

The Quiet Work: Establishing Control

User and Access Control Lab Conclusion

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The room is quieter now. The whiteboard has been erased again, except for faint shadows where earlier notes once lived. Pat sets the notebook down, pages dense with crossed-out assumptions and rewritten sentences.

"I had to fix the same thing three times," Pat says. "Not because the commands were hard. Because what I thought the permissions said wasn't what they actually allowed."

Morgan nods. "That's the point most people miss. The syntax is easy to learn. The model takes longer."

Jordan looks up from a terminal window. "I kept thinking in terms of files. But every mistake I made was really about identities."

"Exactly," Morgan says. "Permissions never apply to 'a file' in isolation. They apply to a user standing somewhere, belonging to specific groups, trying to take an action."

Morgan walks to the board and writes two short lines:

WHO IS ACTING FROM WHERE

"If anything felt confusing," Morgan continues, "it was usually because one of those facts was missing. You forgot which user you were testing as. You forgot which groups the user belonged to. Or you forgot that directories control paths, not just storage."

Pat nods slowly. "The directory execute bit was the biggest trap."

"It always is," Morgan says. "People assume 'execute' means running something. On directories, it means traversal. The system is checking whether you're allowed to pass through the door, not whether you're allowed to see what's inside."

Jordan flips a page back. "That mystery directory finally made it click. I could enter. I couldn't list. But if I knew the filename, I could read it."

Morgan points at the notebook. "That's the moment the mental model becomes concrete. A listing asks the directory to reveal its contents. Entering is asking permission to cross it. Those are separate questions, answered by separate bits."

Pat exhales. "I also noticed how often I expected permissions to work instead of proving it."

Morgan doesn't smile. "That expectation is the real risk. In production systems, nobody tests as the other user. They read ls output, make a guess, and move on."

Morgan pauses, then adds, "What you did here—switching identities, attempting access, watching it fail or succeed—that's how assumptions die."

Jordan leans back slightly. “And every time something failed, I had to rewrite the English sentence.”

“Good,” Morgan says. “If you couldn’t say it in plain language, the permission wasn’t finished. Access control only matters when you can explain who is trusted with what.”

Morgan caps the marker and steps away from the board. “If this exploration felt slower than expected, that’s normal. Precision always is. But the payoff is that you now know how to read permissions as decisions, not decorations.”

Pat closes the notebook again, this time without hesitation. “So the takeaway is simple.”

Morgan nods. “Permissions are promises. Groups are boundaries. Directories are gates. And testing is the only way to know which promises the system is actually keeping.”

The room settles into silence once more. Nothing remains of the exploration on the system itself. Only the understanding does.