

MTR & Test Cybersecurity Concepts

Midterm P6 - Walkthrough & Test

```
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=
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 i
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       <ul>
43         <li>Student grades can only be accessed by specific individuals within the
44           organization, such as authorized teachers and the principal.</li>
45         <li>At a hospital, medical information about a patient is protected and only provi
46           to authorized personnel.</li>
47         <li>Salary information is typically only available to authorized personnel within
48           company, such as the supervisor and human resources.</li>
49       </ul>
50     </div> <!-- Close post 2 -->
51
```

```
52 <div class="post">
53   <h2>Integrity</h2>
54   </img>
55   <p>The property that information, an information system, or a component of a
56     system has not been modified or destroyed in an unauthorized manner.</p>
57   <ul>
58     <li>Student grades are accurate and have not been modified by an unauthorized user
59     <li>A website is the entity it claims to be.</li>
60     <li>A computer system is virus-free and uncompromised.</li>
61   </ul>
62 </div> <!-- Close post 3 -->
63
64 <div class="post">
65   <h2>Availability</h2>
66   </img>
67   <p>The property that information or information systems are accessible
68     and usable upon demand.</p>
69   <ul>
70     <li>A student's grades can be viewed by the student and principal and modified by
71     the teacher.</li>
72     <li>A website for a store allows orders to be placed and viewed.</li>
73     <li>A banking system is appropriately accessible by both customers and banking
74     employees.</li>
75     <li>A Denial-of-Service attack can result in a system being unavailable and inacce
76   </ul>
77 </div> <!-- Close post 4 -->
78
79 <div class="post">
80   <h2>Think Like an Adversary</h2>
81   </img>
82   <p>The strategy of putting yourself inside the mindset of a potential attacker that al
83   <ul>
84     <li>In order to best protect a student's data, it is useful to think of potential
85     <li>Discussions on ethics of a cybersecurity professional must correlate with any
86   </ul>
87 </div> <!-- Close post 5 -->
88
89 <div class="post">
90   <h2>Keep It Simple</h2>
91   </img>
92   <p>The strategy of designing information and security systems to be configured and ope
93   <ul>
94     <li>A complex alarm system can have many points of failure, including the hardware
95     <li>A complex computer system has many points of access and may be difficult to se
96   </ul>
97 </div> <!-- Close post 6 -->
98 </section> <!-- Close gallery class -->
99
100 <footer>
101   <div class="source">
102     <cite>Content by:</cite>
103     <p><a href="https://www.gen-cyber.com/">GenCyber Academy</a></p>
104   </div>
105   <br />
106   <div class="source">
107     <cite>Mobile Phone:</cite>
```

```
108         <p>Image by <a href="https://pixabay.com/users/funkyfocus-3900817/?utm_source=link-att
109             from <a href="https://pixabay.com/?utm_source=link-attribution&utm_medium=ref
110     </div>
111     <br />
112     <div class="source">
113         <cite>Stamp:</cite>
114         <p>Image by <a href="https://pixabay.com/users/tayebmezahdia-4194100/?utm_source=link-
115             from <a href="https://pixabay.com/?utm_source=link-attribution&utm_medium=ref
116     </div>
117     <br />
118     <div class="source">
119         <cite>Digitization:</cite>
120         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributio
121             from <a href="https://pixabay.com/?utm_source=link-attribution&utm_medium=ref
122     </div>
123     <br>
124     <div class="source">
125         <cite>Availability:</cite>
126         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributio
127             from <a href="https://pixabay.com/?utm_source=link-attribution&utm_medium=ref
128     </div>
129     <br>
130     <div class="source">
131         <cite>Adversary:</cite>
132         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attributio
133             from <a href="https://pixabay.com/?utm_source=link-attribution&utm_medium=ref
134     </div>
135     <br>
136     <div class="source">
137         <cite>Keep It Simple:</cite>
138         <p>Image by <a href="https://pixabay.com/users/janbaby-3005373/?utm_source=link-attrib
139             from <a href="https://pixabay.com/?utm_source=link-attribution&utm_medium=ref
140     </div>
141 </footer>
142
143 </body>
144
145 </html>
146
147
148 File: style.css
149
150 /* Color Palette:
151 primary:    #FFFBEB
152 secondary:  #495579
153 tertiary:   #263159
154 accent:     #251749
155 */
156
157 html {
158     margin: 0;
159     padding: 0;
160     box-sizing: border-box;
161 }
162
163 body {
```

```
164     background-color: #251749;
165     font-family: 'Open Sans', sans-serif;
166 }
167
168 header {
169     background-color: #495579;
170     color: #fff;
171     padding: 1.5rem;
172     margin: 1.2rem;
173 }
174
175 footer {
176     background-color: #FFFBEB;
177     margin: 1.2rem;
178     padding: 1.5rem;
179     font-size: 0.55rem;
180 }
181
182 h1,
183 h2 {
184     text-align: center;
185 }
186
187 img {
188     max-width: 100%;
189     height: auto;
190     border-radius: 2rem;
191 }
192
193 li {
194     padding: 0.2rem;
195 }
196
197 .post {
198     background-color: #FFFBEB;
199     margin: 1.2rem;
200     padding: 1.5rem;
201     line-height: 2rem;
202 }
203
204 .post p {
205     text-indent: 1.2rem;
206 }
207
208 .source {
209     letter-spacing: 1px;
210 }
211
212 .source a {
213     text-decoration: none;
214     color: #495579;
215 }
216
217
218
219
```

```
220
221
222
223 @media (min-width: 800px) {
224     .gallery {
225         display: flex;
226         flex-wrap: wrap;
227         justify-content: space-around;
228     }
229
230     .post {
231         width: 25%;
232         font-size: 1.1rem;
233     }
234
235     footer {
236         display: flex;
237         justify-content: space-around;
238         align-items: center;
239         font-size: 0.7rem;
240     }
241 }
```

PDF document made with CodePrint using [Prism](https://bakerfranke.github.io/codePrint/)