

# COCALC ONPREM

Alternative to Overleaf and JupyterHub

onprem.cocalc.com



CoCalc OnPrem is an enterprise grade commercial alternative to Overleaf

- ✓ Full real-time collaboration: edit the same files, see collaborators' cursors, chat with them.
- ✓ PythonTeX/SageTeX/Knitr: add R, Python or Sage code to generate parts of you document.
- ✓ AI Assistant: generate document templates and math formulas, fix LaTeX errors, ask for text improvements, and more.
- ✓ TimeTravel: our unique automatic version control and backup system complements Git and supports collaboration.
- ✓ Extensive testing in our production environment, bugs are promptly fixed, and your questions are addressed.

Powerful, customizable, and collaborative LaTeX editor

**TeX Input**  
Syntax highlighting, forward sync to PDF, support for Knitr, PythonTeX, SageTeX,...

**PDF Output**  
Updates quickly, inverse sync to source, view multiple parts at once,...

The screenshot displays the CoCalc OnPrem interface. On the left is a 'File Explorer' panel showing a project structure. The main area is split into three panes: a LaTeX source editor on the left with syntax highlighting, a PDF preview in the center showing a 'Damped Harmonic Oscillator' document with a plot, and a 'Side Chat' panel on the right. At the bottom, there is a 'Linux Terminal' and an 'Errors and Warnings' panel.

**File Explorer**  
Unfold "Explorer" to get an overview and access to all files in your project.

**Linux Terminal**  
If you need full control, expand a Linux Terminal.  
Support for Python, R, Git, and SageMath comes right out of the box.

**Side Chat**  
Click on "Chat" to open a chat panel on the side.  
Communicate with collaborators next to the document using @mentions.  
You can also ask an AI LLM chatbot for help, fix bugs, rewrite a section, write TeX code,...



Documentation

**Errors and Warnings** **Build Control: logs, customizable build command,...**

## Key Features

- ✓ Work in separate **projects**, flexible configurable workspaces.
- ✓ **Real-time collaboration** for all documents.
- ✓ **LaTeX Editor**, R/Quarto, Jupyter Notebooks, and Linux Terminal.
- ✓ Unified solution for **research, teaching, and publishing**.
- ✓ Deep integration with **AI tools (LLMs)**.

## Benefits

- ✓ Leverage **existing infrastructure** investments.
- ✓ **Scalable architecture** for performance.
- ✓ **Battle-tested services** for reliability.
- ✓ **Data sovereignty** to follow compliance rules.
- ✓ Also works inside a **secure VPN**.



OnPrem Homepage

## Technical Specifications

- ✓ Runs on a **Kubernetes cluster**.
- ✓ Uses a **file-storage** solution and **PostgreSQL**.
- ✓ Inherits **security and scalability** from our SaaS platform.
- ✓ Supports the full data science and scientific **Python** stack.
- ✓ Makes **LaTeX, Python, R/Knitr/Quarto, SageMath**, and more available.

LATEX



CoCalc OnPrem combines the collaborative power of CoCalc with the **security and control** of on-premises deployment. Thus making it the ideal solution for organizations with specific **infrastructure requirements** or **data privacy** concerns. Contact [help@cocalc.com](mailto:help@cocalc.com) to learn how to transform your organization's collaborative scientific computing capabilities.