



Cybersecurity Concepts

```
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 href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300;400&display=swap" rel="stylesheet">
12  <title>Cybersecurity Concepts</title>
13 </head>
14
15 <body>
16
17   <header>
18     <h1>Cybersecurity Concepts</h1>
19   </header>
20
21   <section class="gallery">
22     <div class="post">
23       <h2>Defense in Depth</h2>
24       </img>
25       <p>A comprehensive strategy of including multiple layers of security within a system so that if one layer fails, another layer will catch the error.</p>
26       <ol>
27         <li>A castle is secured by a moat, a drawbridge, and guards at the gate.</li>
28         <li>Your home computer is secured by locks on the door, an alarm system, and a firewall.</li>
29         <li>Company data is secured by a firewall, passwords, and encryption.</li>
30       </ol>
31     </div>
32     <!--Close Part 1-->
33
34     <div class="post">
35       <h2>Confidentiality</h2>
36       </img>
37       <p>The property that information is not disclosed to individuals, devices, or processes unless they have been authorized.</p>
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38     <ul>
39         <li>Student grades can only be accessed by specific individuals within the organization, such as authorized teach
40         <li>At a hospital, medical information about a patient is protected and only provided to authorized personnel.</li>
41         <li>Salary information is typically only available to authorized personnel within a company, such as the supervis
42     </ul>
43 </div>
44 <!--Close Part 2-->
45
46 <div class="post">
47     <h2>Integrity</h2>
48     </img>
49     <p>The property that information, an information system, or a component of a system has not been modified or destroyed
50     <ul>
51         <li>Student grades are accurate and have not been modified by an unauthorized user.</li>
52         <li>A website is the entity it claims to be.</li>
53         <li>A computer system is virus-free and uncompromised.</li>
54     </ul>
55
56 </div>
57 <!--Close Part 3-->
58 <div class="post">
59     <h2>Availability</h2>
60     </img>
61     <p>The property that information or information systems are accessible and usable upon demand.</p>
62     <ul>
63         <li>A student's grades can be viewed by the student and principal and modified by the teacher.</li>
64         <li>A website for a store allows orders to be placed and viewed.</li>
65         <li>A banking system is appropriately accessible by both customers and banking employees.</li>
66         <li>A Denial-of-Service attack can result in a system being unavailable and inaccessible.</li>
67     </ul>
68 </div>
69 <!--Close Part 4-->
70 <div class="post">
71     <h2>Think Like an Adversary</h2>
72     </img>
73     <p>The strategy of putting yourself inside the mindset of a potential attacker that allows you to anticipate attack s
74     <ul>
75         <li>In order to best protect a student's data, it is useful to think of potential adversaries and their motivatio
76
77
78         <li>Discussions on ethics of a cybersecurity professional must correlate with any activity in which adversarial t
79     </ul>

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80     </div>
81     <!--Close Part 5-->
82     <div class="post">
83         <h2>Keep It Simple</h2>
84         </img>
85         <p>The strategy of designing information and security systems to be configured and operated as simply as possible; al
86         <ul>
87             <li>A complex alarm system can have many points of failure, including the hardware and the software.</li>
88             <li>A complex computer system has many points of access and may be difficult to secure. A simple solution is ofte
89         </ul>
90     </div>
91     <!--Close Part 6-->
92 </section>
93 <!--Close Gallery-->
94
95 <footer>
96     <div class="source">
97         <cite>Content by:</cite>
98         <p><a href="https://www.gen-cyber.com/">GenCyber Academy</a></p>
99     </div>
100    <br>
101    <div class="source">
102        <cite>MobilePhone: - Image by</cite>
103        <p>
104            <a href="https://pixabay.com/users/funkyfocus-3900817/?utm_source=link-attribution&utm_medium=referral&utm_campaign=
105        </div>
106    <br>
107    <div class="source">
108        <cite>Stamp: - Image by</cite>
109        <p>
110            <a href="https://pixabay.com/users/tayebmezahdia-4194100/?utm_source=link-attribution&utm_medium=referral&utm_campaign=
111        </p>
112    </div>
113    <div class="source">
114        <br>
115        <cite>Digitization: - Image by</cite>
116        <p>
117            <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribution&utm_medium=referral&utm_campaign=
118        </p>
119    </div>
120    <div class="source">
121        <br>

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122         <cite>Keyboard: - Image by</cite>
123         <p>
124             <a href="https://pixabay.com/users/geraldt-9301/?utm_source=link-attribution&utm_medium=referral&utm_campa
125         </p>
126     </div>
127     <div class="source">
128         <br>
129         <cite>World Wide Web: - Image by</cite>
130         <p>
131             <a href="https://pixabay.com/users/geraldt-9301/?utm_source=link-attribution&utm_medium=referral&utm_campa
132
133         </p>
134     </div>
135     <div class="source">
136         <br>
137         <cite>Lock: - Image by</cite>
138         <p>
139             <a href="https://pixabay.com/users/janbaby-3005373/?utm_source=link-attribution&utm_medium=referral&utm_c
140         </p>
141     </div>
142
143 </footer>
144
145 </body>
146
147 </html>
148
149
150 file: style.css
151
152 /* Color Palette:
153 primary: #FFFBEB
154 secondary: #495579
155 tertiary: #263159
156 accent: #251749
157 */
158
159 html {
160     margin: 0;
161     padding: 0;
162     box-sizing: border-box;
163 }
```

```
164
165 body {
166     background-color: #251749;
167     font-family: 'Open Sans', sans-serif;
168 }
169
170 header {
171     background-color: #495579;
172     color: #FFF;
173     padding: 1.5rem;
174     margin: 1.2rem;
175 }
176
177 footer {
178     background-color: #FFFBEB;
179     margin: 1.2rem;
180     padding: 1.5rem;
181     font-size: 0.55rem;
182 }
183
184 h1,
185 h2 {
186     text-align: center;
187 }
188
189 img {
190     max-width: 100%;
191     height: auto;
192     border-radius: 2rem;
193 }
194
195 li {
196     padding: 0.2rem;
197 }
198
199 .post {
200     background-color: #FFFBEB;
201     margin: 1.2rem;
202     padding: 1.5rem;
203     line-height: 2rem;
204 }
205
```

```
206 .post p {
207     text-indent: 1.2rem;
208 }
209
210 .source {
211     letter-spacing: 1px;
212 }
213
214 .source a {
215     text-decoration: none;
216     color: #495579;
217 }
218
219 @media (min-width: 800px) {
220
221     .gallery {
222         display: flex;
223         flex-wrap: wrap;
224         justify-content: space-around;
225     }
226
227     .post {
228         width: 25%;
229         font-size: 1.1rem;
230     }
231
232     footer {
233         display: flex;
234         justify-content: space-around;
235         align-items: center;
236         font-size: 0.7rem;
237     }
238 }
```