

Curs 3

2025/2026

Programarea aplicațiilor web

PAW

- Programarea aplicațiilor web
 - An V RC
 - 1.5C/1L/1P

Program

- An V
 - Saptamana 1
 - Luni 17-20 Curs (Intro/HTML/CSS)
 - Saptamanile **2-8**
 - Luni 16:30-18 Curs
 - Luni **18-20 Laborator**
 - Saptamanile **9-14**
 - Luni 16:30-18 Curs
 - Luni **18-20 Proiect**

Orar

- <https://orar.etti.tuiasi.ro/> : C->16:30-18, L/P -> 18

Grupa: 55RC Profesor: Alege un profesor Sala: Alege o sala



FACULTATEA DE ELECTRONICA, TELECOMUNICATII SI TEHNOLOGIA INFORMATIEI

55RC

11111111

	1	2	3	4	5	6	7	8	9	10	11	12
	8:00 - 8:50	9:00 - 9:50	10:00 - 10:50	11:00 - 11:50	12:00 - 12:50	13:00 - 13:50	14:00 - 14:50	15:00 - 15:50	16:00 - 16:50	17:00 - 17:50	18:00 - 18:50	19:00 - 19:50
L										PAW (C)		Damian R.
Ma									RCALSC (C)	PAW (L)	RCALSC (L)	Damian R.
Mi									SRDS (L)			
J												TEFO (L)
V												TEFO (L)
Sâ												

Nota

- An V
 - 33% E
 - 66% Aplicatii
 - 33% L
 - 33% P

Documentatie

- <https://rf-opto.etti.tuiasi.ro> + WWW

The screenshot shows a web browser window with the URL `rf-opto.etti.tuiasi.ro/master_it.php`. The page features a dark blue navigation bar with links for Main, Courses, Master (highlighted), Staff, Research, Students, and Admin. Below this is a secondary navigation bar with links for Radiocommunication Systems, Microwave IC, Satellite Comm., Web Design (highlighted), and Ethics. The main content area lists several resources: Online Exam manual (pdf, 2.56 MB, en), Manual examen on-line (pdf, 2.65 MB, ro), Simulare Examen (video) (mp4, 65.12 MB, ro), and Exam Simulation (video) (mp4, 41.96 MB, en). The primary section is titled "Web Applications Design" and details the "Course: PAW (2024-2025)". It lists the Course Coordinator as Assoc.P. Dr. Radu-Florin Damian, Code as RC.IA.108, Discipline Type as DIMS; Required, Synthesis, Credits as 5, and Enrollment Year as 5, Sem. 10. Under "Activities", it provides details for Course, Laboratory, Project, and Online Exams. The "Evaluation" section specifies the exam type and grading breakdown: A (33.33%, Test/Colloquium), B (33.33%, Seminary/Laboratory/Project Activity), and D (33.33%, Homework/Specialty papers). The "Previous years" section includes a horizontal list of years: 2023-2024, 2022-2023, 2021-2022, 2020-2021, 2019-2020, and a "More years..." link.

Online Exam manual (pdf, 2.56 MB, en, 🇺🇸)

Manual examen on-line (pdf, 2.65 MB, ro, 🇷🇴)

Simulare Examen (video) (mp4, 65.12 MB, ro, 🇷🇴)

Exam Simulation (video) (mp4, 41.96 MB, en, 🇺🇸)

Web Applications Design

Course: PAW (2024-2025)

Course Coordinator: Assoc.P. Dr. Radu-Florin Damian
Code: RC.IA.108
Discipline Type: DIMS; Required, Synthesis
Credits: 5
Enrollment Year: 5, **Sem.** 10

Activities

Course: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1.5 Hours/Week, Specialization Section, Timetable:
Laboratory: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Specialization Section, Timetable:
Project: Instructor: Assoc.P. Dr. Radu-Florin Damian, 1 Hours/Week, Specialization Section, Timetable:
Online Exams: Currently active: None

Evaluation

Type: **Exam**

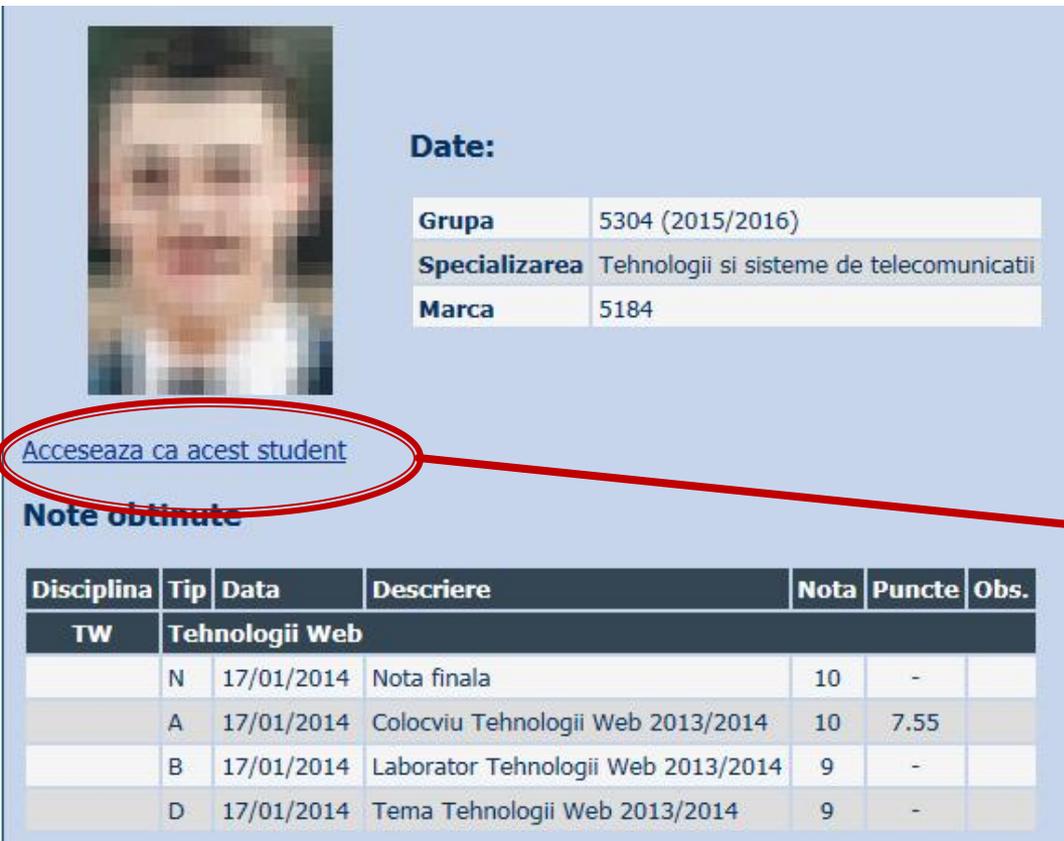
A: 33.33%, (Test/Colloquium)
B: 33.33%, (Seminary/Laboratory/Project Activity)
D: 33.33%, (Homework/Specialty papers)

Previous years

2023-2024	2022-2023	2021-2022	2020-2021	2019-2020	More years...
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Acces

- Personalizat (parola), Generic (email)



A student profile page with a photo of a man on the left. To the right, under the heading "Date:", is a table with student details. Below the table is a link "Acceseaza ca acest student" circled in red. At the bottom is a table titled "Note obtinute" showing exam results for "Tehnologii Web".

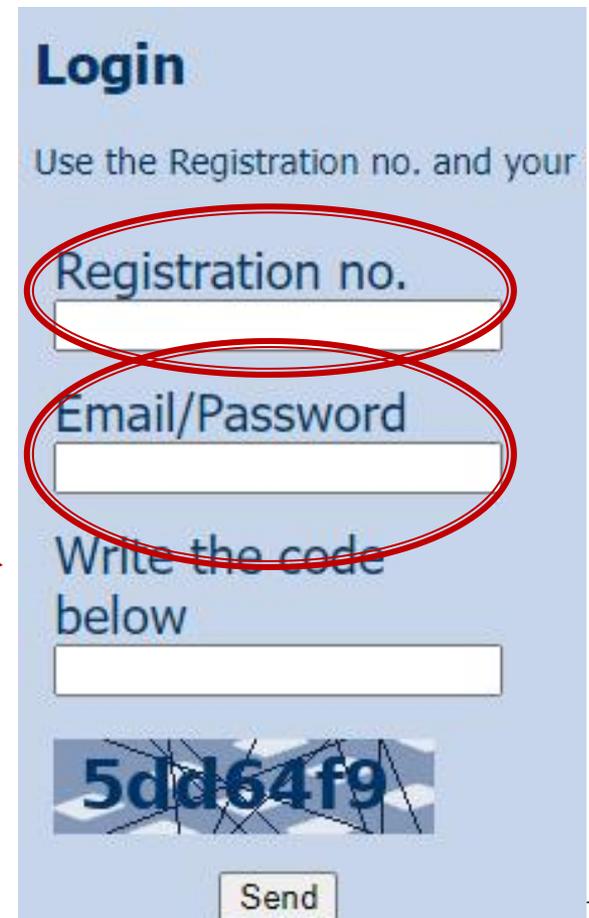
Date:

Grupa	5304 (2015/2016)
Specializarea	Tehnologii si sisteme de telecomunicatii
Marca	5184

[Acceseaza ca acest student](#)

Note obtinute

Disciplina	Tip	Data	Descriere	Nota	Puncte	Obs.
TW			Tehnologii Web			
N		17/01/2014	Nota finala	10	-	
A		17/01/2014	Colocviu Tehnologii Web 2013/2014	10	7.55	
B		17/01/2014	Laborator Tehnologii Web 2013/2014	9	-	
D		17/01/2014	Tema Tehnologii Web 2013/2014	9	-	



A login form titled "Login" with the instruction "Use the Registration no. and your". It contains three input fields: "Registration no.", "Email/Password", and "Write the code below". The first two fields are circled in red. Below the third field is a CAPTCHA image showing the code "5dd64f9". A "Send" button is at the bottom.

Login

Use the Registration no. and your

Registration no.

Email/Password

Write the code below

5dd64f9

Send

Online – Numar matricol (marca)

- accesul la **examene** necesita **parola** primita prin email

The password is communicated during the lectures. It is necessary to

Password

Registration no.

Name of the student

Proposed email 1

Proposed email 2

Write the code below

6fb6953

 **RF-OPTO** 

English | Romana |

[Main](#) [Courses](#) [Master](#) [Staff](#) [Research](#) [Students](#)

[Login](#) [Tutoring](#)

Login

Use the Registration no. and your email or the password received by email

Registration no.

Email/Password

Write the code below

5dd64f9

Parola

■ primita prin email

Important message from RF-OPTO Inbox x



Radu-Florin Damian

to me, POPESCU

Romanian > English [Translate message](#)



Laboratorul de Microunde si Optoelectronica
Facultatea de Electronica, Telecomunicatii si Tehnologia Informatiei
Universitatea Tehnica "Gh. Asachi" Iasi

In atentie: POPESCU GOPO ION

Parola pentru a accesa examenele pe server-ul **rf-opto** este
Parola: [REDACTED]

Identificati-va pe [server](#), cu parola, cat mai rapid, pentru confirmare.

Memorati acest mesaj intr-un loc sigur, pentru utilizare ulterioara

Attention: POPESCU GOPO ION

The password to access the exams on the **rf-opto** server is
Password: [REDACTED]

Login to the [server](#), with this password, as soon as possible, for confirmation.

Save this message in a safe place for later use

[Reply](#)

[Reply all](#)

[Forward](#)

Subject	Correspondents
Important message from RF-OPTO	POPESCU GOPO ION
Validation of MD/CR exam from 02/05/2020	[REDACTED]
[REDACTED]	[REDACTED]

From: Me <rdamian@etti.tuiasi.ro>
Subject: Important message from RF-OPTO
To: [REDACTED]
Cc: Me <rdamian@etti.tuiasi.ro>



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Attention: POPESCU GOPO ION

The password to access the exams on the **rf-opto** server is
Password: [REDACTED]

Login to the [server](#), with this password, as soon as possible, for confirmation.

Save this message in a safe place for later use

Manual examen online

- Aplicatia de examen online utilizata la:
 - ~~curs (prezenta)~~
 - laborator -> Activitate suplimentara
 - proiect -> Alocare/predare proiect
 - ~~examen~~

Materials

Other data

[Manual examen on-line](#) (pdf, 2.65 MB, ro, 🇷🇴)

[Simulare Examen](#) (video). (mp4, 65.12 MB, ro, 🇷🇴)

Microwave Devices and Circuits (Englis

Examen online

- intotdeauna **contratimp**
 - perioada lunga (proiect, activitate suplimentara)
 - ~~perioada scurta (teste: 15min, examen: 2h)~~

The screenshot shows a web interface for an online exam system. At the top, there is a navigation menu with options: Start, Didactic, Master, Colectiv, Cercetare, and **Studenti**. Below this, there are sub-menus: Note, Lista Studenti, **Examene**, and Fotografii. A horizontal timeline of exam stages is displayed, with the first stage, 'Anunț 17:28 (29/04/2020)', highlighted with a red circle. Other stages include 'Material suport 17:30 (29/04/2020)', 'Subiecte 17:32 (29/04/2020)', 'Rezultate 17:35 (29/04/2020)', 'Finalizare 17:45 (29/04/2020)', and 'Confirmare 17:45 (30/04/2020)'. To the right of the timeline, a red circle highlights a message: 'Urmatorul interval de timp in. 01 m 08 s Reincarca acum'. Below the timeline, the 'Anunț' section contains the text: 'In acest examen se verifica diverse actiuni ale studentilor pentru examen'. Underneath, the 'Ora pe server' section states: 'Toate examenele sunt bazate pe fusul orar al server-ului (ar putea sa fie diferit de timpul local). Pentru referinta ora pe server este acum: 29/04/2020 17:28:51', with the timestamp circled in red.

Anunț 17:28 (29/04/2020)	Material suport 17:30 (29/04/2020)	Subiecte 17:32 (29/04/2020)	Rezultate 17:35 (29/04/2020)	Finalizare 17:45 (29/04/2020)	Confirmare 17:45 (30/04/2020)
-----------------------------	---------------------------------------	--------------------------------	---------------------------------	----------------------------------	----------------------------------

Urmatorul interval de timp in.
01 m 08 s
[Reincarca acum](#)

Anunț

In acest examen se verifica diverse actiuni ale studentilor pentru examen

Ora pe server

Toate examenele sunt bazate pe fusul orar al server-ului (ar putea sa fie diferit de timpul local). Pentru referinta ora pe server este acum:
29/04/2020 17:28:51

Nota

- An V
 - 33% E
 - 33% L
 - 33% P
- Laborator - Prezenta
 - 1pz = 1p ($p > 5 \leftrightarrow$ Curs)
- Examen
 - Prezenta la curs: 3pz = 0.5p
 - Asemanator cu materia de **proiect**
- Activitate suplimentara
 - Dupa terminarea activitatii la laborator
 - +2p la E/L

Examen

- probleme
- fiecare student are subiect **propriu**
- toate materialele permise
- tehnica de calcul **nu** este necesara dar este permisa

Examen

- Oricare din temele de **proiect** (sau asemenea) poate constitui una din problemele de examen
 - se va cere realizarea planului / structurii logice a aplicatiei
- Se **poate** cere scrierea unui **cod** pentru realizarea anumitor operatii, fara necesitatea corectitudinii tehnice absolute (“;”, nume corect al functiilor, parametri functie etc.)
- Se poate cere interpretarea unui cod php/MySql cu identificarea efectului

BIBLIOGRAFIE

- **“Am mai facut odata ceva asemanator”**
- Internet
 - www.php.net
 - www.mysql.com
 - www.w3c.org
 - www.google.com
- rf-opto.etti.tuiasi.ro
 - cereti acces! (prin adresa de email/nepersonalizat)

Curs

- Curs strict orientat spre laborator/proiect
 - se predă ceea ce se folosește în aceeași zi la laborator/proiect
 - curs exact înainte de laborator/proiect
- Orientat spre practică
 - 90% practică
 - 10% teorie
- Memorarea lui inutilă la examen
- Prezentă
 - 3pz = 0.5p Examen (maxim 2p)

Proiect

- Teme in **echipa**: 2/3 membri
- Evaluare **individuala**
- Variabile ca dificultate (cu note diferite)

PROIECT (preconizat – S9 final)

- Tema de nota **8**
 - Tema unica pentru fiecare student
 - Baza de date cu care se lucreaza contine minim **20** de inregistrari in tabelul cel mai "voluminos"
- Tema de nota **9**
 - Conditiiile de la tema de nota 8 **si in plus**
 - Necesitatea conlucrarii intre **2 studenti** cu doua teme "pereche"
 - Se accepta ca un student sa realizeze ambele puncte
 - Numar **minim** de pagini dinamice (php+mysql) in aplicatie **4 = 2 X 2**
 - Baza de date cu care se lucreaza contine minim **50** de inregistrari in tabelul cel mai "voluminos"

PROIECT (preconizat – S9 final)

- Tema de nota **10**
 - Condițiile de la tema de nota 9 **si in plus**
 - Necesitatea conlucrării între 2 studenti cu teme “pereche”
 - Tema se preda/trimite cu macar 1 zi înainte **sustinerii** ei
 - Numar **minim** de pagini dinamice (php+mysql) in aplicatie **6 = 3 X 2**
 - Baza de date cu care se lucreaza sa contina minim 100 de inregistrari in tabelul cel mai “voluminos”.

PROIECT (preconizat – S9 final)

- Tema de nota **10+**
 - Condițiile de la tema de nota 10 **si in plus**
 - Numar **minim** de pagini dinamice (php+mysql) in aplicatie **8 = 4 X 2**
 - Baza de date cu care se lucreaza contine minim **300** de inregistrari in tabelul cel mai "voluminos"
 - Necesitatea investigarii posibilitatilor de **imbunatatire** a aplicatiei si adaugarii de functionalitate (**obligatoriu**)
 - nota individuala la proiect va depinde intr-o mica masura (in limita a 1p) de nota minima a colegilor din echipa
 - **+1p la nota de examen**

PROIECT (preconizat – Sg final)

- In caz de necesitate, pentru completarea echipei cadrul didactic poate fi membru al echipelor (9/10/10+). Conditii:
 - metoda de comunicare in echipa sa fie prin email sau direct
 - latentă de raspuns: ~ 1 zi
 - reactiv
 - nota implicita 10 (😊)
 - nu lucreaza noaptea, si in special nu in noaptea dinaintea predarii (😊)
- dezavantaj asumat: "spion" in echipa

PROIECT (preconizat – S9 final)

- Tema bonus (>5, in general **offline**)
 - Conditiiile de la tema de nota 10+ **si in plus:**
 - **3 studenti/CD**
 - Baza de date cu care se lucreaza contine minim **500** de inregistrari in tabelul cel mai "voluminos"
 - Numar **minim** de pagini dinamice (php+mysql) in aplicatie **15 = 5 X 3**
 - Tema care face apel la controlul **sesiunii** client/server
 - Necesitatea utilizarii **Javascript** in **aplicatie** (aplicatie libera dar cu efect tehnic nu estetic)
 - Forma paginii controlata dual prin CSS, desktop/phone
 - Facilitati in ceea ce priveste nota (**DACA** toate celelalte conditii sunt indeplinite), la alegere:
 - prezenta la laborator: N → P = **66%**, L = **0%**, E = 33%
 - **+2p la nota de examen**

PROIECT (preconizat – S9 final)

- proiectul se **sustine individual** (oral si practic)
- fiecare membru al unei echipe (la teme de nota 9 si 10) trebuie sa sustina in aceeasi zi proiectul
- nota individuala la proiect va depinde intr-o mica masura (in limita a 1p) de nota medie a colegilor din echipa (numai la teme de 10+)
 - $N-\min(E)=1 \rightarrow -0\text{ p}$
 - $N-\min(E)=2 \rightarrow -0.5\text{ p}$
 - $N-\min(E)=3 \rightarrow -1\text{ p}$

Notare proiect 2020/2021

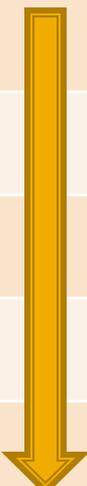
- 1p – functionalitate ✓
- 1p – aplicatia ruleaza pe server-ul CentOS/Ubuntu ✓
- numar de pagini dinamice ✓
- numar de inregistrari in baza de date ✓
- 1p – planul aplicatiei ✓
- 2p – prezentare in Teams a proiectului ✓

Notare 2026 (preconizat – S9 final)

- 1p – **functionalitate**
- 1p – mutarea **personala** a site-ului (restaurare backup + setare server) pe un server de referinta CentOS/Ubuntu/**Debian**
- 1p – cunoasterea **codului**
 - raspunsul la intrebari de genul: "unde ai facut aceasta", "ce face acest cod"
- 1p – **planul aplicatiei**
- Teme "de nota 10,10+"
 - Initiativa. Investigarea posibilitatilor de imbunatatire
 - Explicatii relativ la functionarea unei anumite secvente de cod
 - Utilizare sesiune, Javascript, **CSS media**

Notare 2026 (preconizat – S9 final)

- numar de pagini dinamice ✓
- numar de inregistrari in baza de date ✓
 - se verifica indeplinirea conditiilor corespunzatoare si se realizeaza **de-clasificarea** temei pana cand **ambele** conditii sunt indeplinite

Tema de nota ...	Pagini	Inregistrari
 bonus	$15 = 5 \times 3$	500
10+	$8 = 4 \times 2$	300
10	$6 = 3 \times 2$	100
9	$4 = 2 \times 2$	50
8	$1 = 1 \times 1$	20

Exemplu

- 1. Galerie de imagini in care imaginile sunt ordonate dupa categorii.

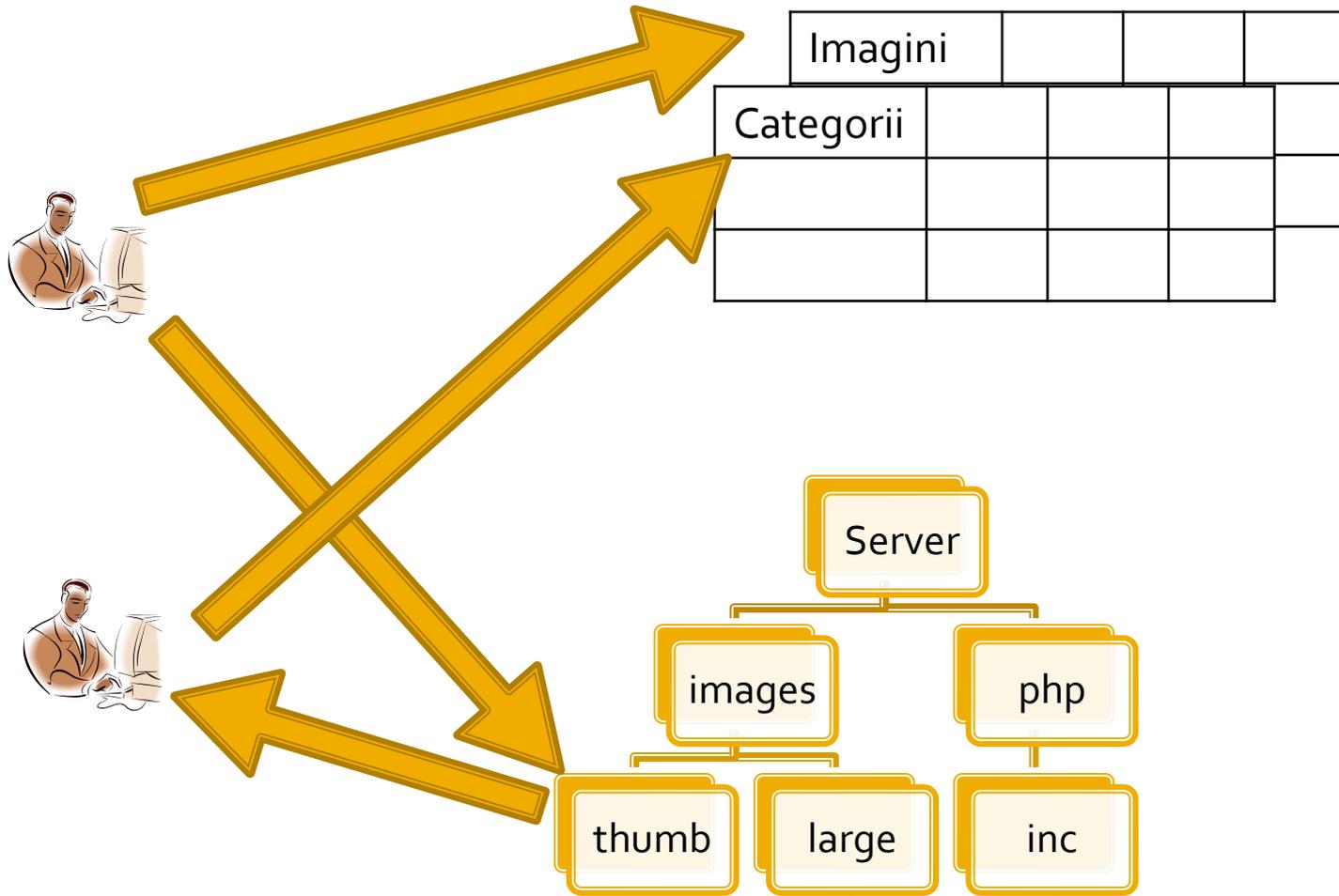


a. aplicatia pentru adaugarea de categorii si afisare a imaginilor (cu alegerea prealabila a categoriei si afisarea listei de imagini format mic)



b. aplicatia pentru adaugare de imaginilor (cu alegerea prealabila a categoriei si generarea prealabila a imaginii format mic)

Exemplu



Documentatie

- RF-OPTO
 - <https://rf-opto.etti.tuiasi.ro>
- Fotografie
 - ~~de trimis prin email: examen online~~
 - necesara la laborator/curs
 - +1p ex. (S3), +0.5p ex (S5)
- Adresa de email
 - necesara pentru accesul la zonele sensibile de pe server
 - **obligatorie** pentru activitatea **online**
- Exemplu de teme si specificatii detaliate pentru proiect

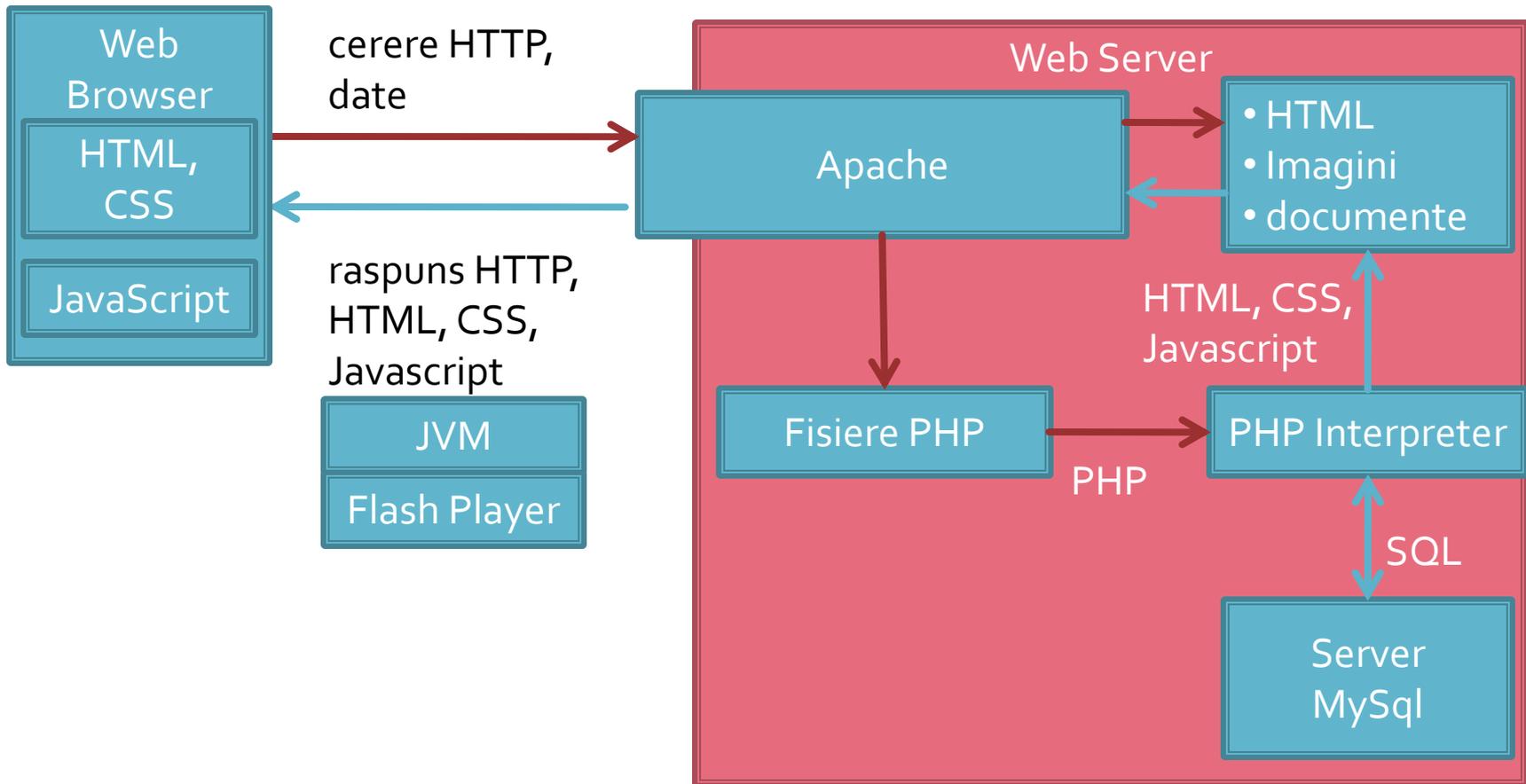
CURS

I.	HTML si XHTML (recapitulare)	1 oră
II	CSS	2 ore
III	Baze de date, punct de vedere practic	1 oră
IV	Limbajul de interogare SQL	4 ore
V	PHP - HyperText Preprocessor	8 ore
VI	XML - Extended Mark-up Language si aplicatii	4 ore
VII	Conlucrare intre PHP/MySql, PHP/XML, Javascript/HTML	2 ore
VIII	Exemple de aplicatii	6 ore
	Total	28 ore

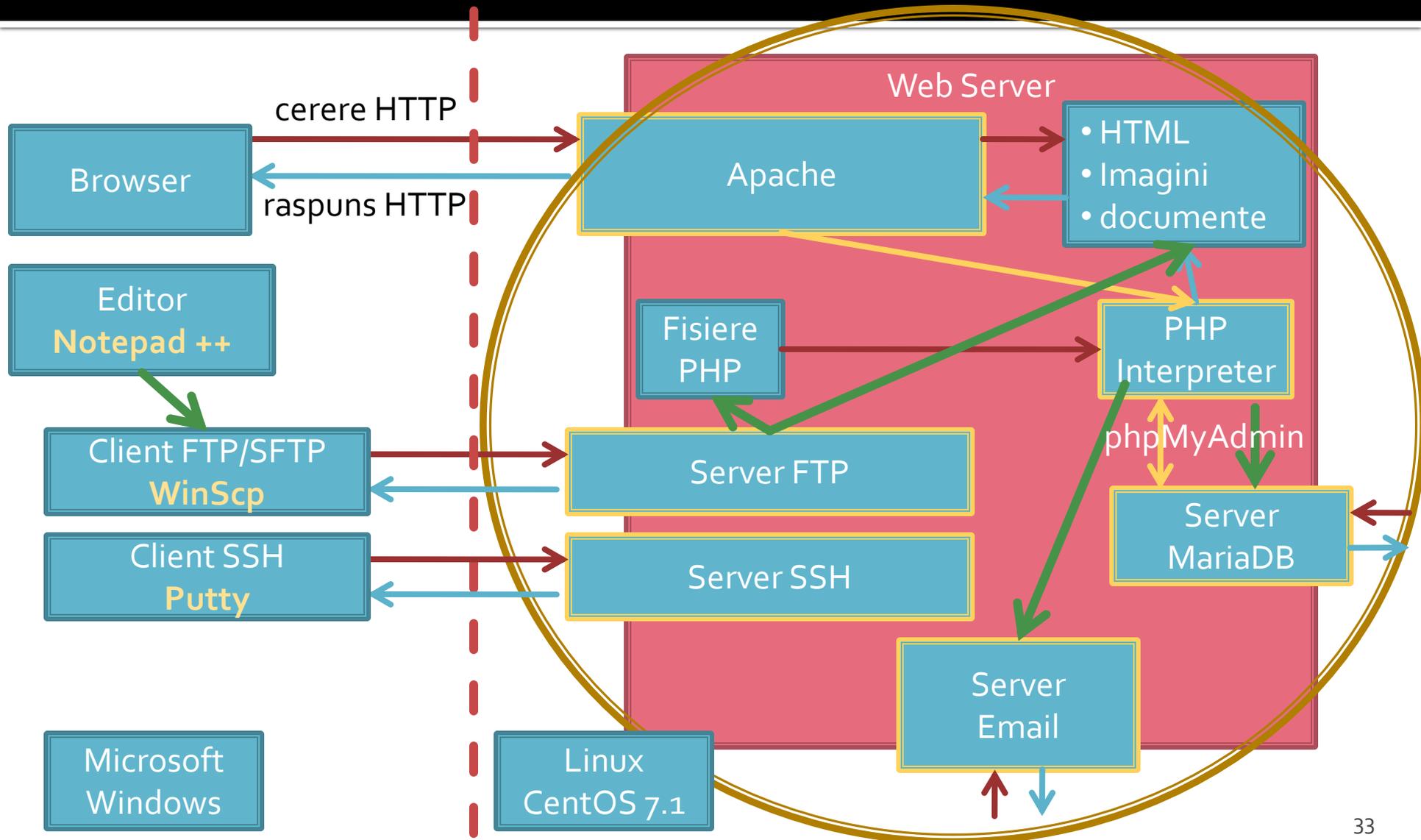
LABORATOR

I.	Implementarea unui sistem de dezvoltare a aplicatiilor Web, instalare PHP, MySql, Apache si legaturile dintre ele	2 ore
II	Design web avansat folosind CSS	2 ore
III	Interogarea unei baze de date. Exercitii SQL	2 ore
IV	Utilizare PHP I	2 ore
V	Utilizare PHP II	2 ore
VI	Utilizare PHP pentru accesul la o baza de date	2 ore
VII	Aplicatie distribuita complexa	2 ore
	Total	14 ore

Structura tipica W(L)AMP

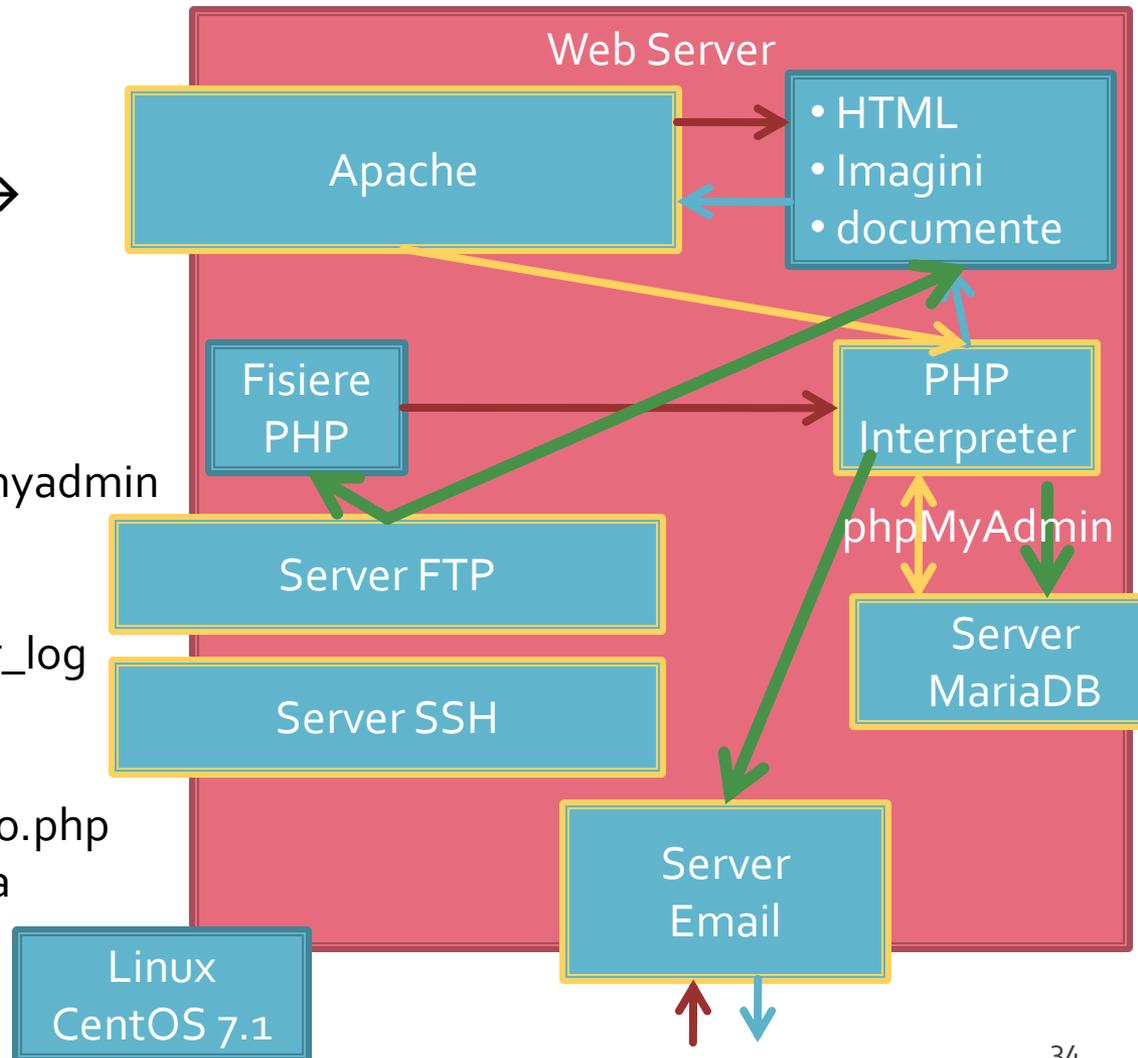


LAMP



Utilizare LAMP

1. login → root:masterrc
2. ifconfig → 192.168.30.5
3. putty.exe → 192.168.30.5 → SSH → root:masterrc (remote login)
4. [alte comenzi linux dorite]
5. FTP → Winscp → SFTP → student:masterrc@192.168.30.5
6. MySql → http://192.168.30.5/phpmyadmin → root:masterrc
7. Apache Error Log →
 - 7a. putty → nano /var/log/httpd/error_log
 - 7b. http://192.168.30.5/logfile.php (nonstandard)
8. PHP info → http://192.168.30.5/info.php
9. daca serviciul DHCP duce la oprirea Apache: `service httpd restart`



HTML (+ CSS)

```
E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Win
logfile.php lista_lot.php
539 <?php }?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Conti
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
544 <p class="title">Loturi active</p>
545 <?php
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554 $total=mysql_num_rows($result);
555 $row = mysql_fetch_assoc($result);
556 }
557 if ($total>0)
558 {
559 <table align="center">
560 <tr class="lista_titlu">
561 <td align="center">Nr.</td>
562 <td>Numar</td>
563 <td>Data</td>
564 <td>Nr. pui</td>
565 <td>Gr. pui</td>
566 <td>Nr. pui morti</td>
567 <td>Gr. pui morti</td>
568 <td>Ferma</td>
569 <td>Documente</td>
570 <td>Creat</td>
571 <td>Comenzi</td>
572 </tr>
573 <?php $index=1;
574 do { ?>
575 <tr class="<?php if ($index%2) echo "lista_in
576 <td align="center"><?php echo $index; ?>&nbsp;</td>
577 <td><?php echo $row['Numar']; ?>&nbsp;</td>
578 <td><?php echo date("d/m/Y", strtotime($row['Data']));
579 <td><?php echo $row['Pui']; ?>&nbsp;</td>
580 <td><?php echo $row['Greutate']; ?>&nbsp;</td>
581 <td><?php echo $row['Pui_Morti']; ?>&nbsp;</td>
582 <td><?php echo $row['Greutate_Morti']; ?>&nbsp;</td>
583 <td><?php echo $row['Ferma']; ?>&nbsp;</td>
584 <td><?php echo $row['Documente']; ?>&nbsp;</td>
```

```
<table align="center">
<tr class="lista_titlu">
<td align="center">Nr.</td>
<td>Numar</td>
<td>Data</td>
<td>Nr. pui</td>
<td>Gr. pui</td>
```

HTML + PHP

E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

logfile.php lista_lot.php

```
539 <?php }?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
544 <p class="title">Loturi active</p>
545 <?php
546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
547 FROM `lot` AS l
548 LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
554 $total=mysql_num_rows($result);
555 $row = mysql_fetch_assoc($result);
556 }
557 if ($total>0)
558 {?>
559 <table align="center">
560 <tr class="lista_titlu">
561 <td align="center">Nr.</td>
562 <td>Numar</td>
563 <td>Data</td>
564 <td>Nr. pui</td>
565 <td>Gr. pui</td>
566 <td>Nr. pui morti</td>
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571 <td>Comenzi</td>
572 </tr>
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```

```
<tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_p";
<td align="center"><?php echo $index; ?>&nbsp;?></td>
```

HTML + PHP + SQL

```
E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
logfile.php lista_lot.php
539 <?php ?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
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546 $query = "SELECT l.*, c.`nume_user` AS `user_creat`
547 FROM `lot` AS l
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549 WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
550 $result = mysql_query($query);
551 $total=0;
552 if ($result && (mysql_num_rows($result) > 0))
553 {
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555 $row = mysql_fetch_assoc($result);
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FROM `lot` AS l
LEFT JOIN `users` AS c ON (l.`User`=c.`id_user`)
WHERE l.`Activ` <> 0 ORDER BY l.`ID_LOT` DESC";
$result = mysql_query($query);
$total=0;
if ($result && (mysql_num_rows($result) > 0))
{
$total=mysql_num_rows($result);
$row = mysql_fetch_assoc($result);
}
```

Capitolul II

CSS

CSS vs. HTML

```
<!DOCTYPE html PUBLIC
<html>
<!-- created 2003-12-12 -->
<head>
  <title>sample</title>
</head>
<body>
  <p>Voluptatem accusantium
  totam rem aperiam.</p>
</body>
</html>
```

HTML

```
h1 { color: white;
      background: orange;
      border: 1px solid bla
      padding: 0 0 0 0;
      font-weight: bold;
}
/* begin: seaside-theme */

body {
  background-color:white;
  color:black;
  font-family:Arial,sans-serif;
  margin: 0 4px 0 0;
  border: 12px solid;
}
```

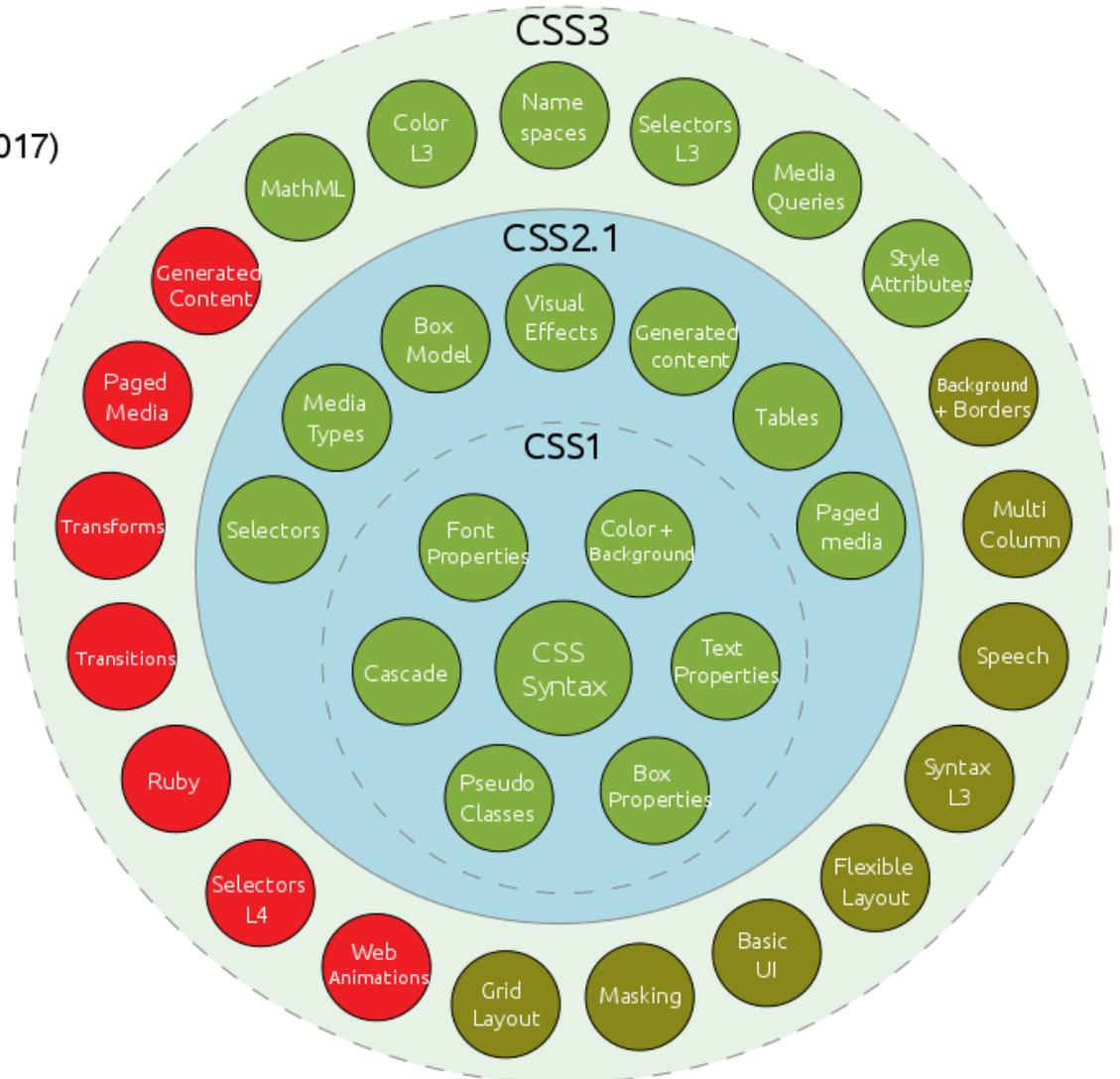
CSS

CSS3

CSS3

Taxonomy & Status (September 2017)

- W3C Recommendation
- Candidate Recommendation
- Last Call
- Working Draft
- Obsolete or inactive



■ CSS Browser Support Reference

CSS Reference With Browser Support

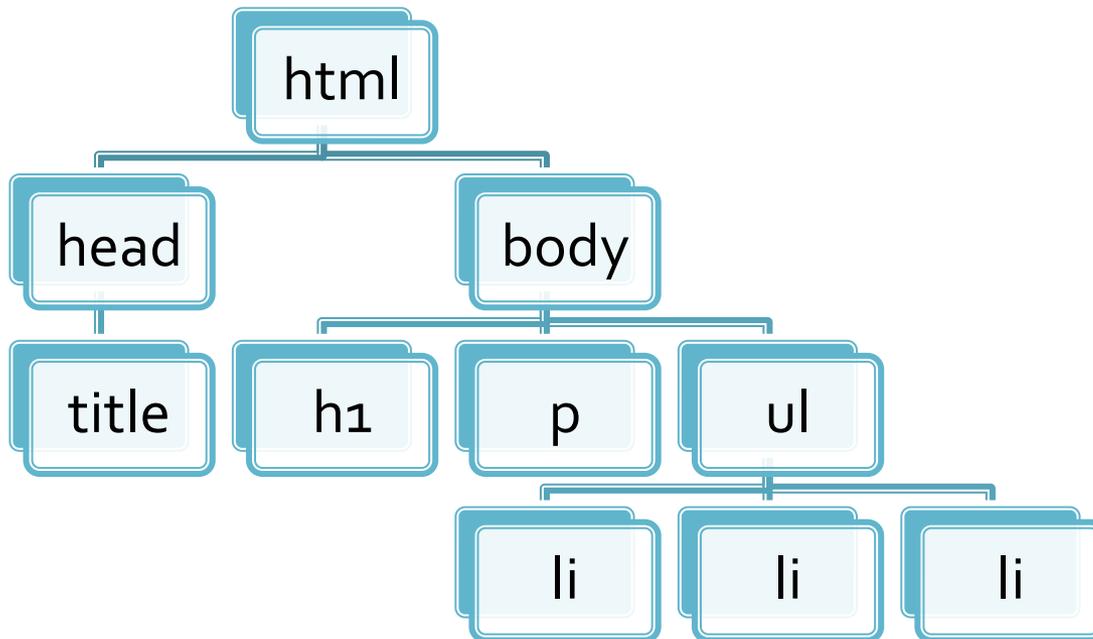
The table below lists all CSS properties and how each property is supported in the different browsers:

The number to the right of the browser icon indicates in which browser version the property was first supported.

Property	Edge	Firefox	Chrome	Safari	Opera
A					
accent-color	 93	 92	 93	 15.4	 79
align-content	 16	 52	 57	 10.1	 44
align-items	 16	 52	 57	 10.1	 44
align-self	 16	 52	 57	 10.1	 44
all	 79	 27	 37	 9.1	 24
animation	 10	 16	 43	 9	 30
animation-delay	 10	 16	 43	 9	 30
animation-direction	 10	 16	 43	 9	 30

Relatia parinte copil si mostenire

- Orice document are o structura de tip graf in care elementele sunt introduse in interiorul altor elemente (DOM)



```
<html>
  <title>pagina mea</title>
  <body>
    <h1>Compozitori:</h1>
    <p>
    <ul>
      <li> elvis costello
      <li> johannes brahms
      <li> georges brassens
    </ul>
  </body>
</html>
```

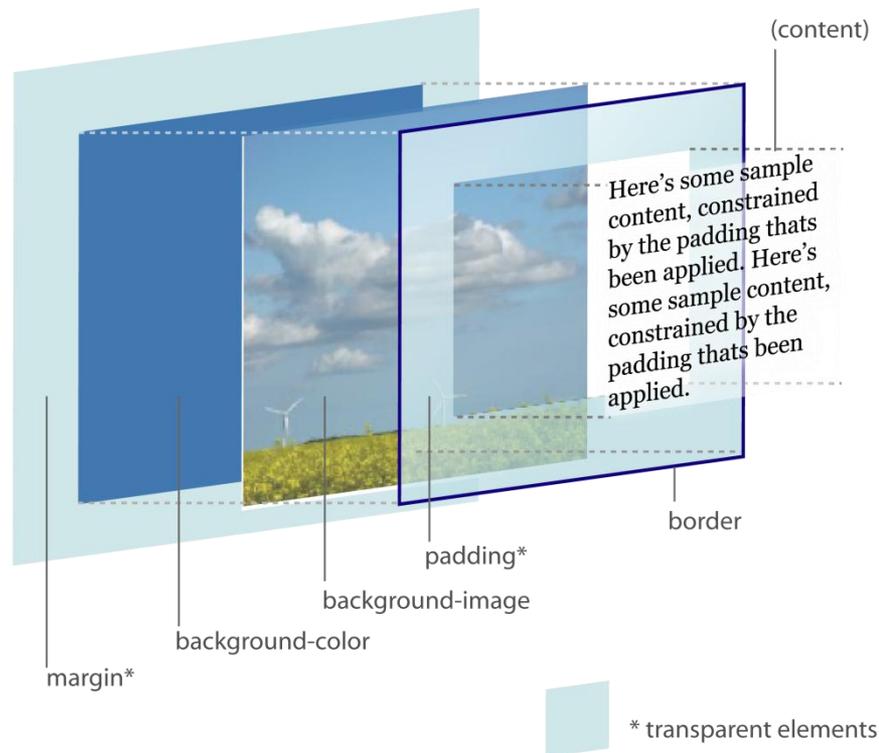
Dimensiunile in CSS

- relativ la dimensiunea implicita in browser
 - xx-small, x-small, small, medium, large, x-large, xx-large (implicit medium)
- relativ la dimensiunea din blocul parinte
 - smaller, larger
- absolute
 - in, cm, mm, pt (1 point = 1/72 in), pc (1 pica = 12 pt)
- relative
 - em, ex – relative la dimensiunea in blocul parinte
 - un cuvânt cu dimensiunea 2em = dimensiunea de 2 ori mai mare decat a textului din acel paragraf
 - precizie mai buna, valori fractionare permise (1.25em, 0.85em etc.)
 - px (pixeli) dependent de dispozitivul de afisare

CSS Box Model

- Orientat in jurul conceptului de "cutie" – Box model

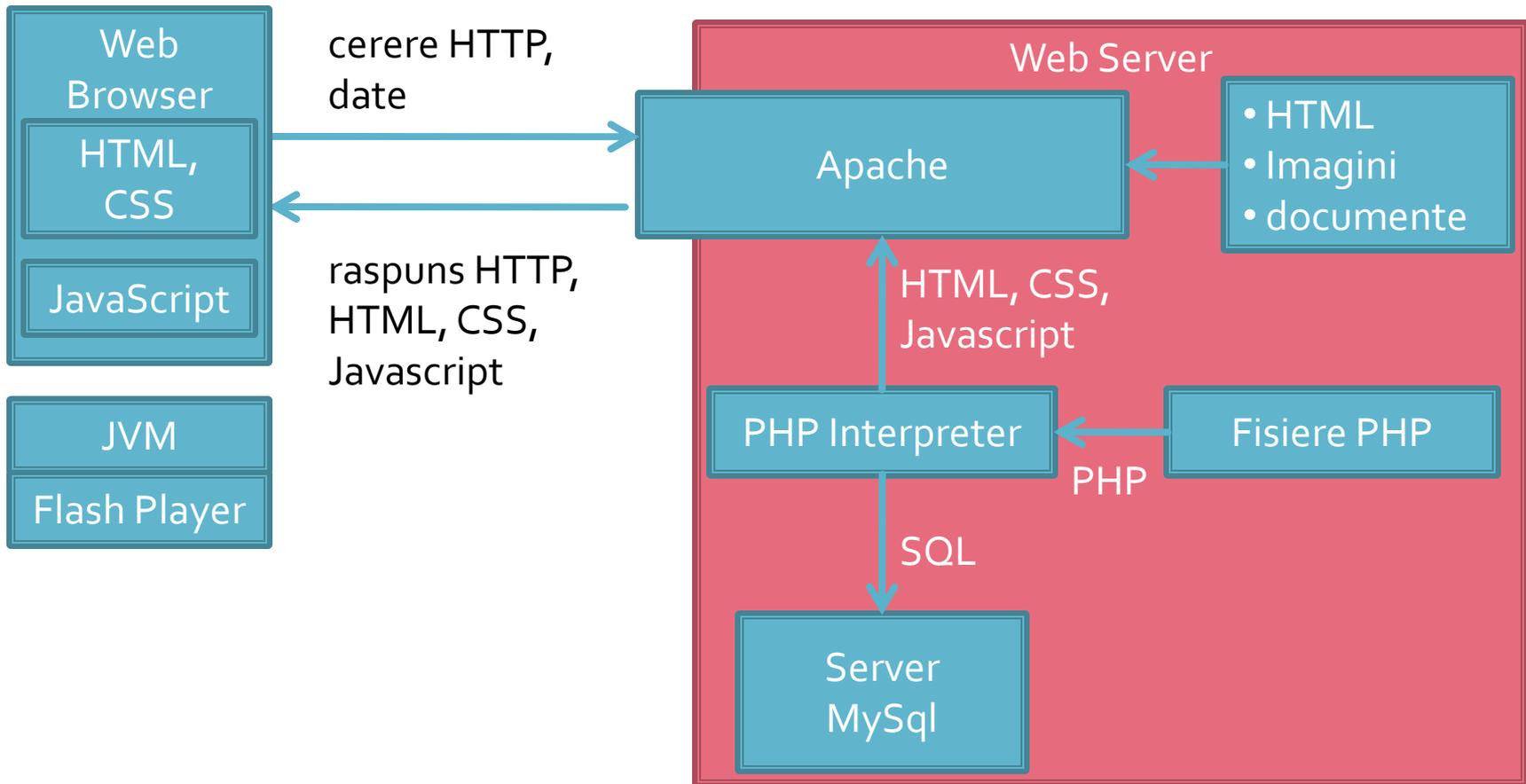
THE CSS BOX MODEL HIERARCHY



PHP

- Hypertext PreProcessor - acronim recursiv
 - initial – Personal Home Page / Form Interpreter
 - 1995 – 1.0
- versiune curenta: 8.5.3
 - 2026-02-12
- versiune curenta: 8.4.18
 - 2026-02-12
- limbaj de scripting de uz general,
- rulare pe server (**server-side scripting**)
- open source

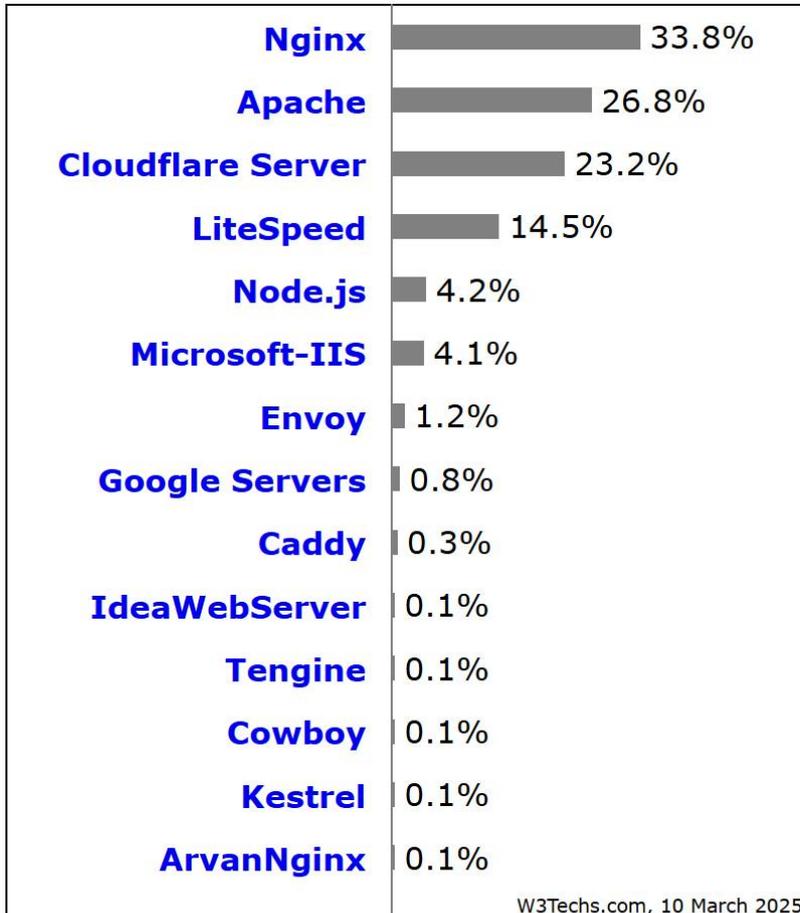
Client/Server Scripting



client
side
scripting

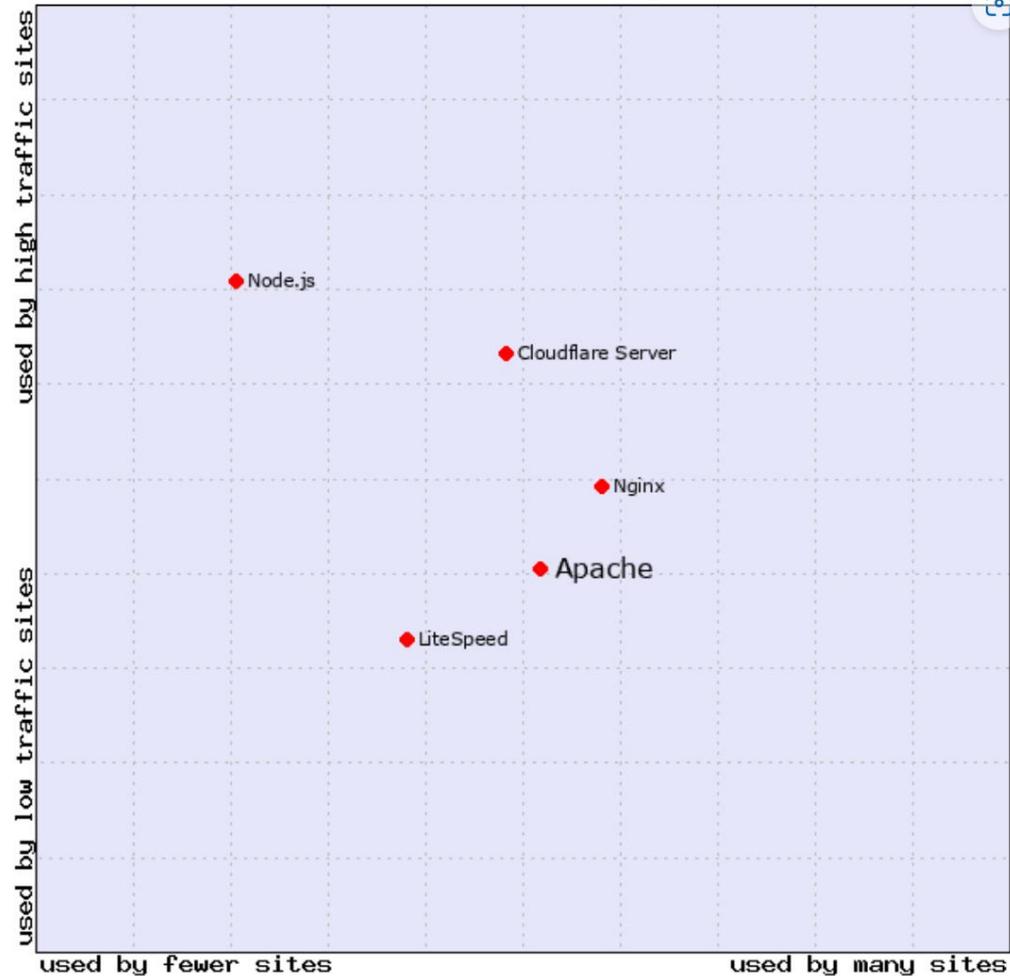
server
side
scripting

Tehnologia server-elor Web



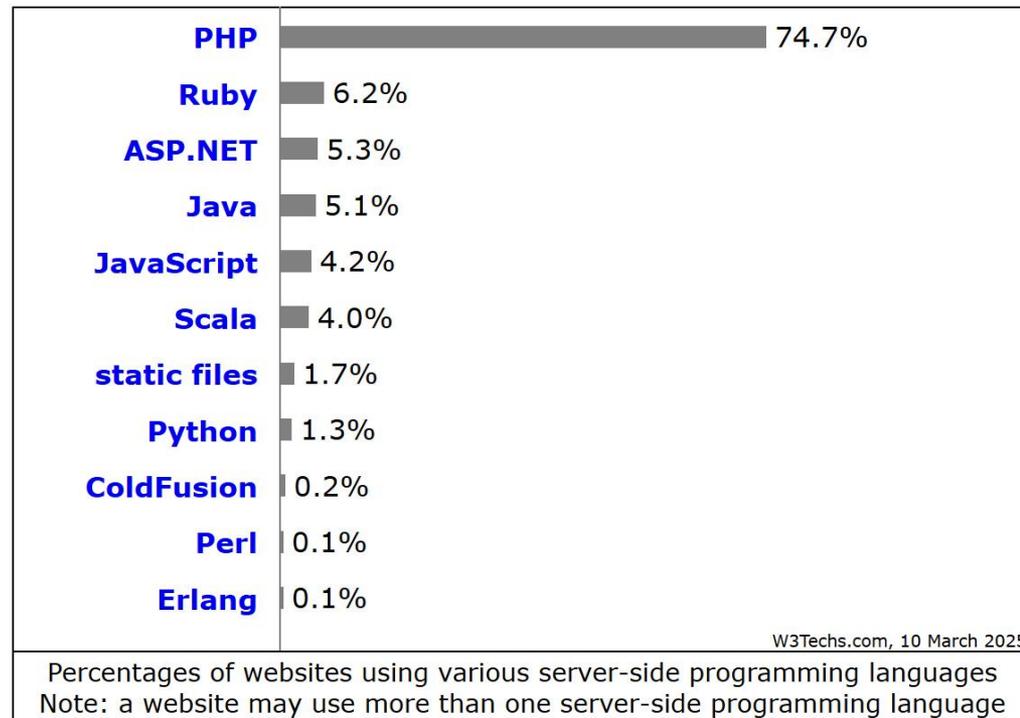
Percentages of websites using various web servers
Note: a website may use more than one web server

Apache Market Position, 10 Mar 2025, W3Techs.com



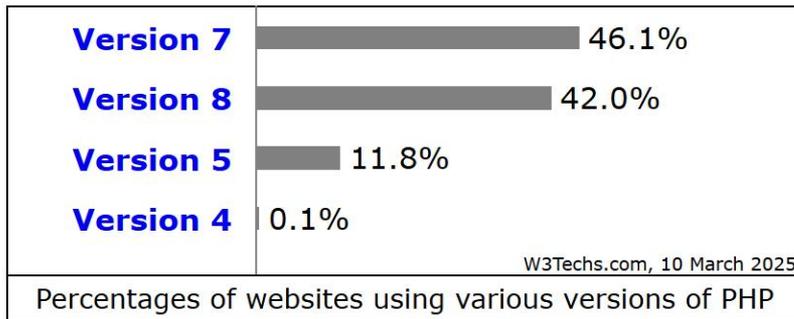
Tehnologia server-elor Web

- PHP – 74.7%
- Ruby – 6.20%
- ASP.NET – 5.30%
- Java – 5.10%
- Scala – 4.0%
- JavaScript – 4.2%
- ...
- Python – 1.3%



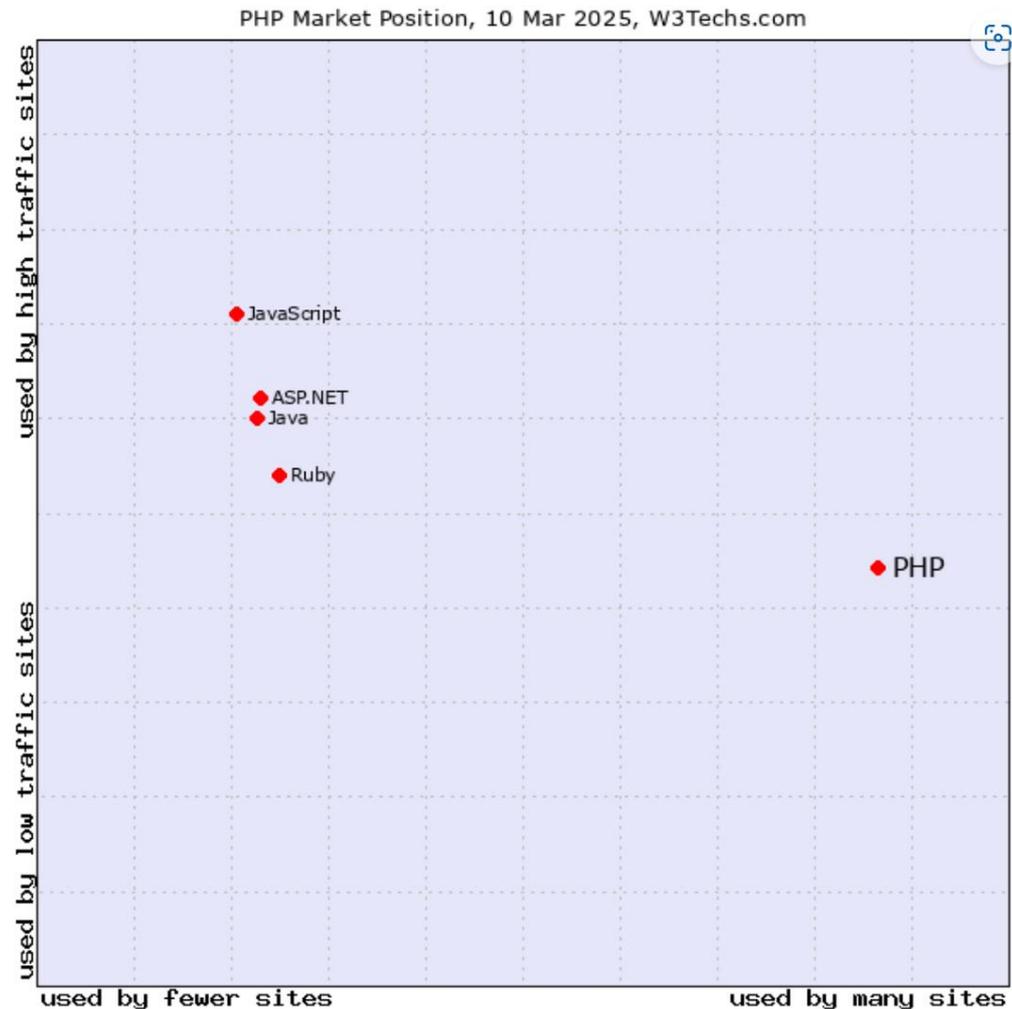
Tehnologia server-elor Web

■ PHP version



■ PHP 8.0

■ 26.11.2020



Server Side Scripting

	2010 1 Jan	2011 1 Jan	2012 1 Jan	2013 1 Jan	2014 1 Jan	2015 1 Jan
PHP	72.5%	75.3%	77.3%	78.7%	81.6%	80.6%
ASP.NET	24.4%	23.4%	21.7%	20.2%	18.2%	16.7%
Java	4.0%	3.8%	4.0%	4.1%	2.7%	2.8%
ColdFusion		1.3%	1.2%	1.1%	0.8%	0.7%
Perl		1.1%	1.0%	0.8%	0.6%	0.5%
Ruby	0.5%	0.5%	0.6%	0.5%	0.4%	0.9%
Python	0.3%	1.0%	1.3%	1.5%	1.7%	1.6%
JavaScript			<0.1%	<0.1%	0.1%	0.1%

Sites

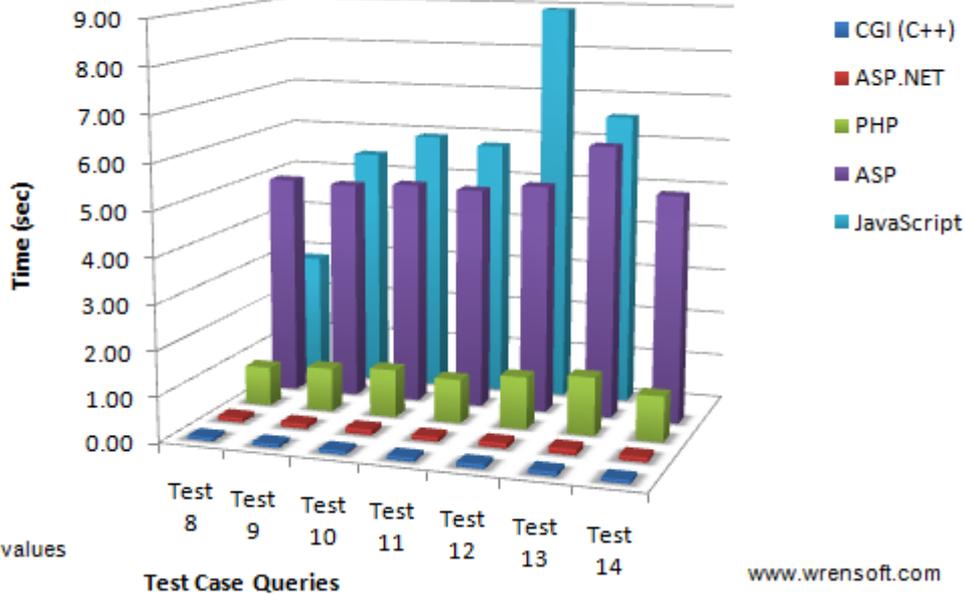
- Facebook.com
- Wikipedia.org
- Wordpress.org
- Pinterest.com
- Vimeo.com
- Wordpress.com
- Mozilla.org
- Europa.eu
- Tumblr.com
- Digicert.com

Avantaje PHP

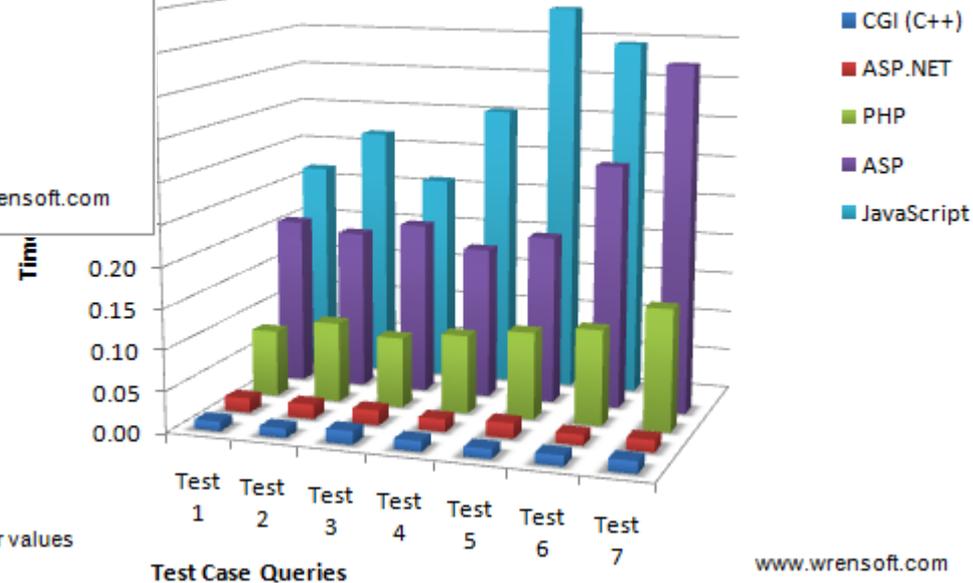
- Performanta ridicata
- Interfata cu multe sisteme de baze de date
- Costuri reduse
- Biblioteci incluse pentru majoritatea operatiunilor uzuale in aplicatii web
- Usurinta in invatare (C)
- Portabilitate
 - Disponibilitate a codului sursa
- Exemple disponibile in comunitate
- Suport disponibil

Performanta

Zoom search benchmarking
(Medium site - 60K pages, 2.5 million words)



Zoom search benchmarking
(Small site - 400 pages, 266K words)

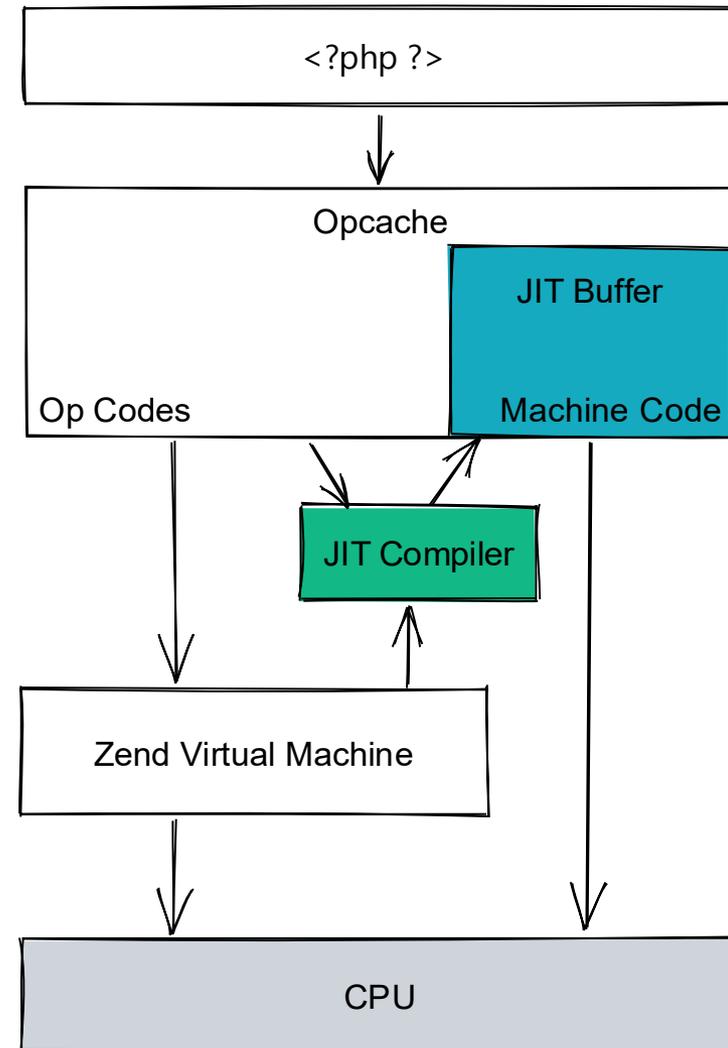


PHP - Concepte

- limbaj interpretat – compilat “on the fly” de interpretorul PHP de pe server
- script-urile PHP contin sursele
 - exista posibilitatea pre-compilarii surselor pentru spor de viteza
 - Hip-Hop for PHP / Facebook
 - HipHop Virtual Machine / Facebook
- orientat spre aplicatii web dinamice (biblioteci)
- poate fi integrat in HTML – utilizarea tipica

PHP 8 JIT

- traditional PHP este un limbaj strict interpretat
- limbajele compilate (Ahead-Of-Time - AOT) necesita codul sa fie compilat inainte de rulare.
- compilare Just-In-Time (JIT) este un model hibrid de interpretor si compilare AOT, o parte sau chiar codul in intregime este pre-compilat, deseori la momentul rularii, fara necesitatea compilarii manuale.



Integrare

E:\Documents\Pagini Web\Safir dep\lista_lot.php - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

logfile.php lista_lot.php

```
539 <?php }?>
540
541 <div id="maincontent"><!-- InstanceBeginEditable name="Continut" -->
542 <p><span class="title">Adauga</span><br/>
543 <a href="control_lot.php?id=0">Lot nou</a></p>
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```

```
<tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_p";
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<td><?php echo $row['Greateate']; ?>&nbsp;?></td>
```

```
<tr class="<?php if ($index%2) echo "lista_impar"; else echo "lista_p";
<td align="center"><?php echo $index; ?>&nbsp;?></td>
```

Separare cod PHP

- un fisier sursa PHP **este** un fisier HTML (in general) cu sectiuni de cod PHP **in interior**
- interpretorul PHP cauta sectiunile pe care trebuie sa le interpreteze si in interiorul lor proceseaza instructiunile ca fiind PHP
- ce se gaseste in **exteriorul** acestor sectiuni este trimis spre server-ul web **nemodificat**
- de cele mai multe ori rezultatul procesarii este un "fisier text" virtual continand cod **HTML** (strict) (+CSS/Javascript) transmis(e) server-ului web pentru distribuire

Separare cod PHP

- `<?php ... ?>`
 - stil XML – implicit, disponibil intotdeauna, recomandat
- `<? ... ?>`
 - scurt, este de obicei dezactivat
 - lipsa in PHP 7,8
- `<script language="php"> ... </script>`
 - stil script, disponibil (?)
- `<% ... %>`
 - stil ASP, de obicei dezactivat
 - lipsa in PHP 7,8

Variante de integrare

- echo afiseaza un text la "iesire" (echivalent cu puts() din C)
- poate realiza procesarea datelor
- in exemplu se trimite spre iesire un sir static (echivalent cu puts() din C)
- "iesire" in marea majoritate a cazurilor reprezinta datele trimise clientului de server-ul web
- "iesire" poate fi considerata de obicei:
 - documentul curent
 - pozitia curenta (a scriptului in fisierul HTML curent)

Variante de integrare

- Toate variantele ofera aceeasi sursa HTML pentru browser
- E **recomandata** cea care lasa structura HTML nemodificata si doar datele dinamice sunt rezultatul procesarii
- Codul HTML + PHP e interpretat mult mai elegant in editoarele WYSIWYG

```
<h2>Rezultate comanda</h2>  
<?php echo '<p>Comanda receptionata</p>';?>
```

```
<h2>Rezultate comanda</h2>  
<p><?php echo 'Comanda receptionata';?></p>
```

```
<?php echo '<h1>Magazin online XXX SRL</h1>';?>  
<?php echo '<h2>Rezultate comanda</h2>';?>  
<?php echo '<p>Comanda receptionata</p>';?>
```

```
<?php  
echo '<h1>Magazin online XXX SRL</h1>';  
echo '<h2>Rezultate comanda</h2>';  
echo '<p>Comanda receptionata</p>';  
?>
```

Variante de integrare

```
test.php x
1 <h2>Rezultate comanda</h2>
2 <p><?php echo 'Comanda receptionata';?></p>
3
4 <?php
5 echo '<h1>Magazin online XXX SRL</h1>';
6 echo '<h2>Rezultate comanda</h2>';
7 echo '<p>Comanda receptionata</p>';
8 ?>
9
```

PHP – instructiuni

- instructiunile PHP trebuie sa se termine cu ;
 - exceptie: se poate omite ; la sfarsitul blocului de cod php: **... echo `ceva` ?>**
- instructiunile pot sa fie scrise pe acelasi rand (fara trecerea la linia noua)
 - **echo `ceva1`; echo `ceva2`; ...**
 - nu este in general recomandat

PHP – comentarii

- comentariile in PHP respecta regulile C si Perl
- la sfarsit de linie:
 - `// echo ceva; //comentariu`
 - `# echo ceva; #comentariu`
- comentariu bloc
 - `/* ... */`
 - `/* un comentariu
pe mai multe
linii */`

PHP – constante

- Ca orice limbaj de programare PHP se bazeaza pe utilizarea
 - constante
 - variabile
 - functii
- Definirea constantelor:
 - `define('PRETCARTE', 100);`
 - "case sensitive"
 - prin conventie, numai cu litere mari
 - `echo PRETCARTE; // 100`

PHP – variabile

- variabila – semnul **\$** urmat de un nume
- numele e “case sensitive”
- o greseala frecventa e uitarea semnului \$
 - PHP Notice: Use of undefined constant an – assumed \$an (sau ‘an’) in D:\\Server\\
- Tipuri de date
 - scalar
 - compus
 - special

PHP – tipuri de date

- scalar
 - boolean
 - integer
 - float (double)
 - **string**
- compus
 - array
 - object
- special
 - resource
 - NULL

PHP – tipuri de date

- **declararea** variabilelor **nu** e necesara decat cand se declara un domeniu de definitie (variabile globale)
 - `global $a, $b;`
`$c=$a+$b;`
- eliberarea memoriei nu este necesara, se face automat la terminarea executiei

PHP – tipuri de date

```
$var = expresie
```

- Controlul variabilelor se face automat, “on the fly”
 - Daca \$var nu era definita anterior, in urma atribuirii se defineste de tipul dat de rezultatul expresiei
 - Daca \$var era definita, de un anumit tip (oarecare), in urma atribuirii devine de tipul dat de rezultatul expresiei
 - La finalizarea executiei script-ului se elimina variabila din memorie (automat)
 - Numele de variabile sunt "case-sensitive" (\$age si \$AGE sunt doua variabile diferite)

PHP – tipuri de date

- tipul de date este in totalitate dependent de ceea ce se stocheaza
- PHP reactualizeaza tipul pentru a putea primi ceea ce se stocheaza

```
<?php
echo $variabila ; // tip Null, neinitializat – valoare NULL (doar)
$variabila = "0"; // $variabila tip string (ASCII 48)
$variabila += 2; // $variabila tip integer (2)
$variabila = $variabila + 1.3; // $variabila tip float (3.3)
$variabila = 5 + "10 obiecte"; // $variabila tip integer (15)
$var2=5; // $var2 tip integer (5)
$variabila=$var2."10 obiecte"; // $variabila tip string "510 obiecte"
?>
```

PHP – operatori

- In general similari celor din C/C++
- Operatori
 - Aritmetici
 - Atribuire
 - Bit
 - Comparare
 - Incrementare/Decrementare
 - Logici
 - **Sir**

PHP – operatori

- Aritmetici
 - $-$a$ – Negare
 - $$a + b – Adunare
 - $$a - b – Scadere
 - $$a * b – Inmultire
 - $$a / b Impartire
 - $$a \% b Modulo (rest)
- Sir
 - **$$a.b – Concatenare sir a si sir b**

PHP – operatori

■ Atribuire

- `$a=$b`
- `$a+=$b` ($a=a+b$)
- `$a-=$b` ($a=a-b$)
- `$a/=$b` ($a=a/b$)
- `$a*=$b` ($a=a*b$)
- `$a%=$b` ($a=a\%b$)
- `$a.= $b` ($a=a$ concatenat b - siruri)

PHP – operatori

- Operatori la nivel de bit
 - similari celor din C
 - `~, &, |, ^, <<, >>`
- Operatori logici
 - ofera rezultat boolean true/false
 - similari celor din C
 - `&&, ||, !`
 - suplimentar
 - `and, or, xor` – echivalenti dar de prioritate mai mica
 - `$a=55/0 or die('impartire prin 0');`

PHP – operatori

- Operatori de comparare
 - ofera rezultat boolean true/false
 - similari celor din C
 - == , != , > , < , <> , >= , <=
 - suplimentar
 - === identic, valoare egala **SI** de acelasi tip
 - !== “neidentic”, valoare diferita **SAU** de tipuri diferite

Precedenta operatorilor PHP5

non-associative	clone new	clone and new
left	[array()
non-associative	++ --	increment/decrement
right	~ - (int) (float) (string) (array) (object) (bool) @	types
non-associative	instanceof	types
right	!	logical
left	* / %	arithmetic
left	+ - .	arithmetic and string
left	<< >>	bitwise
non-associative	< <= > >= <>	comparison
non-associative	== != === !==	comparison
left	&	bitwise and references
left	^	bitwise
left		bitwise
left	&&	logical
left		logical
left	? :	ternary
right	= += -= *= /= .= %= &= = ^= <<= >>=	assignment
left	and	logical
left	xor	logical
left	or	logical
left	,	many uses

Precedenta operatorilor PHP7

non-associative	clone new	clone and new
left	[array()
non-associative	++ --	increment/decrement
right	~ - (int) (float) (string) (array) (object) (bool) @	types
non-associative	instanceof	types
right	!	logical
left	* / %	arithmetic
left	+ - .	arithmetic and string
left	<< >>	bitwise
non-associative	< <= > >= <>	comparison
non-associative	== != === !== <=>	comparison
left	&	bitwise and references
left	^	bitwise
left		bitwise
left	&&	logical
left		logical
right	??	comparison
left	? :	ternary
right	= += -= *= /= .= %= &= = ^= <<= >>=	assignment
left	and	logical
left	xor	logical
left	or	logical
left	,	many uses

Precedenta operatorilor PHP8

non-associative	clone new	clone and new
right	**	arithmetic
non-associative	++ --	increment/decrement
right	~ - (int) (float) (string) (array) (object) (bool) @	types
left	instanceof	types
right	!	logical
left	* / %	arithmetic
left	+ -	arithmetic
left	<< >>	bitwise
left	.	string
non-associative	< <= > >= <>	comparison
non-associative	== != === !== =<=>	comparison
left	&	bitwise and references
left	^	bitwise
left		bitwise
left	&&	logical
left		logical
right	??	comparison
non-associative	? :	ternary
right	= += -= *= /= .= %= &= = ^= <<= >>=	assignment
left	and	logical
left	xor	logical
left	or	logical
left	,	many uses

Exemplu de separare cod php

Raspuns dinamic

- `<form action="rezultat.php" method="post">`

```
<html>
<head>
<title>Magazin online XXX SRL</title>
</head>
<body>
<h1>Magazin online XXX SRL</h1>
<h2>Rezultate comanda</h2>
<p><?php echo 'Comanda receptionata';?></p>
</body>
</html>
```

Magazin online XXX SRL

Rezultate comanda

Comanda receptionata

```
<
<
<
</head>
<body>
<h1>Magazin online XXX SRL</h1>
<h2>Rezultate comanda</h2>
<p>Comanda receptionata</p>
</body>
</html>
```

PHP – Functii

- conceptual similare celor din C/C++
- functiile nu trebuie declarate inainte de a fi folosite
- numele functiilor este “case-insensitive”
- un mare numar de functii cu utilitate directa in aplicatiile web exista in bibliotecile PHP
- unele biblioteci trebuie activate in momentul configurarii PHP
 - `extension=php_gd2.dll` (linia 639) // pentru functii de procesare grafica de exemplu
 - `extension=php_mysql.dll` (linia 651) // pentru functii de acces la baze de date MySql
 - `extension=php_mysqli.dll` (linia 652) // pentru functii de acces la baze de date MySql (**obligatoriu** de la PHP 5.6)

Utilizarea functiilor PHP

- `<form action="rezultat.php" method="post">`

```
<p>Comanda receptionata la data:  
<?php echo date('d/m/Y')." ora ".date('H:i');?></p>
```

Magazin online XXX SRL

Rezultate comanda

Comanda receptionata la data: 10/03/2010 ora 13:36

```
<body>  
<h1>Magazin online XXX SRL</h1>  
<h2>Rezultate comanda</h2>  
<p>Comanda receptionata la data:  
10/03/2010 ora 13:36</p>  
</body>
```

Elemente de control

- majoritatea notiunilor si sintaxei sunt similare celor din C/C++
- instructiune compusa: separata de acolade {...}
- if / else / elseif – executie conditionata

```
<?php
if ($a > $b) {
    echo "a mai mare ca b";
} elseif ($a == $b) {
    echo "a egal cu b";
} else {
    echo "a mai mic ca b";
}
?>
```

Elemente de control

- while
- do-while
- for
- switch
- return
- break
- goto

- Similare cu echivalentele C/C++

```
$i = 1;  
while ($i <= 10) {  
    echo $i++;  
}
```

```
$i = 10;  
do {  
    echo $i--;  
} while ($i > 0);
```

```
for ($i = 1; $i <= 10; $i++) {  
    echo $i;  
}
```

```
switch ($i) {  
    case 0:  
        echo "i este 0";  
        break;  
    case 1:  
        echo "i este 1";  
        break;  
    default:  
        echo "i nici 1 nici 0";  
        break;  
}
```

Elemente de control

- include()
- require()
- include_once()
- require_once()

- pentru inserarea **SI** evaluarea fisierului folosit ca parametru
- folosite pentru a nu multiplica sectiunile de cod comune
- require opreste executia script-ului curent daca fisierul parametru nu este gasit
- ..._once() verifica daca respectivul fisier a mai fost introdus si **nu** il mai introduce inca o data

Consideratii generale

Aplicatii

Aplicatii

Favorites BCC e-SMART

BANCA COMERCIALA CARPATICA BCC e-SMART internet banking inteligent

Conturi Plati Depozite Rapoarte Setari

AJUTOR Deconectare

Rulare raport Vizualizare rapoarte

ATENȚIE!
Va reamintim ca BCC nu solicita informatii confidentiale (user, parola, numar de card, data expirarii cardului, codul PIN) prin e-mail. Aceste informatii nu trebuie divulgate nimanei, sub niciun motiv. Pentru alte lamuriri, puteti apela 0800.807.807 (numar accesibil din rețeaua Romtelecom). Aveti posibilitatea sa alegeti procesarea in regim de urgenta a platilor. Aceasta optiune se comisiona suplimentar.

Rulare raport

Raport

Ruleaza raportul

imediat

la data 03.03.2010 ora 23:59

Ruleaza

top

surati activitate pe Internet, va rugam sa consultati periodic documentul [SECURITATE INTERNET](#) *** BCC informeaza ca SWIFT poate furniza autor

Aplicatii

www.bcr.ro

Home Contact English Contact center Go Cauta Go

CLICK 24Banking 24 Banking Persoane fizice Private banking Timeri PFA Micro Corporatii IMM Municipalitati Despre noi Cariere Presa

Lista de conturi Conturi curente Economisire Finantare

Mda Domn
nteti co
CLICK 24Banking

Logout

Favorite

- Ordin de Plata
- Istoricul tranzactiilor
- Lista ordine de plata
- Sabloane
- Plata repetitiva
- Schimb Valutar
- Cumpara produse
- Deschidere cont curent
- Constituire depozite la termen
- Deschidere cont de economii
- Cumparare CDD
- Ataseaza card de debit
- Aplica pentru un credit
- Curs valutar
- Mesaje(4)
- Contul meu de CLICK 24Banking (Favorite)
- Demo Click24 Banking

Aveti mesaje noi

Citire

Ordin de Plata - Creare

Intrebari/Sugestii

03.03.2010 14:24:03 Help

Stare cont	Tip	Numar cont	Sold disponibil	Valuta
Activ	Conturi curente			RON

Detalii

Sablon personal Selectati sablon

Sablon furnizor Selectati sablon

IBAN beneficiar

Verificare IBAN

Nota:
Pentru a ordona o plata, va rugam fie sa introduceti IBAN beneficiar, fie sa selectati un sablon personal sau pentru furnizori.
Atentie : Transferurile se pot efectua doar catre conturi deschise in aceeași valuta!

Tarife si comisioane

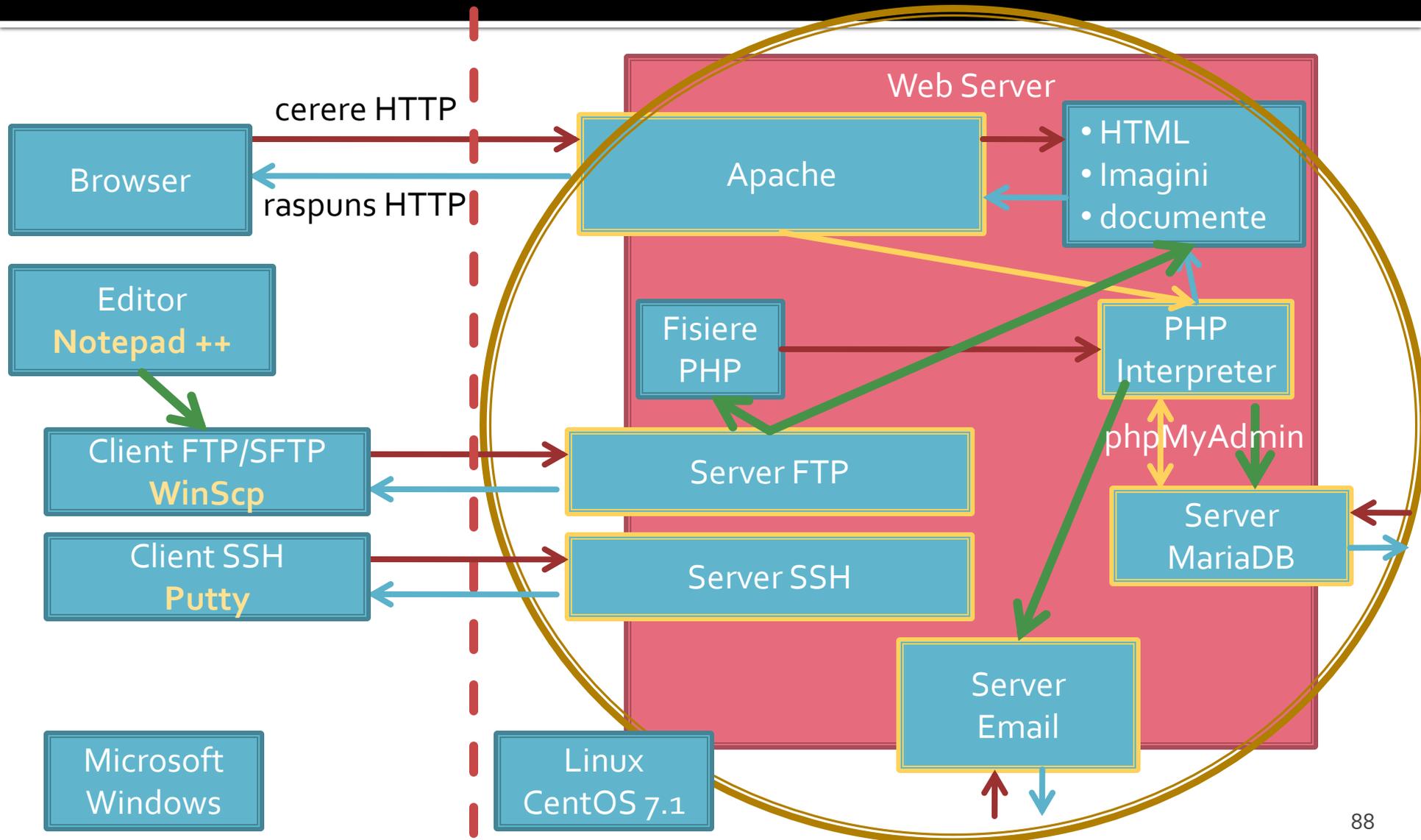
Intrebari si Raspunsuri

24 Banking

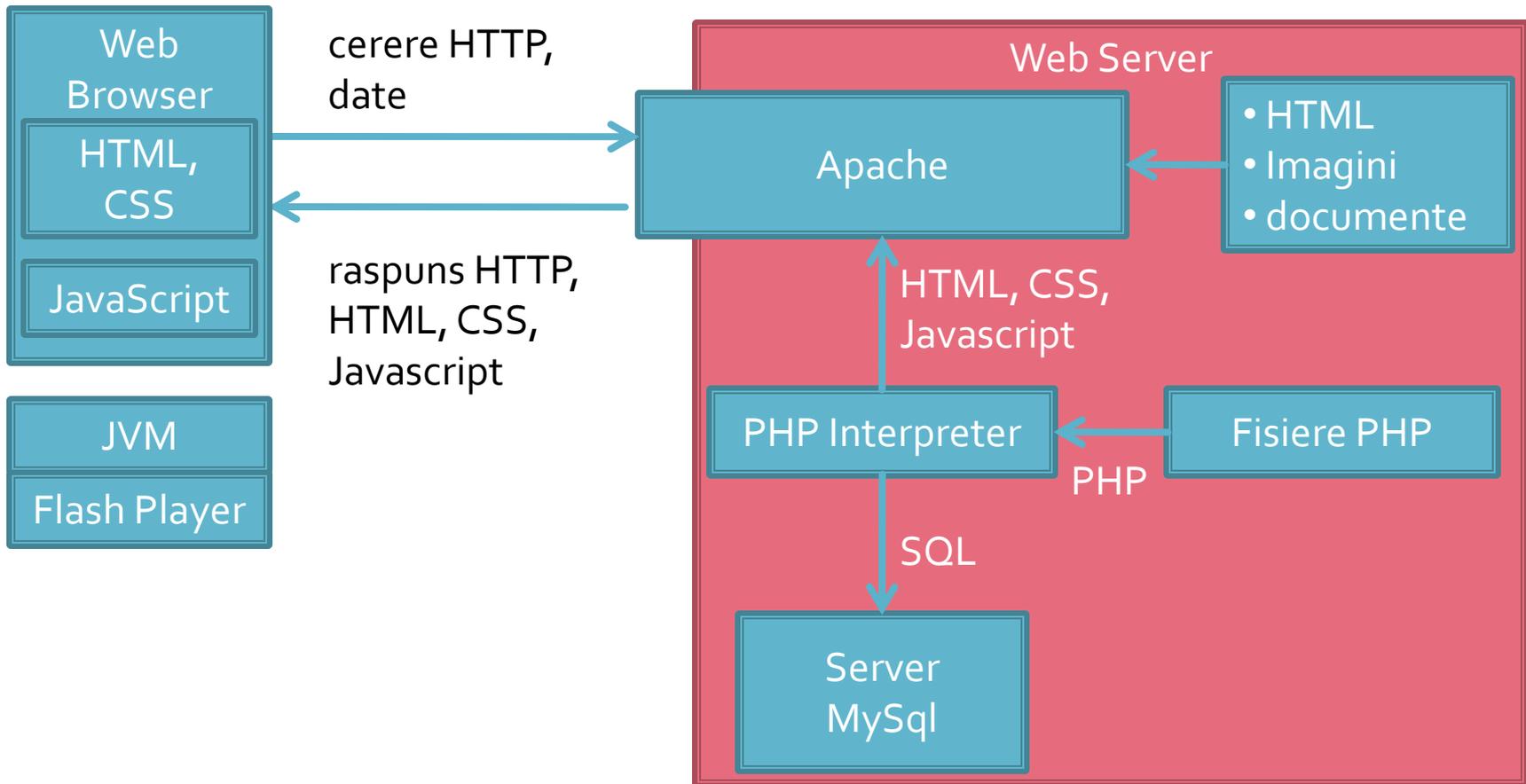
Contact center

BANCA COMERCIALA ROMANA - SOCIETATE ADMINISTRATA IN SISTEM DUALIST, Bucuresti, B-dul Regina Elisabeta nr.5, Sector 3 | mentiuni legale - © 2008 BCR SA - Toate drepturile rezervate | site map

LAMP



Client/Server Scripting



client
side
scripting

server
side
scripting

Exemple reale

- View Source (sau echivalent) ofera acces **TOTAL** la surse:
 - HTML
 - CSS
 - Javascript
- numai pentru observatorul “avizat”
- Firefox/Chrome beneficiaza de cateva extensii extrem de utile pentru web designer
 - Web Developer/Developer Tools
 - Firebug
 - Dom Inspector (implicit pana la 3.0)

Exemple reale

- Nu e valabil pentru sursele PHP/MySQL care nu ajung pe calculatorul client decat in caz de eroare
- Flash si Java ajung de asemenea in forma binara, compilata
- cateodata apar artificii de "ascundere" a codului: se ingreuneaza citirea de un utilizator uman

HTML

Forme

Aplicatie Web

- presupune prelucrarea unor date si oferirea unui document personalizat (rezultat al datelor respective)
- datele pot fi obtinute:
 - de la utilizator
 - o sursa externa (baze de date)
 - **combinatie** utilizator/baze de date

Forme in HTML

- necesare pentru ca utilizatorul sa poate trimite date server-ului
- **<form>...</form>**
- Attribute specifice:
 - action: adresa documentului care preia datele
 - `<form action="<?php echo $_SERVER['PHP_SELF'];?>">`
 - `<form action="actiuni/fisier2.html">`
 - method: modalitatea de transmitere a datelor: post sau get
 - `<form method="post" action= ... >`

Metode de transmitere

- **post** datele sunt transmise in bloc
- **get** datele sunt atasate adresei documentului de procesare : results.php?prob=81&an=2009
- **get** trebuie folosit numai cand datele sunt "idempotente",
 - nu cauzeaza efecte colaterale
 - nu modifica starea server-ului (baze date, etc)
- se poate simula realizarea unei forme (**get**) prin scrierea corespunzatoare a link-urilor

Elemente de interactiune cu utilizatorul – <form>

- in interiorul etichetei <form>...</form>
 - input
 - select/option
 - textarea
 - button
- **toate** elementele vor avea un nume
 - atribut: name=""
 - numele va fi intalnit in uri-ul generat prin get, sau in numele variabilei trimisa prin post
- trimiterea datelor se face prin intermediul unui buton cu tipul type="submit"

INPUT

- `<input .../>`
- Attribute:
 - type: text | password | checkbox | radio | submit | reset | file | hidden | image | button
 - name: numele variabilei
 - value: valoarea trimisa server-ului la selectie (valoarea initiala in anumite cazuri)
 - checked/src/size/maxlength in functie de tip

Example

```
<input name="textfield" type="text" value="ceva" />
```

```
<input name="Ok" type="submit" value="Trinite" />
```

```
<label><input name="check" type="checkbox" value="5" checked />check1</label>
```

```
<label><input name="RG1" type="radio" value="a" checked="checked" />but1</label>
```

```
<label><input name="RG1" type="radio" value="b" />but2</label>
```

```
<input name="hid" type="hidden" value="6" />
```

ceva

Trinite



check1



but1



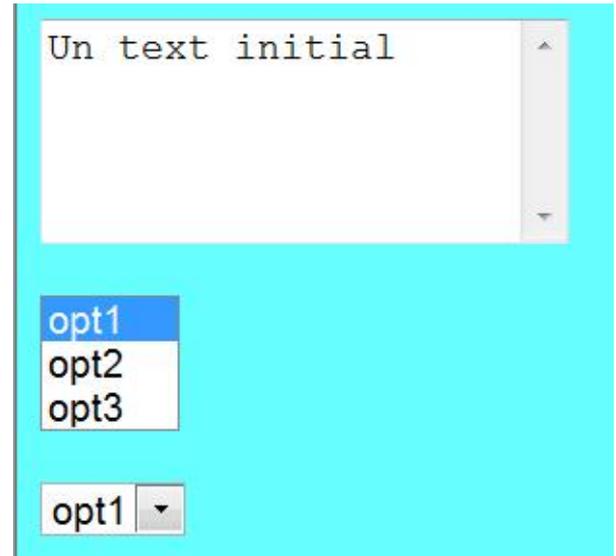
but2

TEXTAREA/SELECT

```
<textarea name="textarea" cols="20" rows="5">Un text  
initial</textarea><br /><br />
```

```
<select name="select." size="3">  
  <option value="1" selected="selected">opt1</option>  
  <option value="2">opt2</option>  
  <option value="3">opt3</option>  
</select><br /><br />
```

```
<select name="select...">  
  <option value="1" selected="selected">opt1</option>  
  <option value="2">opt2</option>  
  <option value="3">opt3</option>  
</select>
```



The screenshot displays a web form on a light blue background. At the top is a text area containing the text "Un text initial". Below the text area are two select elements. The first is a list box with three options: "opt1" (highlighted in blue), "opt2", and "opt3". The second is a dropdown menu with "opt1" selected and a downward arrow on the right.

BUTTON

```
<button type="button" onClick="do ( );">Click Here</button>
```

```
<button type="submit" value="infoOnly">Request Info</button>
```

```
<button type="reset">Clear</button>
```

```
<button type="submit" id="sender"  
value="infoOnly">Request<br />Info<br /></button>
```

```
<button type="submit" id="sender"  
value="infoOnly"><p>Request</p><p><b><i>Info</i></b></p>  
</button>
```

- introdus pentru a oferi posibilitatea introducerii de continut mai complex (text formatat, imagini) in interiorul butoanelor de pe forma

Click Here

Request Info 

 Clear

Request
Info


Request

Info


HTML 5 – Validare input

- `<input type="email">`
- `<input type="number">`
- `<input type="search">`
- `<input type="tel">`
- `<input type="url">`

HTML 5 – Validare input

```
<label for="email">Email:</label>
<input type="email" id="email" name="email">
<br /><br />
<label for="can">Cantitate (1 - 5):</label>
<input type="number" id="can" name="can" min="1" max="5">
<br /><br />
<label for="gsearch">Cautare Google:</label>
<input type="search" id="gsearch" name="gsearch">
<br /><br />
<label for="phone">Telefon:</label>
<input type="tel" id="phone" name="phone"
placeholder="0123.456.789" pattern="[0-9]{4}.[0-9]{3}.[0-9]{3}"
required>
<br /><br />
<label for="server">Server:</label>
<input type="url" id="server" name="server">
```

Email:

Cantitate (1 - 5):

Cautare Google:

Telefon:

Server:

HTML 5 – Validare input

Email:

Please include an '@' in the email address. 'ceva' is missing an '@'.

ceva@server

Cantitate (1 - 5):

Telefon:

S  Please match the requested format.

Server:

 Please enter a URL.

Email:

 Please include an '@' in the email address. 'ceva' is missing an '@'.

Telefon:

Server:  Please fill out this field.

Telefon:

S  Please match the requested format.

Server:

HTML 5 – Interfata nativa browser

- `<input type="color">`
- `<input type="date">`
- `<input type="datetime-local">`
- `<input type="month">`
- `<input type="range">`
- `<input type="time">`
- `<input type="week">`

HTML 5 – Interfata nativa browser

```
<label for="culoare">Culoare:</label>
<input type="color" id="culoare" name="culoare" value="#ff0000">
<br /><br />
<label for="nastere">Data nastere:</label>
<input type="date" id="nastere" name="nastere">
<br /><br />
<label for="examen">Examen (data si ora):</label>
<input type="datetime-local" id="examen" name="examen">
<br /><br />
<label for="fin">Finalizare (luna si an):</label>
<input type="month" id="fin" name="fin">
<br /><br />
<label for="vol">Volum (0 - 50):</label>
<input type="range" id="vol" name="vol" min="0" max="50">
<br /><br />
<label for="ora">Ora intalnire:</label>
<input type="time" id="ora" name="ora">
<br /><br />
<label for="sap">Saptamana:</label>
<input type="week" id="sap" name="sap">
```

Culoare:

Data nastere:

Examen (data si ora):

Finalizare (luna si an):

Volum (0 - 50):

Ora intalnire:

Saptamana:

HTML 5 – Interfata nativa browser

Culoare:

Data nast

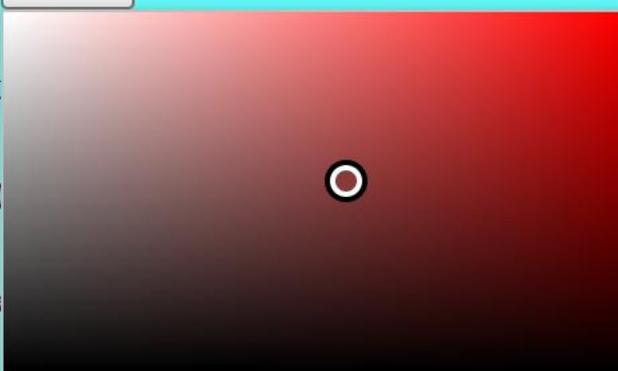
Examen (

Finalizare

Volum (0

Ora intal

Saptamar



The image shows a native browser color picker. It features a large square color field with a white circle in the center. Below the field is a circular color wheel and a horizontal rainbow color bar. At the bottom, there are three input boxes for the RGB values: R (135), G (59), and B (59). A small 'd' icon is visible to the right of the B box.

135 59 59

R G B

Culoare:

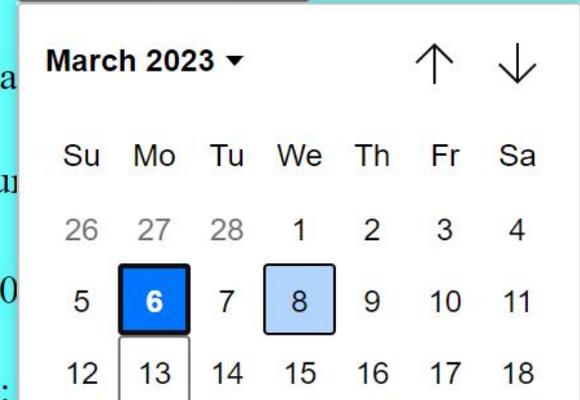
Data nastere:

Examen (data

Finalizare (lu

Volum (0 - 50

Ora intalnire:



The image shows a native browser date picker. It displays the month of March 2023. The days of the week are listed at the top: Su, Mo, Tu, We, Th, Fr, Sa. The dates are arranged in a grid. The date 6 is highlighted in blue, and the date 8 is highlighted in light blue. The date 13 is also highlighted in light blue.

March 2023

Su Mo Tu We Th Fr Sa

26 27 28 1 2 3 4

5 6 7 8 9 10 11

12 13 14 15 16 17 18

HTML 5 – Interfata nativa browser

Examen (data si ora): 03/13/2023 05:24 PM 

Finalizare (luna si an): **March 2023**  

Volum (0 - 50):

Ora intalnire: --:--

Saptamana: Week --,

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1
2	3	4	5	6	7	8

Clear Today

02	21	PM
03	22	AM
04	23	
05	24	
06	25	
07	26	
08		

Finalizare (luna si an): **June** 2023 

Volum (0 - 50):

Ora intalnire: --:--

Saptamana: Week --,

2023

Jan	Feb	Mar	Apr
May	Jun	Jul	Aug
Sep	Oct	Nov	Dec

Clear This month

HTML 5 – Interfata nativa browser

Volum (0 - 50):



Ora intalnire:

05:30 PM

Saptamana: W

02	25	PM
03	26	AM
04	27	
05	28	
06	29	
07	30	
08	31	

Trimite

Saptamana:

Week 13, 2023

Trimite

March 2023

Week	Su	Mo	Tu	We	Th	Fr	Sa
9	26	27	28	1	2	3	4
10	5	6	7	8	9	10	11
11	12	13	14	15	16	17	18
12	19	20	21	22	23	24	25
13	26	27	28	29	30	31	1
14	2	3	4	5	6	7	8

Clear

This week

Laborator 2

HTML

- se creaza o pagina care sa arate ca in schita alaturata
- forma paginilor:
 - CSS (**recomandat**)
 - tabel
- Se experimenteaza diversele elemente de **interactiune cu utilizatorul (<form> + ...)**

culoare	IMAGINE	culoare
	Continut (cu alta culoare fundal)	

Suplimentar

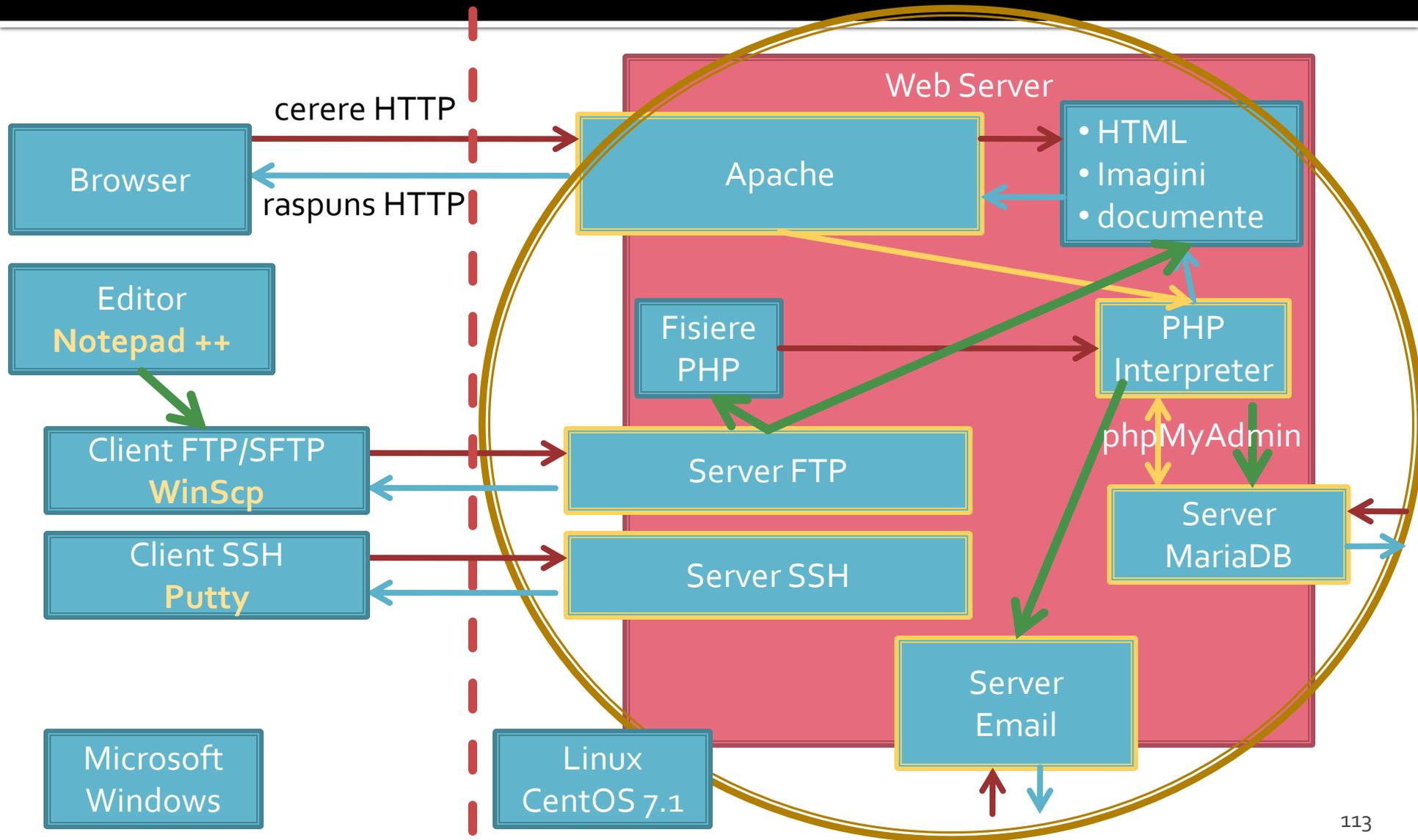
- forma din schita alaturata
- forma paginilor:
 - (tabel) controlat prin CSS
- se experimenteaza cu **functii** generale php de ex:
 - data
 - timp
 - etc.

culoare	IMAGINE	culoare
	Continut (cu alta culoare fundal)	
	Copyright (cu alta culoare fundal)	

Exemplu

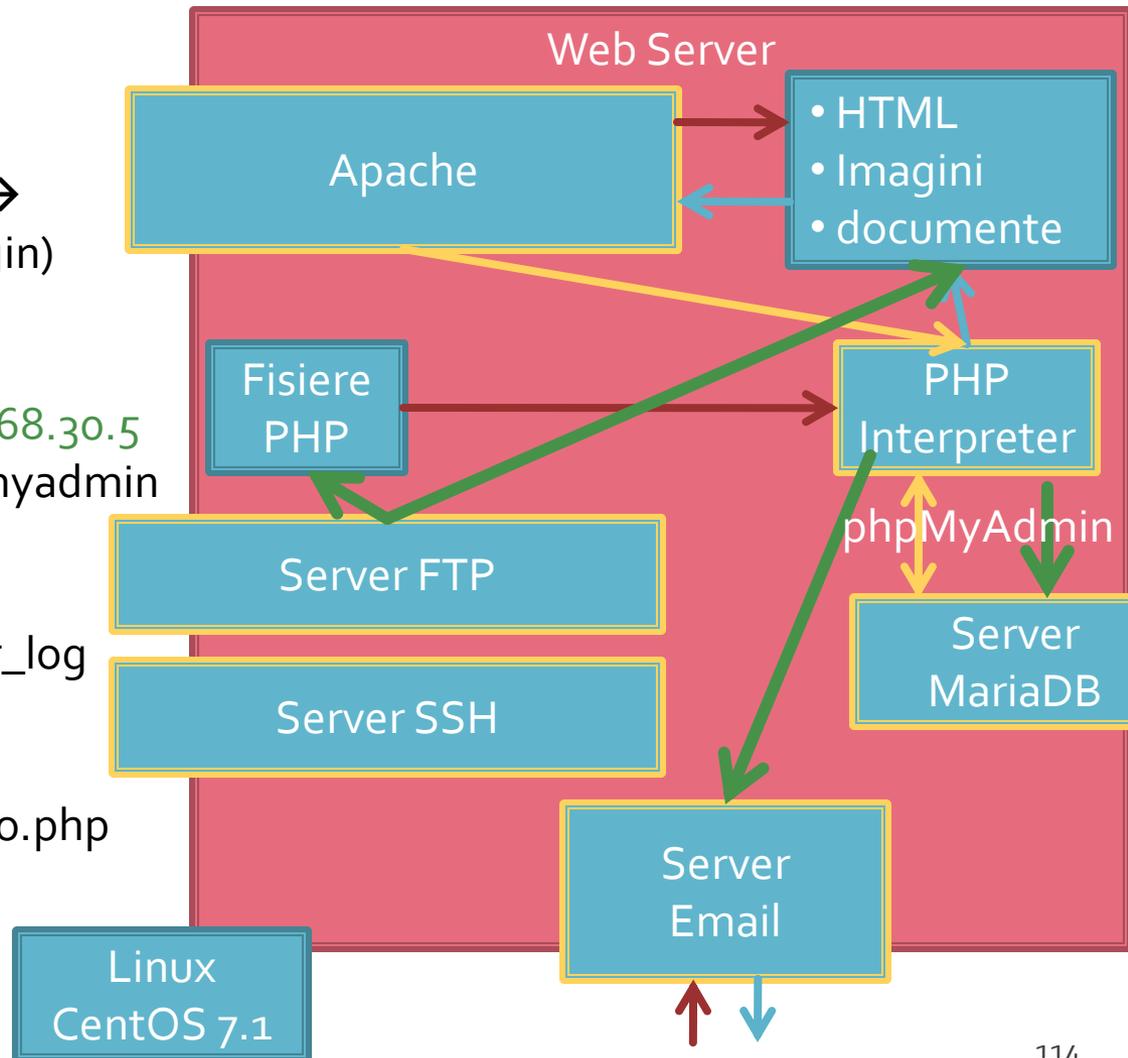


Utilizare LAMP



Utilizzare LAMP

1. login → root:masterrc/masteretti
2. ifconfig → 192.168.30.5
3. putty.exe → 192.168.30.5 → SSH → root:masterrc/masteretti (remote login)
4. [alte comenzi linux dorite]
5. FTP → Wincp → SFTP → student:masterrc/masteretti @192.168.30.5
6. MySql → http://192.168.30.5/phpmyadmin → root:masterrc/masteretti
7. Apache Error Log →
 - 7a. putty → nano /var/log/httpd/error_log
 - 7b. http://192.168.30.5/logfile.php (nonstandard)
8. PHP info → http://192.168.30.5/info.php



Server referinta LAMP 2026

- 3 variante acceptate
 - CentOS 7.1
 - Ubuntu 20.04
 - Debian 12.5

Server referinta LAMP

- Centos 7.1
 - PHP 5.4.16
 - MariaDB 5.5.44 / root:masterrc
 - Apache 2.4.6
 - PhpMyAdmin/4.4.15
 - **root**/student:masterrc
 - Python 2.7.5
 - creat: Workstation Player 12.x (**12**)

Server referinta LAMP

- Ubuntu 20.04
 - PHP 7.4.3
 - MariaDB 10.3.31 / root:masteretti
 - Apache 2.4.41
 - **paw/student:masteretti**
 - necesar suplimentar pentru **acces FTP user paw:**
 - sudo usermod -a -G upload paw
 - sudo chmod -R 775 /var/www
 - Python 3.8.10
 - creat: Workstation Player 15.x (**16**)

Server referinta LAMP

- Debian 12.5
 - PHP 8.2.7
 - MariaDB 10.11.6 / root:masteretti
 - Apache 2.4.57
 - PhpMyAdmin/5.2.1 deb
 - **root/paw/student:masteretti**
 - Python 3.11.2
 - creat: Workstation Player 17.5 (**21**)

Server referinta

- rf-opto.etti.tuiasi.ro > Master > Web Design

Project/Design

~~[Teme proiect 2020](#) (pdf, 874.95 KB, ro, 🇷🇴)~~

[Sevrer CentOS pentru VMWare Player \(cloud\)](#) (link, 0 Bytes, ro, 🇷🇴)

~~[Realizare Server CentOS](#) (pdf, 1.4 MB, en, 🇸🇪)~~

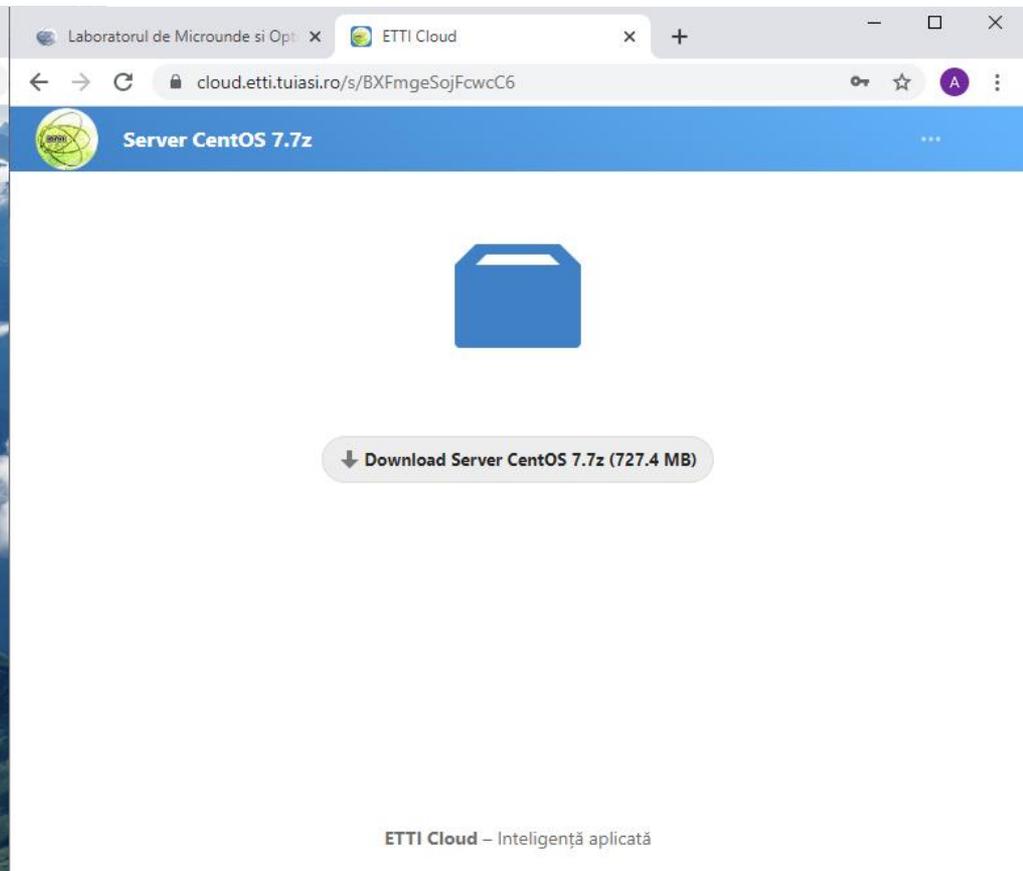
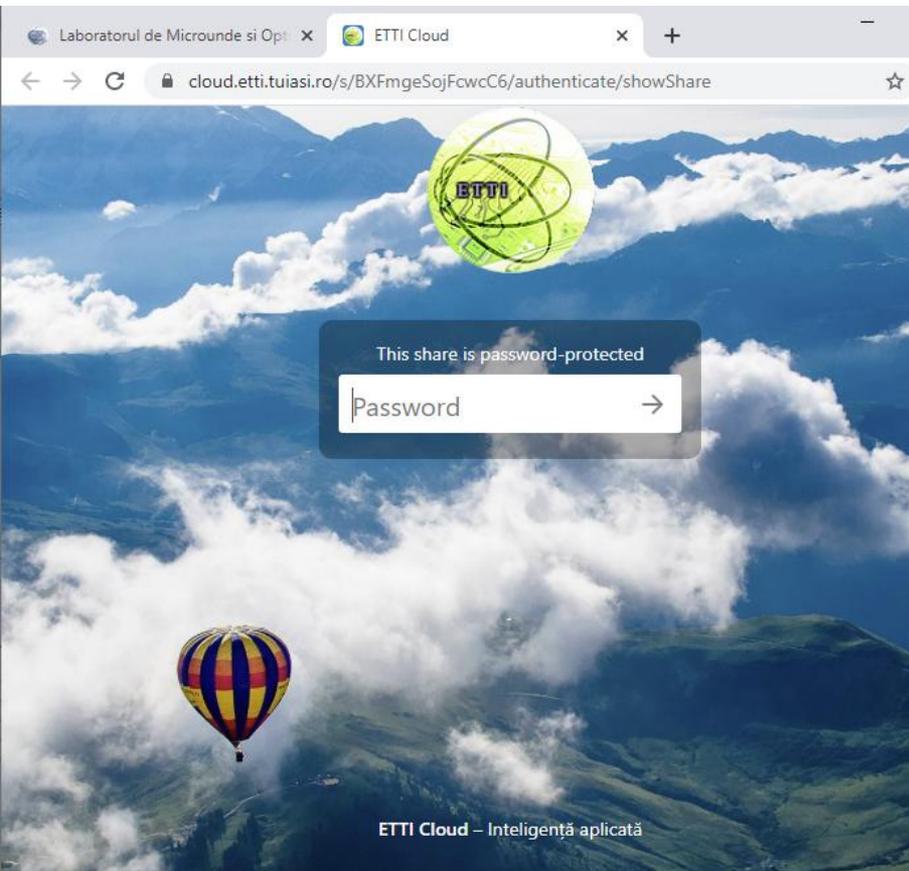
Examen

[Simulare Examen \(video\)](#) (mp4, 65.12 MB, ro, 🇷🇴)

[Manual examen on-line](#) (pdf, 2.65 MB, ro, 🇷🇴)

Server referinta

- Cloud ETTI: **RF-opto3#**



Server referinta

- Masina virtuala
- VMware Workstation Player
 - Gratuit (non-comercial)
 - <https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html>
- Inlocuit de VMware Workstation Pro



VMware Workstation Pro for PC

Build and test nearly any app with the world's leading desktop hypervisor app for Windows and Linux.

DOWNLOAD NOW >

Server referinta

- Masina virtuala
- VMware Workstation Pro (Broadcom)



VMware Workstation Pro for PC

Build and test nearly any app with the world's leading desktop hypervisor app for Windows and Linux.

[DOWNLOAD NOW >](#)



Broadcom Inc. Customer sign-in

Username

Enter your username

Remember me

Next

Server referinta

The screenshot shows the VMware Workstation 15 Player interface. The title bar reads "VMware Workstation 15 Player (Non-commercial use only)". Below the title bar is a toolbar with a "Player" dropdown, a play button, and icons for cloning, snapshots, and power management. The main area is split into two panes. The left pane, titled "Home", shows a library of virtual machines: "RF XP Professional", "PAW CentOS 64-bit" (circled in red), and "Server CentOS 64-bit". The right pane is a welcome screen titled "Welcome to VMware Workstation 15 Player". It contains four main options: "Create a New Virtual Machine" (with a plus icon), "Open a Virtual Machine" (with a document icon, circled in red), "Upgrade to VMware Workstation Pro" (with a blue and orange icon), and "Help" (with a question mark icon). At the bottom, there is a disclaimer: "This product is not licensed and is authorized for non-commercial use only. For commercial use, purchase a license. [Buy now.](#)"

Server referinta

- Pentru rularea unui server pe o versiune VMware Player **anterioara**:
 - se localizeaza fisierul "*.vmx" a server-ului
 - se modifica virtualHW.version = "**21**" la o valoare mai mica (anterioara)
 - in 2.13 -> **18?**

Server referinta

The image shows a Windows File Explorer window titled "Server Debian" with the address bar set to "Documents > Curs PAW". The file list includes several Debian 12.x 64-bit files. The file "Debian 12.x 64-bit.vmx" is circled in red. An inset window shows the contents of this file, with the line "virtualHW.version = \"21\"" also circled in red.

File Explorer View:

Name	Size	Modified	Type
Debian 12.x 64-bit.nvram			
Debian 12.x 64-bit.scoreboard			
Debian 12.x 64-bit.vmdk			
Debian 12.x 64-bit.vmsd			
Debian 12.x 64-bit.vmx			
Debian 12.x 64-bit.vmx	21-Feb-24 09:45		VMXF
Debian 12.x 64-bit-0.scoreboard	04-Mar-24 14:35		SCORE
Debian 12.x 64-bit-1.scoreboard	04-Mar-24 14:23		SCORE
Debian 12.x 64-bit-2.scoreboard	04-Mar-24 13:18		SCORE

Text Editor View (Debian 12.x 64-bit.vmx):

```
1 .encoding = "windows-1252"  
2 config.version = "8"  
3 virtualHW.version = "21"  
4 pciBridge0.present = "TRUE"  
5 pciBridge4.present = "TRUE"  
6 pciBridge4.virtualDev = "pcieRoot"  
7 pciBridge4.functions = "8"  
8 pciBridge5.present = "TRUE"  
9 pciBridge5.virtualDev = "pcieRoot"  
10 pciBridge5.functions = "8"  
11 pciBridge6.present = "TRUE"  
12 pciBridge6.virtualDev = "pcieRoot"  
13 pciBridge6.functions = "8"
```

Aplicatii suport

- WinSCP (client FTP, gratuit)
 - <https://winscp.net/eng/download.php>
- Notepad ++ (editor, avansat, gratuit)
 - <https://notepad-plus-plus.org/downloads/>
- Putty (remote access)
 - <https://www.putty.org/>
- MySQL Workbench (gratuit, cont Oracle)
 - <https://www.mysql.com/products/workbench/>
- Visual Studio Code (gratuit, Microsoft)
 - <https://code.visualstudio.com/download>

Aplicatii suport

- Variante portabile

Laboratory

[Laborator 1](#) (pdf, 1.48 MB, ro, 🇷🇴)

[Server Win2000 pentru VMWare Player - lab 1 \(cloud\)](#) (link, 0 Bytes, en, 🇺🇸)

[Accesorii laborator \(x32 - partial\)](#) (zip, 28.92 MB, en, 🇺🇸)

[Accesorii laborator \(x64 - complet\)](#) (zip, 133.58 MB, en, 🇺🇸)

Project/Design

[VMware Workstation Player](#) (link, 0 Bytes, en, 🇺🇸)

[Server CentOS pentru VMWare Player \(cloud\)](#) (link, 0 Bytes, en, 🇺🇸)

[Instalare Centos](#) (pdf, 2.54 MB, en, 🇺🇸)

[Server Ubuntu pentru VMWare Player \(cloud\)](#) (link, 0 Bytes, en, 🇺🇸)

[Instalare Ubuntu](#) (pdf, 1.83 MB, en, 🇺🇸)

Adresa IP

- login, ifconfig
- Ctrl + Alt + mouse

```
PAW CentOS 64-bit - VMware Workstation 15 Player (Non-commercial use only)
Player | || | | |
CentOS Linux 7 (Core)
Kernel 3.10.0-229.20.1.el7.x86_64 on an x86_64
tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
```

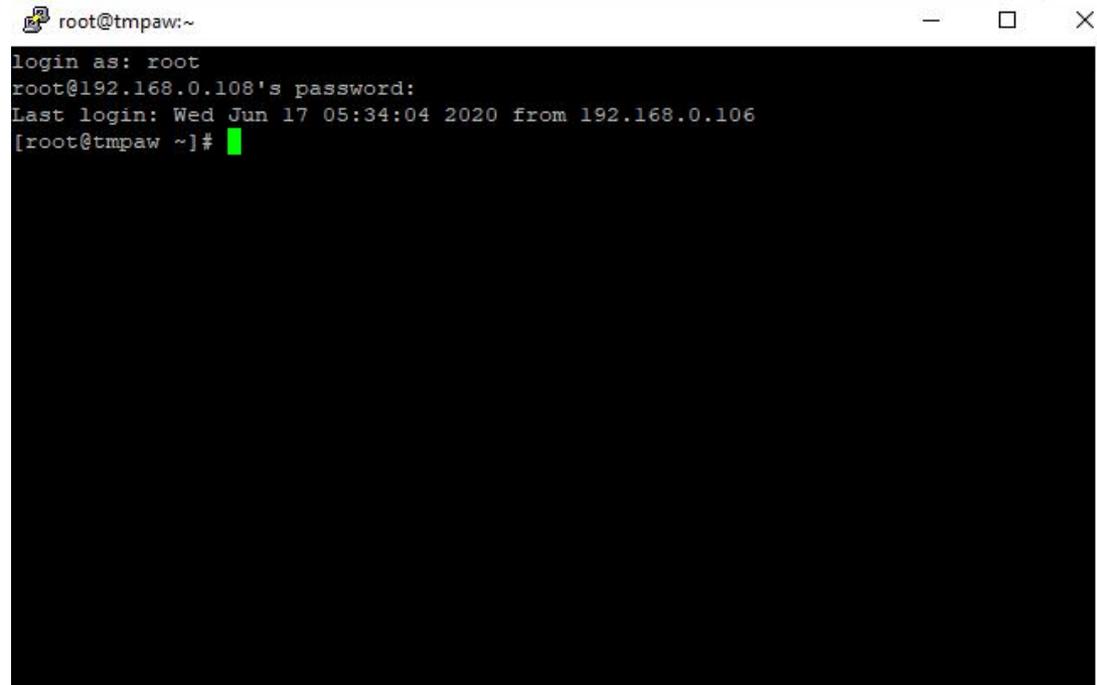
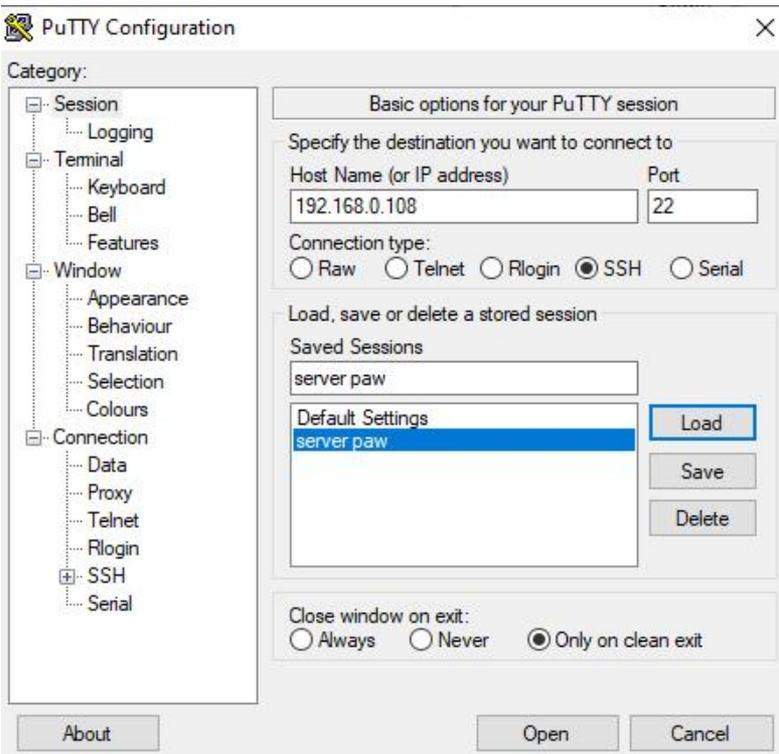
```
PAW CentOS 64-bit - VMware Workstation 15 Player (Non-commercial use only)
Player | || | | |
CentOS Linux 7 (Core)
Kernel 3.10.0-229.20.1.el7.x86_64 on an x86_64
tmpaw login: root
Password:
Last login: Wed Jun 17 05:35:16 from 192.168.0.106
[root@tmpaw ~]# ifconfig
eno16777736: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.0.108 netmask 255.255.255.0 broadcast 192.168.0.255
    inet6 fe80::250:56ff:fe3e:1693 prefixlen 64 scopeid 0x20<link>
    ether 00:50:56:3e:16:93 txqueuelen 1000 (Ethernet)
    RX packets 104 bytes 12814 (12.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 99 bytes 11847 (11.5 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 0 (Local Loopback)
    RX packets 16 bytes 1774 (1.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 16 bytes 1774 (1.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[root@tmpaw ~]# _
```

Putty

- putty.exe
- evitare captura mouse, copy/paste etc.



WinSCP

- client FTP
- upload fisiere

The screenshot displays the WinSCP interface. On the left, a 'Session' dialog box is open, showing configuration for an SFTP connection to 192.168.0.108 on port 22, with the user 'student'. The 'Login' button is highlighted. The main window shows the remote file system structure, including a 'www/html' directory. A table on the right lists files in the 'html' directory with their sizes, modification dates, and permissions.

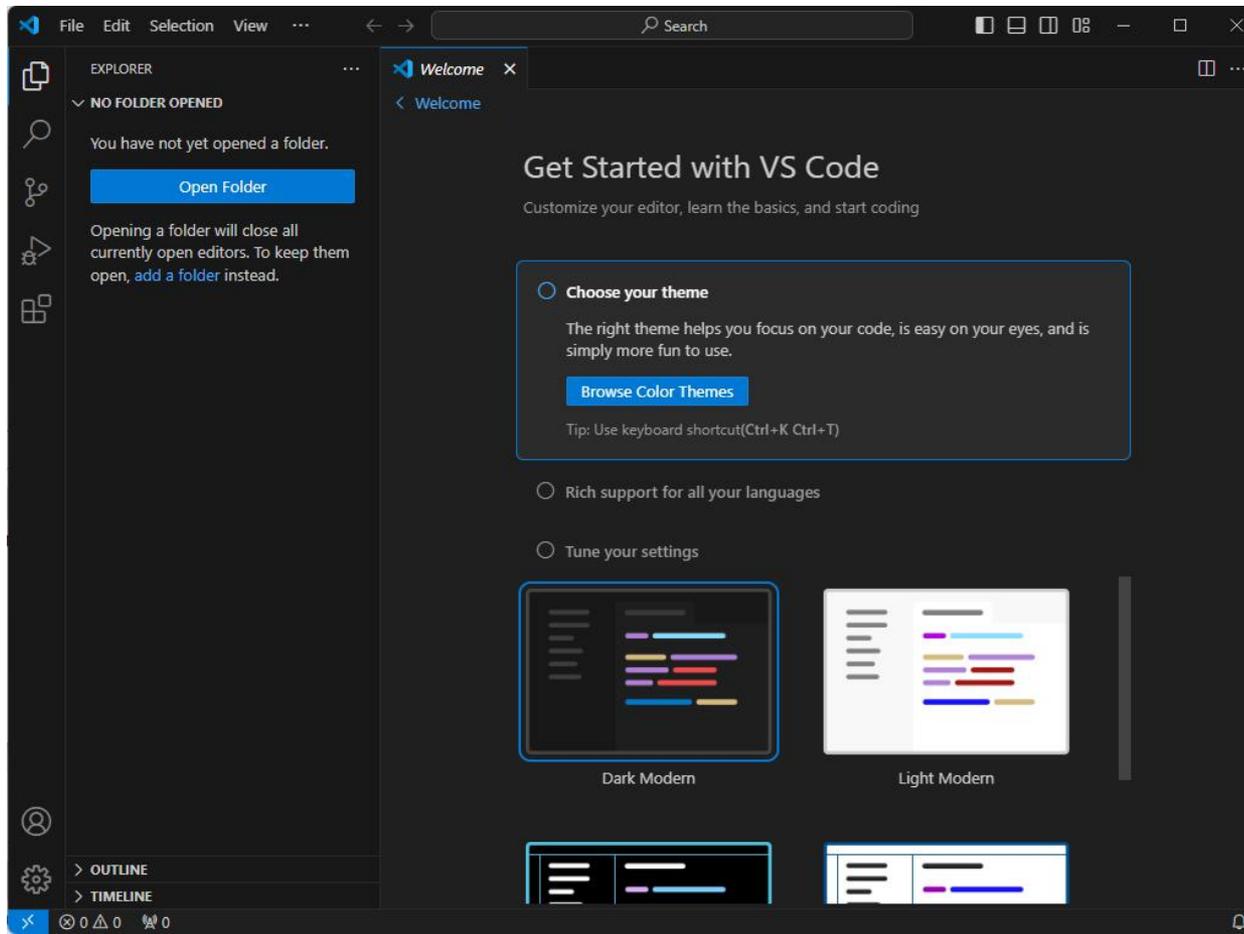
Name	Size	Changed	Rights
ap.log	1 KB	2/29/2016 11:28:50 AM	rw-rw-r
info.php	1 KB	9/30/2009 3:23:00 PM	rw-rw-r
logfile.php	4 KB	12/6/2015 12:05:08 PM	rw-rw-r
test.php	2 KB	2/29/2016 12:04:12 PM	rw-rw-r

0 B of 5.09 KB in 0 of 4

130 1, 21:06:30

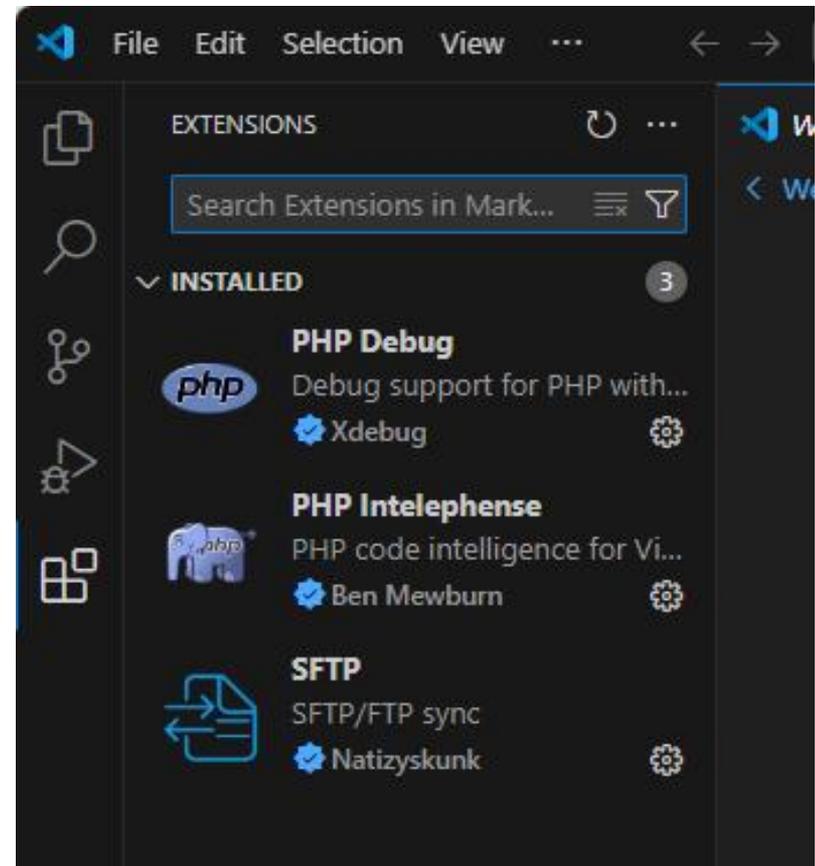
Visual Studio Code

- 1.87 Portabil (curent 1.97.2)

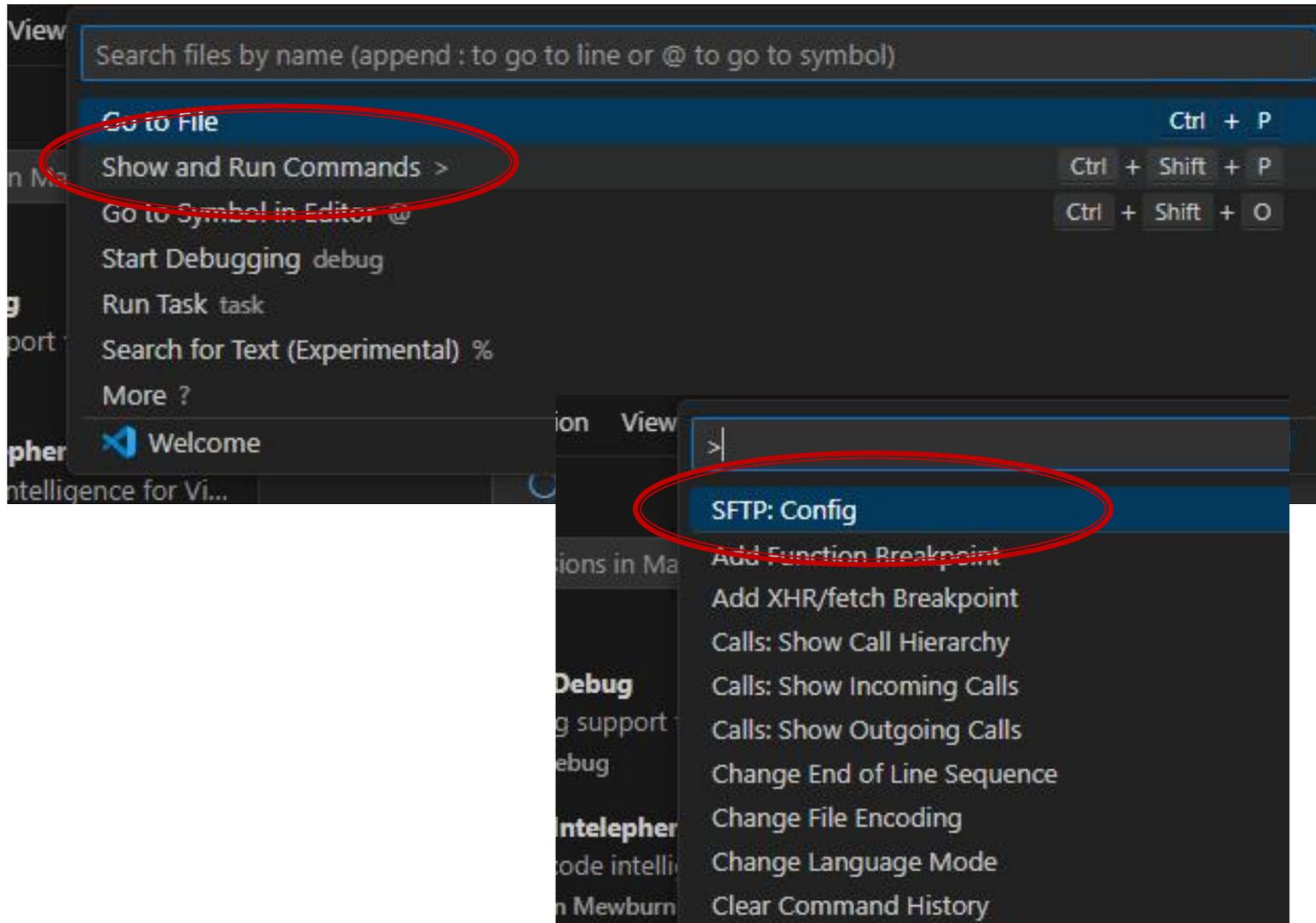


Visual Studio Code

- Extensii instalate
 - PHP Intelephense
 - PHP 8 -> Debian
 - PHP Debug (inactiv momentan)
 - SFTP – salvare automata pe un server



Visual Studio Code

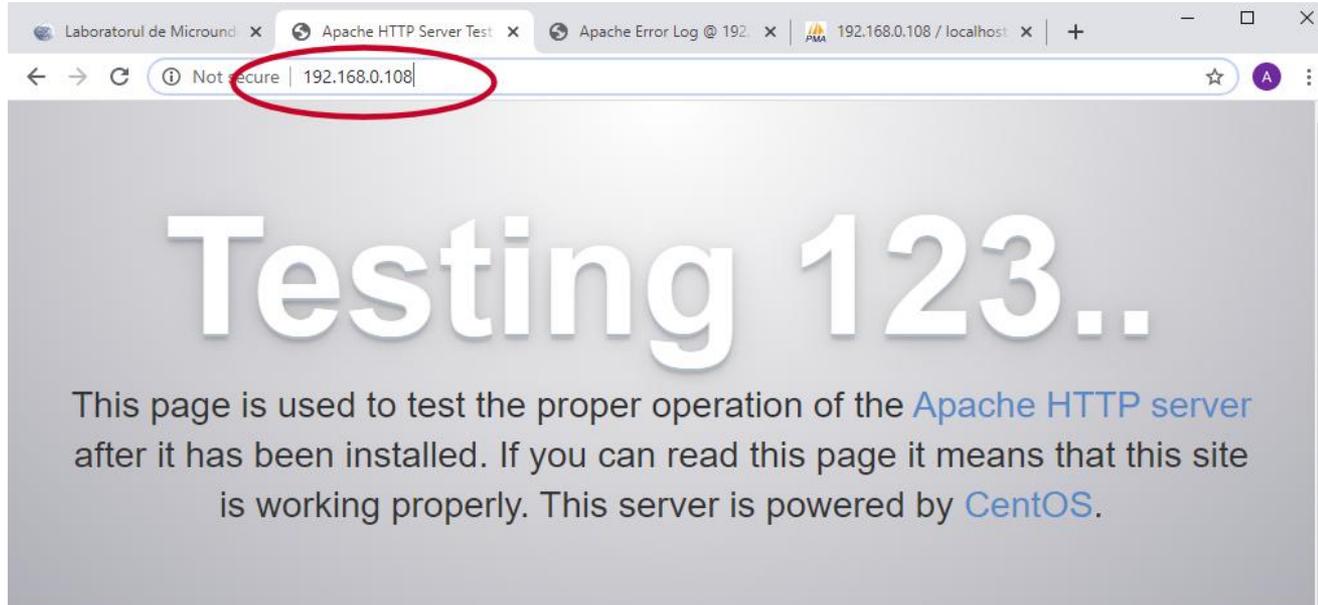


Visual Studio Code

```
{ } sftp.json x
.vscode > { } sftp.json > ...
1 {
2   "name": "My Server",
3   "host": "localhost",
4   "protocol": "sftp",
5   "port": 22,
6   "username": "username",
7   "remotePath": "/",
8   "uploadOnSave": false,
9   "useTempFile": false,
10  "openSsh": false
11 }
12
```

```
{ } sftp.json ●
.vscode > { } sftp.json > ...
1 {
2   "name": "Debian Server",
3   "host": "192.168.30.5",
4   "protocol": "sftp",
5   "port": 22,
6   "username": "student",
7   "remotePath": "/var/www/html/",
8   "uploadOnSave": true,
9   "useTempFile": false,
10  "openSsh": false
11 }
12
```

Browser



Just visiting?

The website you just visited is either experiencing problems or is undergoing routine maintenance.

If you would like to let the administrators of this website know that you've seen this page instead of the page you expected, you should send them e-mail. In general, mail sent to the name "webmaster" and directed to the website's domain should reach the appropriate person.

For example, if you experienced problems while visiting `www.example.com`, you should send e-mail to "webmaster@example.com".

Are you the Administrator?

You should add your website content to the directory `/var/www/html/`.

To prevent this page from ever being used, follow the instructions in the file `/etc/httpd/conf.d/welcome.conf`.

Promoting Apache and CentOS

You are free to use the images below on Apache and CentOS Linux powered HTTP servers. Thanks for using Apache and CentOS!



Server MySQL/MariaDB

The screenshot displays the phpMyAdmin web interface in a browser. The address bar shows the URL `192.168.0.108/phpmyadmin/...`, which is circled in red. The interface is titled "Server: localhost" and features a navigation menu with options: Databases, SQL, Status, Users, Export, Import, Settings, and More. The main content area is divided into several panels:

- General Settings:** Includes a "Change password" link and a "Server connection collation" dropdown menu set to "utf8mb4_unicode_ci".
- Appearance Settings:** Includes a "Language" dropdown set to "English", a "Theme" dropdown set to "pmahomme", and a "Font size" dropdown set to "82%". A "More settings" link is also present.
- Database server:** Lists server details: Server: Localhost via UNIX socket, Server type: MariaDB, Server version: 5.5.44-MariaDB - MariaDB Server, Protocol version: 10, User: root@localhost, and Server charset: UTF-8 Unicode (utf8).
- Web server:** Lists web server details: Apache/2.4.6 (CentOS) OpenSSL/1.0.1e-fips mod_fcgid/2.3.9 PHP/5.4.16 mod_python/3.5.0- Python/2.7.5, Database client version: libmysql - 5.5.44-MariaDB, PHP extension: mysqli, and PHP version: 5.4.16.
- phpMyAdmin:** Lists version information: 4.4.15.1, and provides links for Documentation, Wiki, Official Homepage, Contribute, Get support, and List of changes.

A sidebar on the left shows a tree view of databases: information_schema, mysql, performance_schema, tmpaw, and world.

Contact

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