

Senior Technical Specialist take-home exercise

Overview

This exercise evaluates your ability to work with REST APIs, understand permission models, and communicate technical solutions to business stakeholders. You will create a Confluence Cloud site and use its API to programmatically set up users, groups, spaces, and content with specific permission configurations.

Time Expectation

This exercise should take approximately 2-3 hours to complete. Please don't spend more than 4 hours total on this exercise.

Instructions

1. Environment Setup

Set up a new Atlassian Cloud site specifically for this exercise:

- Create a free Atlassian Cloud account at <https://www.atlassian.com/>
- Set up a new Confluence Cloud site
- Generate appropriate API credentials for programmatic access
- **Important:** Use a dedicated test site - do not use an existing production environment

2. Technical Implementation

Using the programming language of your choice and any libraries you wish, complete the following tasks using the Confluence REST API:

2.1 User Management

- Create **five user accounts**:
 - 1 user with administrator privileges
 - 4 users with standard user privileges
- Use meaningful usernames (e.g., `admin-user`, `user-1`, `user-2`, etc.)

2.2 Group Management

- Create a new group (choose an appropriate name)
- Add all 4 "standard" users to this group
- Do not add the administrator to this group

2.3 Space Configuration

Create **two new spaces** with the following permission structures:

Space 1: "Collaborative Workspace"

- Grant space administrator privileges to one of the 4 standard users
- Grant read/write access to the remaining 3 standard users
- The site administrator should retain their default access

Space 2: "Restricted Workspace"

- Grant space administrator access only to the site administrator
- Grant read-only permissions to all other users (the 4 standard users)

2.4 Content Creation

In the first space ("Collaborative Workspace"):

- Create one new page with the following elements:
 - A meaningful headline
 - Body content (lorem ipsum is acceptable)
 - At least one embedded image
- Apply page-level restrictions so that only **one specific user** can access this page

3. Documentation Requirements

Your solution must include clear documentation that addresses:

3.1 Code Attribution

Clearly indicate within your solution:

- Which sections were authored entirely by you
- Which sections were generated by LLMs (ChatGPT, Claude, Copilot, etc.)
- What modifications you made to any generated code to make it functional, and why
- Use comments, README sections, or separate documentation to make this attribution clear

Deliverables

Please be prepared to deliver:

1. **Source code** with clear attribution comments (a link to a repository is acceptable)
2. **Documentation** (README, setup instructions)
3. **Presentation of the solution** during your panel interview, you'll walk a technical and a business stakeholder through the solution

Tools and Resources

You are encouraged to use:

- Search engines (Google, Stack Overflow, etc.)
- AI assistants (ChatGPT, Claude, GitHub Copilot, etc.)
- Atlassian documentation and community forums
- Any programming libraries or frameworks you prefer

Remember: Clearly document what tools you used and how they contributed to your solution.

Evaluation Criteria

Your submission will be evaluated on two dimensions:

Technical Review (60%)

- **Code Quality:** Clean, readable, well-structured code
- **API Usage:** Correct implementation of Confluence REST API calls
- **Error Handling:** Appropriate handling of API errors and edge cases
- **Attribution:** Clear identification of authored vs. generated code, fixes needed to generated code, if any
- **Functionality:** All requirements successfully implemented

Business Communication (40%)

- **Presentation Skills:** Ability to explain the solution clearly to non-technical stakeholders
- **Problem Solving:** How you approached challenges and trade-offs
- **Documentation:** Quality of written explanations and setup instructions

Interview Process

During the panel interview, you will be asked to:

- Walk business stakeholders through your solution and its outcomes
- Explain the permission model you implemented
- Discuss any challenges you encountered and how you solved them
- Demonstrate the working solution

Questions?

If you have clarifying questions about the requirements, please reach out to klenihan@oxalis.io. We prefer that you make reasonable assumptions and document them rather than getting blocked on ambiguous requirements.

Good luck! We're excited to see your approach to this challenge.