Multi-Site Apache Web Server Configuration for Dunder Mifflin

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This project involves setting up an Apache web server on Machine C in the DMZ to host multiple websites, including **Dunder Mifflin**, **Michael Scott Paper Company**, and **Schrute Farms**, as part of the migration from an ISP-hosted environment. The configuration ensures secure, scalable, and collaborative web hosting, adhering to specific organizational requirements.

Key Features

1. **Apache Installation and Multi-Site Hosting**:
    - Configures Apache to host three virtual websites:
        - www.dundermifflin.com
        - www.michaelscottpapercompany.com
        - www.schrutefarms.com
    - Supports access with or without the leading www (e.g., dundermifflin.com and www.dundermifflin.com).
2. **Site-Specific Permissions**:
    - Grants Pam Beesly, Kelly Kapoor, and Andy Bernard the ability to add and edit files on the Dunder Mifflin website without requiring elevated privileges.
    - Provides Dwight Schrute similar access to the Schrute Farms website.
3. **Document Root Configuration**:
    - Each website's files are stored under /var/www/html/<site-name>, where <site-name> matches the site name provided by the ISP.
4. **Backup Web Server**:
    - Configures Machine D as a backup web server for Machine C.
    - Implements a scheduled synchronization of web server files every 5 minutes using cron and rsync for redundancy.
5. **Disk Usage CGI Script**:
        - Creates a CGI script to report the number of files and disk space used by each hosted site.
        - Configured for access via http://www.dundermifflin.com/cgi-bin/diskusage without file extensions.
        - Protects the script with Apache Authorization, requiring the username webmaster and password dm23 (case-sensitive).
        - Restricts access to the script to the dundermifflin.com domain.
        - Mirrors the CGI script functionality to Machine D for backup.

This project integrates practical skills in web server configuration, file permissions management, automated backups, and secure web content access, ensuring the reliable operation of the Dunder Mifflin web infrastructure.