Welcome to A2A Gateway! This guide will walk you through building your first \*\*A2A-ready agent\*\*? an AI service that can communicate with others using the A2A protocol.

You can complete this in under 10 minutes. ##? Prerequisites Make sure you have: - Python 3.8+ - `pip install .` from the `a2a-gateway` repo - A basic understanding of HTTP APIs ## ? Step 1: Create Your Agent API Here's a minimal FastAPI-based agent that simply echoes input: ```python # echo\_agent.py from fastapi import FastAPI, Request from pydantic import BaseModel app = FastAPI()class A2ATask(BaseModel): input: str @app.post("/execute") async def execute(task: A2ATask):

return {"output": f"ECHO: {task.input}"}

```
```bash
uvicorn echo_agent:app --port 5005 --reload
Test it:
```bash
curl -X POST http://localhost:5005/execute -H "Content-Type: application/json" -d '{"input": "hello"}'
---
## ? Step 2: Create an `agent_card.json`
```json
 "id": "echo-agent",
 "name": "Echo Agent",
 "description": "Repeats back the input text.",
 "type": "Ilm",
 "entrypoint": "http://localhost:5005/execute",
 "capabilities": ["echo"],
 "language": "python",
 "version": "0.1.0",
 "author": "you"
}
## ? Step 3: Publish Your Agent
Use the CLI from `a2a-gateway`:
```bash
a2a-gateway publish --file agent_card.json
```

Run it:

```
...
```

Your agent is now discoverable by others (locally or in your custom registry). ## ? Step 4: Send a Task to Your Agent ```bash a2a-gateway task --to echo-agent --input "Hello A2A" Expected output: ```json "output": "ECHO: Hello A2A" ... ## ? Next Steps - Add logic to your agent - Host it on the web (e.g., Render, Railway) - Share your agent with the community - Submit a PR with your card to the A2A Gateway registry

Join the [Discord community](https://discord.gg/3wVy3qs2Zp) to collaborate with other builders?