DESIGN IT, DEVELOP IT, DEPLOY IT IT (3DI)

Building the next generation cyber security competition platform
BiBiFi 2.0

- Requirements Document
- Application Development
- Automated Benchmarking

Build It

Break It

Fix It

- Exchange of applications
- HACK!
- Verification of hacks

- Exchange of hacks
- Fixing the vulnerabilities
- Verification of fixes
## BiBiFi 2.0

### Scoreboard S2017

#### Builder Scores

<table>
<thead>
<tr>
<th>Team</th>
<th>Build-It Round</th>
<th>Break-It Round</th>
<th>Pin-It Round</th>
<th>Total Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workout_Mosquito</td>
<td>976.19074300218</td>
<td>375</td>
<td>250</td>
<td>851.19074500218</td>
</tr>
<tr>
<td>DAAG</td>
<td>662.383313903792</td>
<td>350</td>
<td>350</td>
<td>712.383319003792</td>
</tr>
<tr>
<td>Diffus</td>
<td>546.213999974933</td>
<td>425</td>
<td>250</td>
<td>571.213999974933</td>
</tr>
<tr>
<td>myFirstBiFiTeam</td>
<td>731.19939995997</td>
<td>400</td>
<td>175</td>
<td>506.19939995997</td>
</tr>
<tr>
<td>1337</td>
<td>680.376943974684</td>
<td>450</td>
<td>250</td>
<td>298.376943974684</td>
</tr>
<tr>
<td>N_B</td>
<td>611.1405296816677</td>
<td>375</td>
<td>—</td>
<td>245.1405296816677</td>
</tr>
</tbody>
</table>

#### Breaker Scores

<table>
<thead>
<tr>
<th>Team</th>
<th>Build-It Round</th>
<th>Break-It Round</th>
<th>Pin-It Round</th>
<th>Total Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAAG</td>
<td>25</td>
<td>775</td>
<td>—</td>
<td>594.100000000000</td>
</tr>
<tr>
<td>Workout_Mosquito</td>
<td>25</td>
<td>700</td>
<td>—</td>
<td>427.000000000000</td>
</tr>
<tr>
<td>myFirstBiFiTeam</td>
<td>0</td>
<td>650</td>
<td>—</td>
<td>373.000000000000</td>
</tr>
<tr>
<td>1337</td>
<td>25</td>
<td>450</td>
<td>—</td>
<td>289.500000000000</td>
</tr>
<tr>
<td>Diffus</td>
<td>50</td>
<td>400</td>
<td>—</td>
<td>231.25</td>
</tr>
<tr>
<td>N_B</td>
<td>0</td>
<td>—</td>
<td>—</td>
<td>0</td>
</tr>
</tbody>
</table>
Previous shortcomings

- Unmaintainable
- No security checks
- Not extendable
- Hard to deploy
- Lack of documentation
Next step up

- Popular web-dev language
  - Unmaintainable
  - State-of-the-art frameworks
- Deployment scripts
  - Hard to deploy
  - Containerize
- Static analysis tools
  - No security checks
- Automated pen-tests
- API documentation
  - Lack of documentation
- Modular architecture
  - Not extendable
  - Design patterns
- DevOps documentation
- User Guide
- State-of-the-art frameworks
- Static analysis tools
- Automated pen-tests
- API documentation
- Modular architecture
- Not extendable
- Design patterns
What to expect

- Lots of real-world software development!
- Emphasis on testing and documentation
- Exposure to state-of-the-art web technologies
- Bringing cutting edge research tools into practice
- Learn about cyber security and static program analysis
- Run like a start-up!
We are looking forward to you joining our project group!