incsub

Application Task

WPMU DEV

CampusPress

Edublogs

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Difficulty: easy

Q: How would we map ports in docker using cli command?

A: By default, when we create a container, it does not publish any of its ports to the outside world. To make a port available to services outside of Docker, or to Docker containers which are not connected to the container network, we use the --publish or -p flag.

Difficulty: easy

Q: What is the difference between docker stop and docker kill commands?

A: docker stop will attempt to do a graceful shutdown of the running container (SIGTERM signal) - docker kill will forcefully shut it down right away (SIGKILL signal).

Difficulty: easy

Q: Why should you always configure your code editor to save files without UTF-8 BOM?

Difficulty: easy

Q: What is the difference between action and filter WordPress hooks? Can you name some examples for both of them?

Difficulty: easy

Q: Where are the user files located in a WordPress installation? Can this be changed?

Difficulty: easy

Q: How would we generate a backup of a MySQL database?

Difficulty: medium

Q: What is the difference between write/read replicas in Amazon RDS?

Difficulty: medium

Q: Write an Ansible playbook to install WP CLI (https://make.wordpress.org/cli/handbook/guides/installing/). It should be available for all users, the executable should be writable by only root, and it should be in the systems $PATH.

Difficulty: hard

Q: What are some methods of detecting abnormal CPU/memory/bandwidth usage? This could be a result of a misbehaving process or D/DDOS attack.

PHP Task 1

Assume get_books() returns an array of books with the following format:

```
* Array
* (
*     [0] => Array
*         (
*             [title] => title1
*             [purchased_at] => 2020-05-13 09:49:54
*         )
*
*     [1] => Array
*         (
*             [title] => title2
*             [purchased_at] => 2020-07-16 04:12:01
*         )
*
*     [2] => Array
*         (
*             [title] => title3
*             [purchased_at] => 2020-03-11 10:32:47
*         )
*     ...
* )
*/

// What should we put here, so that we return the array of books sorted
by their purchase date in descending order?

return $books;
```

2. *The following code creates a file in the submitted path. What is wrong with it and how would you improve it?*

```php
$directory = isset($_POST['directory']) ? $_POST['directory'] :
'/root_dir';
$subdirectory = isset($_POST['subdirectory']) ? $_POST['subdirectory'] :
'/main_subdir';

$path = rtrim($directory, '/') . '/' . trim($subdirectory, '/');
$new_file = $path . '/' . 'new_file.txt';

// Create path if it doesn't exist.
exec("mkdir -p {$path}");

// Now create the file.
exec("touch {$new_file}");
```

3.

```php
<?php

// The following code returns the names of products from the local db. How
it can be improved?

$ids = get_ids();

/**

* Assume get_ids() returns an array of integer ids. The number of ids
provided can vary from 0 to 1000.

*/
```

```php
foreach ($ids as $id) {

        $result = $connection->query("SELECT `product_name` FROM `products`
WHERE `product_id` = " . $id);

        $products[] = $result->fetch_row();

}
```