

AGENT GUIDE



# Custom Agent Guide

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Build specialized AI agents with the ACOS framework.  
Design, configure, test, and deploy.

# Agent Anatomy

Every ACOS agent has four components: a **profile definition** (role, expertise), a **skill set** (capabilities), **trigger patterns** (when to activate), and **output standards** (quality expectations).

1

**Profile**

Name, role, expertise  
area

2

**Skills**

Curated skill packages

3

**Triggers**

Keywords, file types,  
context

4

**Standards**

Output quality criteria

Agent Definition – YAML Format

```
name: Data Analyst
role: Data Analysis & Visualization
skills:
  - data-scientist
  - d3-viz
  - sql-optimization
focus:
  - Data pipeline design
  - SQL optimization
  - Dashboard creation
triggers: data, analytics, SQL, dashboard
```

## 02 TUTORIAL

# Build Your First Agent

**Step 1: Define the profile** in your CLAUDE.md under the Agent Profiles section.

Choose a specific **domain** — not "general purpose" but something focused like "E-commerce Optimization" or "Data Pipeline Engineering".

**Step 2: Select skills** from the 630+ skill library.

Finding Skills

```
# List all available skills
$ npx skills list -g

# Add a new skill globally
$ npx skills add owner/repo -y -g

# Skills are stored at ~/.agents/skills/
```

**Step 3: Add auto-activation rules** in `skill-rules.json`.

skill-rules.json

```
{
  "name": "data-work",
  "match": ["*.sql", "*.csv", "data/*"],
  "skills": ["data-scientist", "sql-pro"]
}
```

**Step 4: Configure trigger keywords** so the `/acos` router activates your agent automatically.

# Agent Design Principles



## Single Responsibility

Each agent should excel at one domain. A "Frontend Designer" that also does backend work is a "General Assistant" — avoid that.



## Curated Skills

5-8 core skills per agent. Too many dilutes expertise. Pick the best, not the most.



## Clear Triggers

Use specific, non-overlapping keywords. "deploy" for DevOps, "design" for Frontend — no ambiguity.



## Output Standards

Define what "done" looks like. "Tested code" vs "deployed and verified" are different quality bars.

*"The best agent isn't the one with the most skills — it's the one that produces the most reliable output for its domain."*

## Common Patterns

PATTERN	WHEN TO USE
Specialist	Deep expertise in one area (e.g., SQL Optimizer)
Pipeline	Multi-step workflows (e.g., Content → SEO → Publish)
Reviewer	Quality gates and code review
Orchestrator	Coordinates multiple agents for complex tasks

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# Build Your Agents

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40+ agent templates. 630+ skills to combine. Infinite possibilities.

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Build what matters.