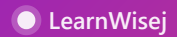


AI Coding Exercise

Build this module's EnterpriseOps sample with ChatGPT or Claude from a ready-made prompt that points the model at this module's specification, then review, run and extend what it gives you — including against our own reference build on GitHub.



The assistant is the fast pair of hands. You are still the architect.

An assistant can produce this module's sample in minutes. What it cannot do is decide whether the result is the right design for your application — that call stays with you. You supply the judgement: brief it properly, then check what comes back against what Module 12 just taught you.

What you are asking for

Create a deployment package for EnterpriseOps with environment-specific configuration, HealthCheck.json, smoke test checklist, sample container notes, reverse-proxy notes, sticky-session/load-balancer guidance, and rollback runbook.

The module asks for these deliverables, and the prompt below asks the assistant for exactly them:

- ✓ Deployment architecture diagram
- ✓ Environment configuration table
- ✓ HealthCheck.json
- ✓ Release runbook
- ✓ Rollback and smoke test checklist

Why it is shaped this way

Advanced Wisej.NET applications must move beyond developer machines into repeatable environments with configuration discipline, health checks, load balancing, rollback, and operational ownership.

These are the terms the assistant has to get right. If what comes back uses them loosely, it has not understood the module:

Term	What it means here
IIS	The Windows web server that hosts Wisej.NET applications in many enterprises, with application pools, recycling rules, and websocket support to configure.
Kestrel	The cross-platform ASP.NET Core web server that runs a Wisej.NET application directly, usually behind a reverse proxy in production.
NGINX/Apache reverse proxy	A front-end server that terminates TLS, forwards websocket traffic, and routes requests to one or more application instances.
Azure/AWS	Cloud platforms that host the application as app services, containers, or virtual machines, each with its own scaling and configuration model.
Docker	Packages the application and its runtime into one image, so the same build runs identically on a developer machine, a test server, and the cloud.
HealthCheck.json	The Wisej.NET health-check configuration that lets load balancers and orchestrators probe whether an instance is ready to serve sessions.
sticky sessions	Load-balancer affinity that routes every request from one user to the same server instance, which is required because session state lives in server memory.
CI/CD	Automated build, test, and deployment pipelines that turn every merge into a repeatable release instead of a manual, error-prone procedure.

Build it — pick your assistant

Both buttons open a new tab with the **same ready-made prompt** already filled in. The prompt points the model at this module's specification — a single Markdown file holding the lesson, the lab brief and the deliverables — so it works from the real material instead of guessing what Module 12 is about. You can open [module-12.md](#) yourself to see exactly what it will read.



Use ChatGPT

Opens [chatgpt.com](#) with this module's prompt loaded. Works with GPT-5 or Codex; any plan that can browse the web will fetch the spec.



Use Claude

Opens [claude.ai](#) with the same prompt loaded. Claude Code users can paste it into a terminal in an empty folder instead.



Send it as-is and you get a project, not a snippet

The prompt ends by asking for the whole solution as a single [.zip](#) with build-and-run steps. Download it, open the solution in Visual Studio, press F5 and EnterpriseOps comes up on [localhost](#). You need the .NET SDK and the [Wisej-4](#) NuGet package; everything else the prompt asks the assistant to write itself.

The prompt, in full — read it, then edit it if you want a different sample

I am working through Module 12 – "Cloud, Containers, Load Balancing, and Release Engineering" – of the LearnWisej Enterprise Wisej.NET: Architecture to Cloud course, and I want to build the module sample with you.

Start by reading the module specification. It is a single Markdown file holding the full lesson, the lab brief and the deliverables:

<https://learnwisej.com/assets/courses/azure-docker/specs/module-12.md>

Then build a complete Wisej.NET 4 project I can open in Visual Studio:

1. Project "EnterpriseOps", C#, net8.0 or later, NuGet package Wisej-4 4.1.x, Kestrel host calling `app.UseWisej()`.
2. Build what the specification's lab asks for: Create a deployment package for EnterpriseOps with environment-specific configuration, HealthCheck.json, smoke test checklist, sample container notes, reverse-proxy notes, sticky-session/load-balancer guidance, and rollback runbook.
3. Produce these deliverables, and tell me where each one lives in the solution:
 - Deployment architecture diagram
 - Environment configuration table
 - HealthCheck.json
 - Release runbook
 - Rollback and smoke test checklist
4. Follow the specification wherever it names a Wisej.NET class, property or event – use exactly that one. Where it leaves a choice open, tell me which API you picked and why.
5. Keep the server authoritative: state and validation live in .NET, and the browser renders and reports. Never move a decision into JavaScript because it is easier there.
6. Make the result demonstrable: I should be able to run it and see the behaviour this module is about, including what happens when something goes wrong.

Before you write any code, restate in your own words what you are going to build and where each piece will live, so I can correct the design while it is still cheap.

When the code is done, package the whole solution as a single .zip I can download, and give me the exact steps to build and run it.

Finally, answer these questions from the specification, using your own implementation as the evidence:

- What requires sticky sessions?
- Where are secrets stored?
- How do operations know a node is unhealthy?

Ask me about anything that is ambiguous before you start.

Then review what came back

Code that compiles is not yet code that is right. The interesting questions are design questions: is this the Wisej.NET control the job actually calls for, does it follow the lifecycle the framework gives you, is the authoritative state on the server rather than parked in the browser because that was convenient? Read the result as a reviewer, not as a customer.

This module gives you the checklist. Answer each one against the code you just received:

- ✓ What requires sticky sessions?
- ✓ Where are secrets stored?
- ✓ How do operations know a node is unhealthy?

Anything you had to correct is worth writing down. A short note of the conventions and decisions you settled on, pasted into the first message of your next session, is worth more than any single clever prompt.



We already built this one — compare yours with ours

The Module 12 reference implementation lives in the public samples repository. Build yours first, then open ours: the differences are the interesting part.



[Open the Module 12 sample on GitHub](#)

Or clone the whole set with `git clone https://github.com/iceteagroup/LearnWisej-Samples` and open `Enterprise Wisej.NET Course/Module 12`.



Our sample is a starting point, not a finished product

It was built the same way you are building yours — by prompt, then corrected — and it deliberately stops where the module stops. Expect stand-ins where production code would go, thin error handling and no tests. Treat that as an invitation: use what you learned in this module, plus the assistant, to push it further. Improving code you did not write is the skill this course is actually teaching.

Three prompts to take it further

Point your assistant at the project you just built — or at ours and try these. Each one is a review-and-extend exercise, not a rewrite.

- ✓ **Swap a piece without moving the seams.** *"Pick the part of this EnterpriseOps project that is most obviously a stand-in for something real — a fake data source, an in-memory store, a simplified service — and replace it with a production-shaped implementation. The contract either side of it must not change: same types, same calls, same behaviour under failure. Tell me what the real implementation forced you to handle that the stand-in did not."*
- ✓ **Make it survive a bad day.** *"Review this EnterpriseOps project for the failure modes it does not handle yet — bad or missing input, a dependency that is slow or unavailable, work arriving after the user navigated away, and two actions racing each other. For each one, tell me first whether it is a real risk in Wisej.NET 4 and why, and only then write the fix. Where you decide something needs no handling, say so and explain the reasoning rather than adding defensive code."*
- ✓ **Add the second case.** *"Extend this EnterpriseOps project with a second case that follows the same pattern as the first — another entity, screen or control of the same shape, wired the same way. Factor out what is genuinely shared into a base class or service, but only where it earns its place; two similar things do not always want an abstraction. Show me the diff and justify each thing you extracted."*



Carry it into the lab

The hands-on lab that closes this module asks for the same deliverables you just had the assistant produce. Use what you have here as the shape of your answer and the evidence behind it — not as the answer itself. The lab is graded on your reasoning, and that part has to be yours.