Shared Team Folders

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Accessibility Notice

This document is also available in HTML format at:

Link: `https://aholdengouveia.name/LinuxAdmin/labexcercises/permissions.html`

The HTML version provides enhanced accessibility features including keyboard navigation, screen reader support, responsive design, dark mode support, and high contrast options.

Ticket

Ticket: ACME-3192
Requested by: Marketing and Development teams
Systems: Both report servers

Background

The Marketing and Development teams each need a shared folder. Each team should be able to work in its own folder, Development needs to read Marketing's files but not change them, and nobody else should get in. You will be working on the two servers you set up in the Server Setup lab: your Red Hat based server and your second server.

Learning Outcomes

By the end of this lab, you will be able to:

- Set file and directory ownership and permissions so each team gets the access it needs
- Configure shared folders, including group inheritance, hidden files, and symbolic links
- Test access as different users, and explain permissions in both octal and rwx form
- Find world-writable files and decide whether each one is safe

Requirements

1. Create a group for each team using users from the User Management lab, and create the two shared directories.
2. Set ownership and permissions so each team can read and write its own folder, Development can only read Marketing's folder, and everyone else is blocked.
3. Make sure new files created in a shared folder automatically belong to that team's group.
4. Create a hidden file in each folder, and a symbolic link from each user's home directory to their team's folder.
5. Find any world-writable files on the system, and decide whether each one should stay that way.

Acceptance Criteria

- If you had to look anything up to figure out a command, cite your source with a link to the reference.
- Access is tested by logging in as a user from each team and as an outsider, with screenshots showing a successful write, a read-only attempt, and a denied attempt.
- Your permissions are explained in both octal and rwx form.
- Every change is recorded in your change log from the Installs, Updates, and Documentation lab, with the date. For permission changes, record the permissions before and after. A sample change log showing the format is linked under Resources.

- Every terminal screenshot shows your prompt with your username and hostname, and either the output of `date` or a note beside the terminal with your name and the term. Hostnames must match your server inventory from the Server Setup lab.

Deliverables

Audience: another administrator who will maintain these folders after you. Assume technical knowledge but not expertise. Screenshots are helpful to go with your descriptions.

Make sure your deliverables include documents for BOTH servers, clearly labeled with what the document is and which server it's for.

- A permissions plan: who can do what in each folder, and why.
- The commands you used, with your test screenshots.
- Your list of world-writable files, and your decision on each one.
- Your updated change log.

Resources

Sample change log, showing the format to follow Link: `https://www.aholdengouveia.name/LinuxAdmin/labexcercises/SampleChangeLog.txt`

References, a video, a PowerPoint and some notes are available at my website Link: `https://www.aholdengouveia.name/LinuxAdmin/installs.html`