

AI Team Orchestration & Coordination Patterns

Module 5: Advanced Topics & Capstone | Advanced

Session 16 of 19 | 3 hours | Optional

Agenda

Segment	Time
Coordination trade-offs	7 min
Roles, routing, and memory	20 min
Issues and monitored work	8 min
Prepared team demonstration	12 min
Decision framework and lab handoff	13 min
Lab	2 hours

Coordination has a cost

Use a team when work has separate owners, clear interfaces, and a durable decision to share. An individual agent is better for a small, well-understood change.

More agents create more state, review work, and cost.

Coordinator pattern

Issue with acceptance criteria



Coordinator selects a bounded role



Role writes a proposal or change



Focused checks and human review



Decision record, merge, follow-up, or pause

The coordinator routes bounded work. An ambiguous request needs clarification before implementation.

Team boundaries

Role	Responsibility
Lead	Scope, decisions, review gate
Implementer	A bounded product area or file set
Tester	Focused checks and reported gaps
Scribe	Shared decisions and history
Work monitor	Surface ready, approved work

Agents need charters that state inputs, outputs, and limits. Avoid concurrent writes to the same files.

Shared memory

Commit durable decisions: the choice, evidence, owner, and date. Keep temporary drafts separate.

Agents can write individual proposals. A designated owner reviews and merges the shared record. Git history keeps the trail.

Issues and monitored work

An issue is a work contract. It needs acceptance criteria, non-goals, constraints, checks, and a reviewer.

Ready issue → assignment → bounded change → focused checks →
human review → merge or follow-up issue

Treat Ralph as a monitored queue. Stop when approval, ownership, policy, test status, scope, or usage limits are unclear.

When orchestration helps

Situation	Path
One small repair	Individual agent or manual work
Separate work with explicit interfaces	Coordinated team
Overlapping ownership or unclear design	Plan before implementation
Restricted path or unapproved tool	Manual workflow

Demonstration and lab

Inspect a prepared Squad team or initialize one through an approved path. Show the roster, routing rules, charter, and decision record. Assign one narrow issue and review its outcome.

Initialize a team, assign bounded work, use GitHub Issues, and monitor a small queue. One reviewed issue is sufficient.