

Linux Challenge 3 - Solution

Solution:

PHP was uninstalled from this system. This prevented the web server from processing the web application's PHP code into dynamic web pages.

To resolve the issue reinstall PHP and restart the web server so that the PHP-FPM service is running.

```
sudo dnf install -y php
sudo systemctl restart httpd
```

Any time you see a directory listing or source code in place of a web page for a web application, you can almost bet that the web server is not processing that source code. Look for missing PHP packages and modules, such as php and php-fpm for PHP applications. Even if all the modules are installed, make sure to restart the web server to ensure it is loading the modules.

Hints:

Here are some things you could have checked to discover this problem.

```
# Look at the web server log files.
sudo tail /var/log/httpd/error_log

# Check the PHP-FPM messages.
sudo tail /var/log/php-fpm/error.log

# Check the status of the PHP-FPM service.
sudo systemctl status php-fpm

# Check the system messages.
sudo grep -i php /var/log/messages
sudo tail /var/log/messages
sudo less /var/log/messages

# Check package manager activity.
dnf history

# Look at package manager log file.
sudo cat /var/log/dnf.log
```

```
# Check for installed PHP packages.
dnf list --installed | grep php

# Alternative method to check for installed PHP packages.
dnf list --installed '*php*'
```

You could have also created a PHP test page.

```
sudo nano /var/www/html/phpinfo.php
```

Place the following code in that document:

```
<?php
phpinfo();
?>
```

Visit the test page in your web browser: <http://10.23.45.25/phpinfo.php> If it just displayed the text, instead of a web page describing PHP settings, then Apache is not executing the PHP code.