

Instrukcja dodania notatek w Dashboards systemu op5 Monitor

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Autor:

Zespół EMCA S.A.

<https://it.emca.pl>



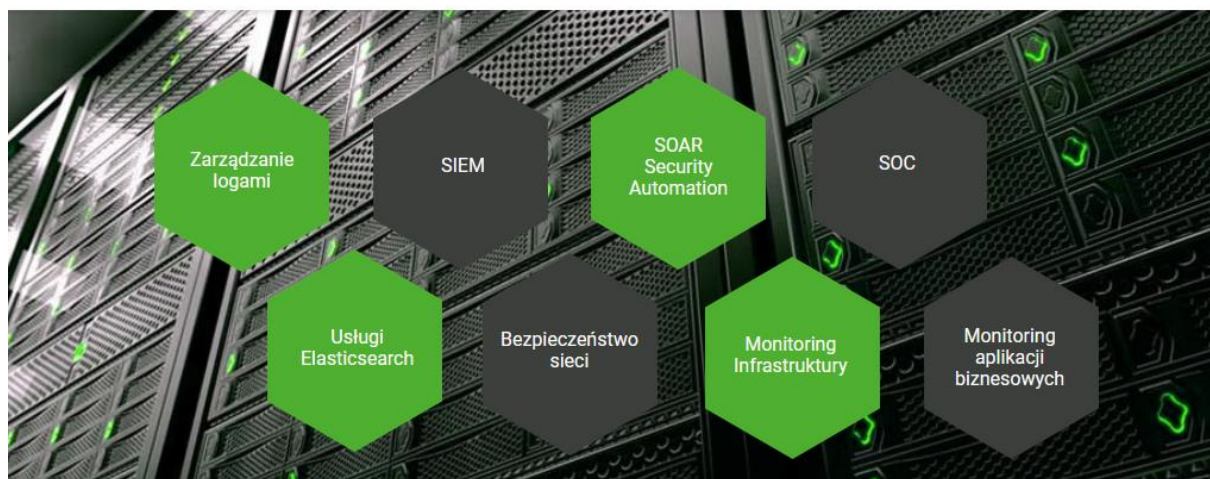
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1. Wgranie plików

- 1.1. Na uprawnieniach roota utworzyć katalog „notes” w: /var/www/html/ wraz z uprawnieniami grupy apache:

```
mkdir /var/www/html/notes  
chown :apache /var/www/html/notes
```

- 1.2. Do katalogu “notes” wgrać pliki: form.php, form2.php, issue.php, issue2.php, notes.sh, notes2.sh, util.php, util2.php

2. Wprowadzenie bazy danych notatek


- 2.1. Aby wprowadzić bazę danych notatek niezbędne jest dodanie nowej bazy o nazwie „notes”:

```
CREATE DATABASE notes;
```

- 2.2. Następnie należy utworzyć tabelę notes wraz z kolumnami:

```
CREATE TABLE `notes`.`notes` ( `register_date` DATETIME NULL DEFAULT NULL , `date` TIMESTAMP NULL DEFAULT CURRENT_TIMESTAMP , `use_id` INT NULL DEFAULT NULL AUTO_INCREMENT , `host_name` VARCHAR(150) NULL DEFAULT NULL , `service_desc` VARCHAR(150) NULL DEFAULT NULL , `note_del` VARCHAR(3) NOT NULL DEFAULT 'no' , `notes` VARCHAR(150) NULL DEFAULT NULL, PRIMARY KEY (`use_id`)) ENGINE = InnoDB;
```

3. Dodanie notatek dla hosta i service

- 3.1. Kliknąć na danym Dashboard na ikonę koła zębatego 
- 3.2. Pojawia się możliwość zmiany ustawień dotyczącego danego Dashboard'u.
- 3.3. W części „Columns” wkleić poniższy tekst:

```
"Issue" = "<iframe name=\"issue\" id=\"issue\" src=\"/notes/issue.php?hostname=\" +  
urlencode(host.name) + "&desc=" + urlencode(description) + "\" width=\"350\"  
height=\"52\" loading=\"lazy\"></iframe>", "Add Note <br/>(Max 150 znaków)" =  
<iframe name=\"dummyframe\" id=\"dummyframe\" style=\"display: none;\"  
loading=\"lazy\"></iframe><form method=\"POST\" action=\"/notes/form.php\"  
target=\"dummyframe\"><input type=\"hidden\" name=\"hostname\" value=\"\" +  
urlencode(host.name) + "\"><input type=\"hidden\" name=\"service_desc\" value=\"\" +  
urlencode(description) + "\"><textarea style=\"width: 150px; height: 15px;\"  
name=\"msg\"></textarea><br/><input type=\"submit\" name=\"submit\"  
value=\"Save\">&nbsp;<input type=\"submit\" name=\"delete\"  
value=\"Delete\"></form>"
```

Columns

```
all, "Issue Maximo" = "<iframe src=\"/notes/maximo.php?hostname=\" + urlencode(host.name) + "&desc=" + urlencode(description) + "\" width=\"350\" height=\"52\"></iframe>", "Add Note <br/>(Max 150 znaków)" = "<iframe name=\"dummyframe\" id=\"dummyframe\" style=\"display: none;\"></iframe><form method=\"POST\" action=\"/notes/form.php\" target=\"dummyframe\"><input type=\"hidden\" name=\"hostname\" value=\"\" + urlencode(host.name) + "\"><input type=\"hidden\" name=\"service_desc\" value=\"\" + urlencode(description) + "\"><textarea style=\"width: 150px; height: 15px;\" name=\"msg\"></textarea><br/><input type=\"submit\" name=\"submit\" value=\"Save\">&nbsp;<input type=\"hidden\" name=\"hostname\" value=\"\" + urlencode(host.name) + "\"><input type=\"hidden\" name=\"service_desc\" value=\"\" + urlencode(description) + "\"><input type=\"submit\" name=\"delete\" value=\"Delete\"></form>"
```

Pamiętać należy, aby przed składnią dodać przecinek (,). W przeciwnym przypadku pojawi się błąd na stronie. Powyżej przykład all i cała powyższa składnia.

3.4. Zapisać Dashboard. Po odświeżeniu Dashboardu pojawią się dwie nowe kolumny

Issue Maximo	Add Note (Max 150 znaków)
11111 666666 Zgłoszenie zostało przekazana do administratora Jan Kowalski	<input type="text"/> <input type="button" value="Save"/> <input type="button" value="Delete"/>

Uwaga: Pola „Issue Maximo” i „Add Note” można zmienić dowolnie na inną nazwę, pamiętając, aby znajdowały się na początku całej składni dotyczącej danej kolumny *„Issue Maximo”*.

3.5. Aby dodać notatkę w polu tekstowym, należy wpisać notatkę oraz kliknąć „Save”. (Pole tekstowe można samodzielnie rozciągnąć.).

3.6. Aby usunąć notatkę, należy wpisać całą notatkę oraz kliknąć „Delete”.

UWAGA: Kilukrotne kliknięcie „Save” spowoduje powielenie notatki.

SZCZEGÓLNA UWAGA: Notatka po kliknięciu „Save” zostaje w polu, jednak po odświeżeniu całej strony bądź Dashboardu (automatycznie) notatka zniknie.

4. Dodanie notatki dla hosta

W przypadku dodania notatki dla hosta procedura jest taka sama jak powyżej jednak w polu „Columns” należy dodać poniższy fragment kodu:

```
"Issue" = "<iframe src=\"/notes/issue2.php?hostname=\" + urlencode(name) + "\" width=\"350\" height=\"52\" loading=\"lazy\"></iframe>", "Add Note <br/>(Max 150 znaków)" = "<iframe name=\"dummyframe\" id=\"dummyframe\" style=\"display: none;\" loading=\"lazy\"></iframe><form method=\"POST\" action=\"/notes/form2.php\" target=\"dummyframe\"><input type=\"hidden\" name=\"hostname\" value=\"\" + urlencode(name) + "\"><textarea style=\"width: 150px; height: 15px;\" name=\"msg\"></textarea><br/><input type=\"submit\" name=\"submit\" value=\"Save\">&nbsp;<input type=\"submit\" name=\"delete\" value=\"Delete\"></form>"
```

5. Dodanie do crontab skryptu sprawdzającego dostępność hosta

Aby można było wykorzystać sprawdzanie status host i serwisu, niezbędne jest dodanie do crontab uruchamiania skryptu. W tym przypadku ustawione jest sprawdzanie co 10 minut.

```
#odpytanie bazy notes
```

```
*/10 * * * * /var/www/html/notes/notes.sh
```

```
*/10 * * * * /var/www/html/notes/notes2.sh
```

Pliki konfiguracyjne:

1. form.php

```
<?php
```

```
include("util.php");
```

```
#mysql_query("INSERT INTO `table` (`dateposted`) VALUES ('$date')");
```

```
if(isset($_POST['submit']))
```

```
{
```

```
    $message = $_POST['msg'];
```

```
    $host = $_POST['hostname'];
```

```
    $hostname = urldecode($host);
```

```
    $desc = $_POST['service_desc'];
```

```
    $service_desc = urldecode($desc);
```

```
    $filename = "cache-".str_replace(" ", "", $hostname)."-  
".str_replace("/", "=", $service_desc).".txt";
```

```
//DATABASE DETAILS
```

```
$host = "127.0.0.1";
```

```
$username = "notes";
```

```
$password = "tuvwstawhaslo";
```

```
$dbname = "notes";
```

```
//END DATABASE DETAILS
```

```

//CHECK CONNECTION

$conn = mysqli_connect($host, $username, $password, $dbname);

$conn->set_charset("utf8");

if (!$conn){
    die("Connection failed!" . mysqli_connect_error());
}

//END CHECK CONNECTION

//CHECK IF EXISTS AND UPDATE OR INSERT

$sql_check = "Select 1 from notes where host_name='$hostname' and
service_desc='$service_desc' and note_del='no' limit 1;";

$sql_check_exists = mysqli_query($conn, $sql_check);

# echo ("sql=|".$sql_check_exists->num_rows."|");

if($sql_check_exists->num_rows == 1) {
    $sql_update = "UPDATE notes SET notes = '$message' WHERE
host_name='$hostname' and service_desc='$service_desc' and note_del='no'";
    mysqli_query($conn, $sql_update);
    $rows=get_notes($conn, $hostname, $service_desc);
    #$filename = "cache-$hostname-$service_desc.txt";
    file_put_contents($filename, serialize(json_encode($rows)));
} else {
    $sql = "INSERT INTO notes (register_date, host_name, service_desc,
notes) VALUES (CURRENT_TIMESTAMP,'$hostname','$service_desc','$message)";
    mysqli_query($conn, $sql);
    $rows=get_notes($conn, $hostname, $service_desc);

```

```

        #filename = "cache-$hostname-$service_desc.txt";
        file_put_contents($filename, serialize(json_encode($rows)));
    }

//END IF EXISTS AND UPDATE OR INSERT

//CONNECTION CLOSED
mysqli_close($conn);

//END CONNECTION CLOSED
}

if(isset($_POST['delete']))
{
    $host = $_POST['hostname'];
    $hostname = urldecode($host);
    $desc = $_POST['service_desc'];
    $service_desc = urldecode($desc);

    $filename = "cache-".str_replace(" ", "", $hostname)."-
".str_replace("/", "=", $service_desc).".txt";

//DATABASE DETAILS

$host = "127.0.0.1";
$username = "notes";
$password = "tuvwstawhaslo";
$dbname = "notes";

//END DATABASE DETAILS

//create connection

$conn = mysqli_connect($host, $username, $password, $dbname);

```

```

$conn->set_charset("utf8");

//check connection if it is working or not
if (!$conn)
{
    die("Connection failed!" . mysqli_connect_error());
}

//This below line is a code to Send form entries to database
$hostname = mysqli_real_escape_string($conn, $hostname);
$service_desc = mysqli_real_escape_string($conn, $service_desc);

$sql = "UPDATE notes SET note_del = 'yes' WHERE host_name='$hostname'
and service_desc='$service_desc'";

//fire query to save entries and check it with if statement
$rs = mysqli_query($conn, $sql);
if ($rs)
{
    echo "Successfully saved";
}

$rows=get_notes($conn, $hostname, $service_desc);
#$filename = "cache-$hostname-$service_desc.txt";
file_put_contents($filename, serialize(json_encode($rows)));
//connection closed.
mysqli_close($conn);
}
?>

```

2. form2.php

```

<?php
include("util2.php");

```

```

#mysql_query("INSERT INTO `table` (`dateposted`) VALUES ('$date')");
if(isset($_POST['submit']))
{
    $message = $_POST['msg'];
    $host = $_POST['hostname'];
    $hostname = urldecode($host);
    $filename = "cache-$hostname.txt";

    //DATABASE DETAILS
    $host = "127.0.0.1";
    $username = "notes";
    $password = "tuwstawhaslo";
    $dbname = "notes";
    //END DATABASE DETAILS

    //CHECK CONNECTION
    $conn = mysqli_connect($host, $username, $password, $dbname);
    $conn->set_charset("utf8");
    if (!$conn){
        die("Connection failed!" . mysqli_connect_error());
    }
    //END CHECK CONNECTION

    //CHECK IF EXISTS AND UPDATE OR INSERT

    $sql_check = "Select 1 from notes where host_name='$hostname' and
service_desc=" and note_del='no' limit 1;";
    $sql_check_exists = mysqli_query($conn, $sql_check);
    # echo ("sql=".$sql_check_exists->num_rows."|");

    if($sql_check_exists->num_rows == 1) {
        $sql_update = "UPDATE notes SET notes = '$message' WHERE
host_name='$hostname' and service_desc=" and note_del='no'";
        mysqli_query($conn, $sql_update);
        $rows=get_notes($conn, $hostname);
        file_put_contents($filename, serialize(json_encode($rows)));
    } else {
        $sql = "INSERT INTO notes (register_date,host_name, notes) VALUES
(CURRENT_TIMESTAMP, '$hostname', '$message')";
        mysqli_query($conn, $sql);
        $rows=get_notes($conn, $hostname);
        # $filename = "cache-$hostname-$service_desc.txt";
        file_put_contents($filename, serialize(json_encode($rows)));
    }
}

```



```

//END IF EXISTS AND UPDATE OR INSERT

//CONNECTION CLOSED
mysqli_close($conn);
//END CONNECTION CLOSED
}
if(isset($_POST['delete']))
{
    $host = $_POST['hostname'];
    $hostname = urldecode($host);
    $filename = "cache-$hostname.txt";

//DATABASE DETAILS
    $host = "127.0.0.1";
    $username = "notes";
    $password = "tuwstawhaslo";
    $dbname = "notes";
//END DATABASE DETAILS

//create connection
    $conn = mysqli_connect($host, $username, $password, $dbname);
    $conn->set_charset("utf8");
//check connection if it is working or not
    if (!$conn)
    {
        die("Connection failed!" . mysqli_connect_error());
    }
//This below line is a code to Send form entries to database
    $hostname = mysqli_real_escape_string($conn, $hostname);
    $sql = "UPDATE notes SET note_del = 'yes' WHERE
host_name='$hostname' and service_desc='";

//fire query to save entries and check it with if statement
    $rs = mysqli_query($conn, $sql);
    if($rs)
    {
        echo "Successfully saved";
    }
    $rows=get_notes($conn, $hostname);
    #$filename = "cache-$hostname-$service_desc.txt";
    file_put_contents($filename, serialize(json_encode($rows)));
//connection closed.
    mysqli_close($conn);
}

```

?>

3. issue.php

```
<!DOCTYPE html>
<html>
  <head>
  </head>
  <body>
    <?php
      include("util.php");
      $hostname = $_GET['hostname'];
      $service_desc = $_GET['desc'];
      $search = array(' ', '/');
      $replace = array("", '=');
      $filename = "cache-".str_replace(" ", "", $hostname)."-
".str_replace("/", "=", $service_desc).".txt";
      #echo ("|" . getcwd() . "|-|" . filemtime($filename) . "|-|" . (time()-1*3600) . "|");
      if (!file_exists($filename) || (file_exists($filename)&&filemtime($filename) <
time()-1*3600)) {

          #$date = date('Y-m-d H:i:s');
          #$hostname = $_GET['hostname'];
          #$service_desc = $_GET['desc'];
          #echo ("host=|$hostname| desc=|$service_desc|<br/>\n");
          $conn = mysqli_connect("p:$host", "$username", "$password",
"$dbname");
          $conn->set_charset("utf8");
          // CHECK CONNECTION
          if ($conn->connect_error) {
              die("Connection failed: " . $conn->connect_error);
          }
          // END CHECK CONNECTION

          // SHOW NOTES
          $rows=get_notes($conn, $hostname, $service_desc);
          file_put_contents($filename, serialize(json_encode($rows)));
          $data=$rows;
      } else {
          $data = json_decode(unserialize(file_get_contents($filename)));
      }
      $value = "";
      if (count($data) > 0) {
          $data = array_shift($data);
```

```

        if (is_object($data)) $data = get_object_vars($data);
        if (isset($data["notes"])) $value=$data["notes"];
    }
    echo($value);
    // END SHOW NOTES
?>
</body>
</html>

```

4. issue2.php

```

<!DOCTYPE html>
<html>
  <head>
  </head>
  <body>
    <?php
      #echo '<script type="text/javascript">asyncFuction()</script>';
      include("util2.php");
      $hostname = $_GET['hostname'];
      $filename = "cache-$hostname.txt";
      #echo ("|.getcwd()."|-.filemtime($filename)."|-.(time()-1*3600)."|");
      if (!file_exists($filename) || (file_exists($filename)&&filemtime($filename) <
time()-1*3600)) {

          $hostname = $_GET['hostname'];
          #echo ("host=|$hostname| desc=|$service_desc|<br/>\n");
          $conn = mysqli_connect("p:$host", "$username", "$password",
"$dbname");
          $conn->set_charset("utf8");
          // CHECK CONNECTION
          if ($conn->connect_error) {
              die("Connection failed: " . $conn->connect_error);
          }
          // END CHECK CONNECTION

          // SHOW NOTES
          $rows=get_notes($conn, $hostname);
          file_put_contents($filename, serialize(json_encode($rows)));
          $data=$rows;
      } else {
          $data = json_decode(unserialize(file_get_contents($filename)));
      }
      $value = "";
    }
  }

```

```

        if (count($data) > 0) {
            $data = array_shift($data);
            if (is_object($data)) $data = get_object_vars($data);
            if (isset($data["notes"])) $value=$data["notes"];
        }
        #swoole_async_readfile(string $filename, callable $callback): bool
        echo($value);
        // END SHOW NOTES
    ?>
</body>
</html>

```

5. util.php

```

<?php
    // DATABASE DETAILS
    $host = "127.0.0.1";
    $username = "notes";
    $password = "tuwstawhaslo";
    $dbname = "notes";
    // END DATABASE DETAILS
    function get_notes($conn, $hostname, $service_desc) {
        // SHOW NOTES
        if ($result = $conn->query("SELECT notes FROM notes WHERE
host_name='$hostname' AND service_desc='$service_desc' and note_del='no'"))
        {
            $rows = array();
            if($row = $result->fetch_assoc()) {
                $rows[] = $row;
            }
        }
        return $rows;
    }
?>

```

6. util2.php

```

<?php
    // DATABASE DETAILS
    $host = "127.0.0.1";
    $username = "notes";
    $password = "tuwstawhaslo";
    $dbname = "notes";
    // END DATABASE DETAILS
    function get_notes($conn, $hostname) {
        // SHOW NOTES

```

```

    if ($result = $conn->query("SELECT notes FROM notes WHERE
host_name='$hostname' AND service_desc=" and note_del='no'")) {
        $rows = array();
        if($row = $result->fetch_assoc()) {
            $rows[] = $row;
        }
    }
    return $rows;
}
?>

```

7. notes.sh

```

#!/bin/bash
host=127.0.0.1
user=notes
password=tuwstahaslo
db=notes
min_id=$(mysql --host $host -u $user --password=$password -D $db -N -e
'SELECT MIN(use_id) from notes')
max_id=$(mysql --host $host -u $user --password=$password -D $db -N -e
'SELECT MAX(use_id) from notes')
#echo $min_id
#echo $max_id
directory="/var/www/html/notes"

#echo $ac_id

for ((i=min_id; $i<=$max_id; i++));
do
    #echo $i
    hostname=$(mysql --host $host -u $user --password=$password -D $db -N -e
"SELECT host_name FROM notes WHERE use_id='$i' and note_del='no' and
date < date_add(now(),interval -2 hour)")
    service_desc=$(mysql --host $host -u $user --password=$password -D $db -N
-e "SELECT service_desc FROM notes WHERE use_id='$i' and note_del='no'
and date < date_add(now(),interval -2 hour)")
    while [[ "$service_desc" != "" ]];
    do
        status=$(mon query ls services -c last_state host_name="$hostname"
description="$service_desc")
        #echo $hostname
        #echo $service_desc
        #echo $status
        #zero=0
    done
done

```

```

if [[ "$status" -eq "0" || "$status" -eq "" ]];
then
    mysql --host $host -u $user --password=$password -D $db -N -e
"UPDATE notes SET note_del = 'yes' WHERE host_name='$hostname' and
service_desc='$service_desc'"
    service=$(echo "$service_desc" | tr '/' '=')
    file=$directory/cache-$hostname-$service.txt
    rm -f "$file"
else
    mysql --host $host --user $user --password=$password -D $db -
N -e "UPDATE notes SET date = CURRENT_TIMESTAMP WHERE
host_name='$hostname' and service_desc='$service_desc'"
    fi
break
done
done
mysql --host $host -u $user --password=$password -D $db -N -e "DELETE FROM
notes WHERE note_del='yes' and date < date_add(now(),interval -3 hour)"
mysql --host $host -u $user --password=$password -D $db -N -e "DELETE FROM
notes WHERE date < date_add(now(),interval -6 month)"
mysql --host $host -u $user --password=$password -D $db -N -e "DELETE FROM
notes WHERE host_name='undefined'"

```

8. notes2.sh

```
#!/bin/bash
```

```
host=127.0.0.1
```

```
user=notes
```

```
password=tuwstawhaslo
```

```
db=notes
```

```
min_id=$(mysql --host $host -u $user --password=$password -D $db -N -e "SELECT
MIN(use_id) from notes WHERE service_desc='')"
```

```
max_id=$(mysql --host $host -u $user --password=$password -D $db -N -e "SELECT
MAX(use_id) from notes WHERE service_desc='')"
```

```
#echo $min_id
```

```
#echo $max_id
```

```
directory="/var/www/html/notes"
```

```
for ((i=min_id; $i<=$max_id; i++));
do
    #echo $i

    hostname=$(mysql --host $host -u $user --password=$password -D $db -N -e
"SELECT host_name FROM notes WHERE use_id='$i' and note_del='no' and
service_desc=" and date < date_add(now(),interval -2 hour)")

    status=$(mon query ls hosts -c last_state name="$hostname")

    #echo $hostname

    #echo $status

    #zero=0

    if [[ "$status" -eq "0" || "$status" -eq "" ]];
    then

        mysql --host $host -u $user --password=$password -D $db -N -e "UPDATE
notes SET note_del = 'yes' WHERE host_name='$hostname' and service_desc="

        file=$directory/cache-$hostname.txt

        #echo $file

        rm -f "$file"

    else

        mysql --host $host -u $user --password=$password -D $db -N -e "UPDATE
notes SET date = CURRENT_TIMESTAMP WHERE host_name='$hostname' and
service_desc="

    fi
done
```