



Collegiate Cyber Defense Competitions

Inject Name Script to Protect Web Site Integrity

Inject ID CRYP08T

Description	<p>Develop a Python script that will protect the organization's web site(s) from defacement. Use a hash algorithm to detect changes to key files and alert via syslog of changes in content.</p> <p>Use the following plan/outline:</p> <ol style="list-style-type: none">1. Determine what to monitor, such as <code>/var/www/html</code>, <code>/etc/apache2/*.conf</code>, <code>/etc/apache2/sites-*/*</code>, <code>.htaccess</code>2. Develop a baseline using SHA-256 hash of every file.3. Monitor mode compares the current hash to the baseline hash.4. Log results.5. Secure the script, should be owned by root with immutable bit set.6. Automate by running every 5 minutes on a timer, or use cron.
Deliverables	<p>Respond with a business memo that provides the developed script with annotations that describe the functional sections. Provide evidence of a working script.</p>