



Cybersecurity Concepts

CSF Q2P6 Midterm Freelance

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1  File: index.html
2
3  <!DOCTYPE html>
4  <html lang="en">
5
6  <head>
7      <meta charset="UTF-8">
8      <meta name="viewport" content="width=device-width, initial-scale=1.0">
9      <meta http-equiv="X-UA-Compatible" content="ie=edge">
10     <link rel="stylesheet" href="style.css" type="text/css" />
11     <link rel="preconnect" href="https://fonts.googleapis.com">
12     <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
13     <link href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300;400&display=swap" rel="stylesheet">
14     <title>Cybersecurity Concepts</title>
15 </head>
16
17 <body>
18     <header>
19         <h1>Cybersecurity Concepts</h1>
20     </header>
21
22     <section class="gallery">
23         <div class="post">
24             <h2>Defense in Depth</h2>
25             </img>
26             <p>A comprehensive strategy of including multiple layers of security
27                 within a system so that if one layer fails, another layer of security is already
28                 stop the attack/unauthorized access. Examples:</p>
29             <ol>
30                 <li>A castle is secured by a moat, a drawbridge, and guards at the gate.</li>
31                 <li>Your home computer is secured by locks on the door, an alarm system, and a
32                     firewall.</li>
33                 <li>Company data is secured by a firewall, passwords, and encryption.</li>
34             </ol>
35         </div> <!-- Close post 1 -->
36
37         <div class="post">
38             <h2>Confidentiality</h2>
39             </img>
40             <p>The property that information is not disclosed to individuals,
41                 devices, or processes unless they have been authorized to access the information
42             </p>
43             <ul>
44                 <li>Student grades can only be accessed by specific individuals within the
45                     organization, such as authorized teachers and the principal.
46                 </li>
47                 <li>At a hospital, medical information about a patient is protected and only provided
48                     to authorized personnel.
49                 </li>
50                 <li>Salary information is typically only available to authorized personnel within the
51                     company, such as the supervisor and human resources.</li>
52             </ul>

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52 </div> <!-- Close post 2 -->
53
54 <div class="post">
55   <h2>Integrity</h2>
56   </img>
57   <p>The property that information, an information system, or a component of a
58     system has not been modified or destroyed in an unauthorized manner.</p>
59   <ul>
60     <li>Student grades are accurate and have not been modified by an unauthorized user.</li>
61     <li>A website is the entity it claims to be.</li>
62     <li>A computer system is virus-free and uncompromised.</li>
63   </ul>
64 </div> <!-- Close post 3 -->
65
66 <div class="post">
67   <h2>Availability</h2>
68   </img>
69   <p>The property that information or information systems are accessible
70     and usable upon demand.
71   </p>
72   <ol>
73     <li>A student's grades can be viewed by the student and principal and modified by the teacher.
74     </li>
75     <li>A website for a store allows orders to be placed and viewed.
76     </li>
77     <li>A banking system is appropriately accessible by both customers and banking employees.
78     </li>
79     <li>A Denial-of-Service attack can result in a system being unavailable and inaccessible.
80     </li>
81   </ol>
82 </div> <!-- Close post 4 -->
83
84 <div class="post">
85   <h2>Think like an Adversary</h2>
86   </img>
87   <p>The strategy of putting yourself inside the mindset of a potential attacker that
88     </p>
89     <ul>
90       <li>In order to best protect a student's data, it is useful to think of potential adversaries and their motivations, such as a student wishing harm on another student seeking to modify his own data, and consider possible strategies - like access, etc. and build your security strategy accordingly.
91       </li>
92       <li>Discussions on ethics of a cybersecurity professional must correlate with an activity in which adversarial thinking is being modeled.
93       </li>
94     </ul>
95 </div> <!-- Close post 5 -->
96
97 <div class="post">
```

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108     <h2>Keep It Simple</h2>
109     </img>
110     <p>The strategy of designing information and security systems to be
111         configured and operated as simply as possible; all systems perform best when the
112     </p>
113     <ul>
114         <li>A complex alarm system can have many points of failure, including the hardware
115             and the software.
116
117         </li>
118         <li>A complex computer system has many points of access and may be difficult to
119             secure. A simple solution is often the best strategy.
120
121         </li>
122     </ul>
123 </div> <!-- Close post 6 -->
124 </section> <!-- Close gallery class -->
125
126
127 <footer>
128     <div class="source">
129         <cite>Content by:</cite>
130         <p><a href="https://www.gen-cyber.com/">GenCyber Academy</a></p>
131     </div>
132     <br />
133     <div class="source">
134         <cite>Mobile Phone:</cite>
135         <p>Image by <a href="https://pixabay.com/users/funkyfocus-3900817/?utm_source=link-attribution&utm_medium=referral&utm_campaign=paid_advertising">funkyfocus</a></p>
136     </div>
137     <br />
138     <div class="source">
139         <cite>Stamp:</cite>
140         <p>Image by <a href="https://pixabay.com/users/tayebmezahdia-4194100/?utm_source=link-attribution&utm_medium=referral&utm_campaign=paid_advertising">tayebmezahdia</a></p>
141     </div>
142     <br />
143     <div class="source">
144         <cite>Digitization:</cite>
145         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribution&utm_medium=referral&utm_campaign=paid_advertising">geralt</a></p>
146     </div>
147     <div class="source">
148         <cite>Laptop Keyboard:</cite>
149         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribution&utm_medium=referral&utm_campaign=paid_advertising">geralt</a></p>
150     </div>
151     <div class="source">
152         <cite>Binary:</cite>
153         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribution&utm_medium=referral&utm_campaign=paid_advertising">geralt</a></p>
154     </div>
155     <div class="source">
156         <cite>Lock:</cite>
157         <p>Image by <a href="https://pixabay.com/users/janbaby-3005373/?utm_source=link-attribution&utm_medium=referral&utm_campaign=paid_advertising">janbaby</a></p>
158     </div>
159 </footer>
160
161 </body>
162
163

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164 </html>
165
166 File: style.css
167
168 /* Color Palette:
169 Primary: #FFFBEB
170 Secondary: #495579
171 Tertiary: #263159
172 Accent: #251749
173 */
174
175 html {
176     margin: 0;
177     padding: 0;
178     box-sizing: border-box;
179 }
180
181 body {
182     background-color: #251749;
183     font-family: 'Open Sans', sans-serif;
184 }
185
186 header {
187     background-color: #495579;
188     color: #fff;
189     padding: 1.5rem;
190     margin: 1.2rem;
191 }
192
193 footer {
194     background-color: #FFFBEB;
195     margin: 1.2rem;
196     padding: 1.5rem;
197     font-size: 0.55rem;
198 }
199
200 h1,
201 h2 {
202     text-align: center;
203 }
204
205 img {
206     max-width: 100%;
207     height: auto;
208     border-radius: 2rem;
209 }
210
211 li {
212     padding: 0.2rem;
213 }
214
215 .post {
216     background-color: #FFFBEB;
217     margin: 1.2rem;
218     padding: 1.5rem;
219     line-height: 2rem;
```

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220 | }
221 |
222 | .post p {
223 |     text-indent: 1.2rem;
224 | }
225 |
226 | .source {
227 |     letter-spacing: 1px;
228 | }
229 |
230 | .source a {
231 |     text-decoration: none;
232 |     color: #495579;
233 | }
234 |
235 | @media (min-width: 800px) {
236 |     .gallery {
237 |         display: flex;
238 |         flex-wrap: wrap;
239 |         justify-content: space-around;
240 |     }
241 |
242 |     .post {
243 |         width: 25%;
244 |         font-size: 1.1rem;
245 |     }
246 |
247 |     footer{
248 |         display: flex;
249 |         justify-content: space-around;
250 |         align-items: center;
251 |         font-size: 0.7rem;
252 |     }
253 | }
```