ff1509de0",
  "type": "docker",
  "command-line": "python  
/app/osa_prediction.py /input/${inputs.osa_input}  
/output/osa_result.json",
  "mounts": [
    {
      "name": "input_mount",
      "writable": true,
      "path": "/input",
    },
    {
      "name": "output_mount",
      "writable": true,
      "path": "/output",
    }
  ],
  "environment-variables": {},
  "ports": {},
  "inputs": [
    {
```

```

    &quot;name&quot;:: &quot;osa_input&quot;,
    &quot;description&quot;:: &quot;CSV file with input
data&quot;,
    &quot;type&quot;:: &quot;file&quot;,
    &quot;required&quot;:: true,
    &quot;select-values&quot;:: []
  }
],
&quot;outputs&quot;:: [
  {
    &quot;name&quot;:: &quot;osa_output&quot;,
    &quot;description&quot;:: &quot;Output JSON
file&quot;,
    &quot;required&quot;:: true,
    &quot;mount&quot;:: &quot;output_mount&quot;,
    &quot;glob&quot;:: &quot;*.json&quot;
  }
],
&quot;xnat&quot;:: [
  {
    &quot;name&quot;:: &quot;osa_wrapper&quot;,
    &quot;label&quot;:: &quot;OSA Predictor&quot;,
    &quot;description&quot;:: &quot;Run OSA Predictor
with a CSV input.&quot;,
    &quot;contexts&quot;:: [
      &quot;xnat:projectData&quot;,
      &quot;xnat:sessionData&quot;
    ],
    &quot;external-inputs&quot;:: [
      {
        &quot;name&quot;:: &quot;osa_input&quot;,
        &quot;description&quot;:: &quot;CSV file with input
data&quot;,
        &quot;type&quot;:: &quot;File&quot;,
        &quot;required&quot;:: true,
        &quot;provides-value-for-command-input&quot;::
&quot;osa_input&quot;,
        &quot;provides-files-for-command-mount&quot;::

```

```

    "input_mount":,
    "user-settable": true,
    "load-children": true
  }
],
"derived-inputs": [],
"output-handlers": [
  {
    "name":
"osa_result_output":,
    "accepts-command-output":
"osa_output":,
    "as-a-child-of": "osa_input":,
    "type": "Resource":,
    "label": "OSA Ergebnis":,
    "tags": []
  }
]
}
],
"container-labels": {},
"generic-resources": {},
"ulimits": {},
"secrets": []
}

```

the command was accepted but the container is not running at all it failed .

could you please help me to correct or add something to my steps

HAWKI (gpt-4.1):

Certainly, and congratulations on getting this far in your Bachelor project! Your JSON specification for the XNAT **container service** shows good understanding, but there can be several reasons why your container fails to start. Let me guide you through systematic troubleshooting and potential improvements:

1. **Check Container Logs in XNAT**

****First action:****

Go to the XNAT web interface ****[Administer > Container Service > Job Status]****

Find your failed job and click "logs".

****Note**** the output and error logs for the exact failure message—this is crucial for diagnosis.

2. **Common Reasons and Solutions**

a. **Entry Point / Python Script Path**

- ****Issue****: The provided `"command-line"` references:

```
```bash
```

```
python /app/osa_prediction.py /input/${inputs.osa_input} /output/osa_result.json
```

```
```
```

- Is `/app/osa_prediction.py` the correct path in your image?

- Try running the container interactively:

```
```bash
```

```
docker run -it tanaebousfiha/osa-risk-prediction@sha256:5832f7dd4d4b5289f09e2c7966ad48f50e5593a7619eeef8ef844a6ff1509de0 bash
```

```
and then check
```

```
ls /app
```

```
python /app/osa_prediction.py --help
```

```
```
```

- ****Solution****: Adjust the path if needed.

b. **Mounts and File Availability**

- ****Issue****: The container expects `/input/${inputs.osa_input}` as a CSV, but sometimes:

- The file is not mounted correctly;

- Path misconfiguration causes file-not-found errors.

- ****Check****

- Ensure the mount name in `"inputs"` (`osa_input`) aligns with the mount in

`"mounts"`.

- In your code, print/log the path received for debugging.

c. ****Outputs Declaration****

- ****Issue****: The file written by your script must match the `"glob": "*.json"` in the output section.
- ****Solution****: Make sure that `/output/osa_result.json` is actually written by your script.

d. ****User Permissions****

- ****Issue****: If the container user does not have write permissions in `/output`, results won't be saved.
- ****Solution****: Check Dockerfile for `USER`, or try running as root for debugging, then set appropriate permissions.

e. ****Image Digests****

- ****Issue****: Mismatched digests. The image in `"image": ...` must match what you pushed (the latest?).
- ****Check****: Make sure `docker pull tanaebousfiha/osa-risk-prediction@sha256:5832f7dd4d4b5289f09e2c7966ad48f50e5593a7619eeef8ef844a6ff1509de0` works and is up-to-date.

3. ****Suggestions for Improvement****

- ****Add Logging****: Add print/log statements at the start of your Python script to output paths received and check file existence.

```
```python
import os
print("Input File:", sys.argv[1], "Exists:", os.path.exists(sys.argv[1]))
print("Output Directory:", os.path.dirname(sys.argv[2]), "Writable:",
```

```
os.access(os.path.dirname(sys.argv[2]), os.W_OK))
```

```
...
```

- **Container Test Locally**: Make sure you can run

**Bousfiha, Tanae:**

i just wanted that you correct my mail

**HAWKI (gpt-4.1):**

Absolutely! Here's a revised and professional version of your email request:

---

**Subject:** Request for Assistance: XNAT Container Not Running

Dear [Recipient's Name],

I hope this message finds you well.

I am currently working on my Bachelor project, which involves implementing an OSA KI model in XNAT using Docker. I have successfully prepared and pushed my Docker image (sha256:4c8dd3c2d635809c6160e204c7390e3695cb75eeb11ed1b673780e9fc8c001c1), and created the following JSON command for use on my local XNAT instance:

```
```json
```

```
{
```

```
  "name": "osa_predictor_csv",
```

```
  "label": "OSA Predictor CSV",
```

```
  "description": "Berechnet das OSA-Risiko aus einer CSV-Datei.",
```

```
  "version": "1.0",
```

```
  "image": "tanaebousfiha/osa-risk-prediction@sha256:5832f7dd4d4b5289f09e2c7966ad48f50e5593a7619eeef8ef844a6ff1509de0",
```

```
  "type": "docker",
```

```
  "command-line": "python /app/osa_prediction.py /input/${inputs.osa_input} /output/osa_result.json",
```

```
  "mounts": [
```

```

{
  "name": "input_mount",
  "writable": true,
  "path": "/input"
},
{
  "name": "output_mount",
  "writable": true,
  "path": "/output"
}
],
"inputs": [
  {
    "name": "osa_input",
    "description": "CSV file with input data",
    "type": "file",
    "required": true
  }
],
"outputs": [
  {
    "name": "osa_output",
    "description": "Output JSON file",
    "required": true,
    "mount": "output_mount",
    "glob": "*.json"
  }
],
...
}
...

```

The command was accepted by XNAT, but unfortunately, the container does not run—it fails to start.

Could you please help me identify what might be missing or incorrect in my setup? Any suggestions or guidance for correcting my configuration or troubleshooting steps would be greatly appreciated.

Thank you very much for your support.

Best regards,
[Your Name]

****Tip:****

Replace `[Recipient's Name]` and `[Your Name]` with the real names, and remove the ellipsis `...` or include full JSON if needed by the recipient.

Would you like a version in German as well?