

? How to Federate with Other A2A Agents

Federation means your agent can **discover**, **trust**, and **collaborate** with other agents using the A2A protocol.

This guide shows how to set up local or public agent federation using A2A Gateway.

? What Is Federation?

In A2A, federation means:

- Agents can ****share metadata**** through agent cards
- You can ****import cards**** from trusted registries
- Agents can ****route tasks**** to each other via their ``entrypoint``

Think of it as DNS + Web + Microservices? but for AI agents.

? Step 1: Import Other Agents' Cards

To federate with agents, you need their ``agent_card.json``.

These can come from:

- GitHub
- Your internal network
- Public A2A registry (coming soon)

Example:

```
```bash
wget https://example.com/agents/translator-card.json -O agents/translator.json
```
```

You can also clone cards into a shared folder.

?? Step 2: Register the Cards in Your Local Directory

Organize imported agents in a folder like:

```

```
a2a-gateway/
??? agents/
? ??? echo-agent.json
? ??? translator.json
```

```

Ensure your CLI or gateway loads cards from `./agents`.

? Step 3: Route a Task to a Federated Agent

With the card available, use the CLI:

```
```bash  
a2a-gateway task --to translator --input "Hello" --meta '{"lang": "fr"}'
```
```

This sends the task to the external agent's `entrypoint`.

? Step 4: Handle Trust and Security

You can add trust metadata in the card:

```
```json  
"trust": {
 "source": "https://github.com/org/verified-agents",
 "score": 0.92,
 "verified": true
```

```
}
...


```

?? Use secure `https` endpoints and authentication headers when needed.

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## ## ? Step 5: Contribute to the Ecosystem

Help others federate with you:

- Host your agent card at a stable public URL
- Include a `README.md` with usage instructions
- Add your agent to the public registry (coming soon)
- Share on Discord or in the `#introduce-your-agent` channel

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## ## ? Done!

You're now part of the A2A agent mesh ?

Start federating, exploring and collaborating ? one task at a time.

Need help? Jump into [our Discord](<https://discord.gg/3wVy3qs2Zp>)