

# Cybersecurity Concepts

CSF Q2P1 walk-through

```
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 and usable upon
68   <ul>
69     <li>A student's grades can be viewed by the student and principal and modified by
70     <li>A website for a store allows orders to be placed and viewed.</li>
71     <li>A banking system is appropriately accessible by both customers and banking emp
72     <li>A Denial-of-Service attack can result in a system being unavailable and inacce
73   </ul>
74 </div> <!-- CLOSE POST 4 -->
75
76 <div class="post">
77   <h2>Think Like an Adversary</h2>
78   </img>
79   <p>The strategy of putting yourself inside the mindset of a potential attacker that al
80   <ul>
81     <li>In order to best protect a student's data, it is useful to think of potential
82       adversaries and their motivations, such as a student wishing harm on another,
83       student seeking to modify his own data, and consider possible strategies - bre
84       access, etc. and build your security strategy accordingly.
85     </li>
86     <li>Discussions on ethics of a cybersecurity professional must correlate with any
87   </ul>
88 </div> <!-- CLOSE POST 5 -->
89
90 <div class="post">
91   <h2>Keep It Simple</h2>
92   </img>
93   <p>The strategy of designing information and security systems to be configured and ope
94   <ul>
95     <li>A complex alarm system can have many points of failure, including the hardware
96     <li>A complex computer system has many points of access and may be difficult to se
97   </ul>
98 </div> <!-- CLOSE POST 6 -->
99
100 </section> <!-- CLOSE GALLERY CLASS -->
101
102 <footer>
103   <div class="source">
104     <cite>Content by:</cite>
105     <p><a href="https://www.gen-cyber.com">GenCyber Academy</a></p>
106   </div>
107   <br />
```

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

```
164
165 header {
166     background-color: #495579;
167     color: #fff;
168     padding: 1.5rem;
169     margin: 1.2rem;
170 }
171
172 footer {
173     background-color: #FFFBEB;
174     margin: 1.2rem;
175     padding: 1.5rem;
176     font-size: 0.55rem;
177 }
178
179 h1,
180 h2 {
181     text-align: center;
182 }
183
184 img {
185     max-width: 100%;
186     height: auto;
187     border-radius: 2rem;
188 }
189
190 li {
191     padding: 0.2rem;
192 }
193
194 .post {
195     background-color: #FFFBEB;
196     margin: 1.2rem;
197     padding: 1.5rem;
198     line-height: 2rem;
199 }
200
201 .post p {
202     text-indent: 1.2rem;
203 }
204
205 .source {
206     letter-spacing: 1px;
207 }
208
209 .source a {
210     text-decoration: none;
211     color: #495579;
212 }
213
214
215 @media (min-width: 800px) {
216     .gallery {
217         display: flex;
218         flex-wrap: wrap;
219         justify-content: space-around;
```

```
220     }
221
222     .post {
223         width: 25%;
224         font-size: 1.1rem;
225     }
226
227     footer {
228         display: flex;
229         justify-content: space-around;
230         align-items: center;
231         font-size: 0.7rem;
232     }
233 }
```

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