

Cybersecurity Concepts.

```
1 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" re
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 informatio
42       <ul>
43         <li>Student grades can only be accessed by specific individuals within the
44           organization, such as authorized teachers and the principal.
45         </li>
46         <li>At a hospital, medical information about a patient is protected and only pro
47           to authorized personnel.
48         </li>
49         <li>Salary information is typically only available to authorized personnel withi
50           company, such as the supervisor and human resources.</li>
51       </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 us
61     </li>
62     <li>A website is the entity it claims to be.
63     </li>
64     <li>A computer system is virus-free and uncompromised.</li>
65   </ul>
66 </div> <!-- Close post 3 -->
67
68 <div class="post">
69   <h2>Availability</h2>
70   </img>
71   <p>The property that information or information systems are accessible
72     and usable upon demand.
73   </p>
74   <ol>
75     <li>A student's grades can be viewed by the student and principal and modified by
76       the teacher.
77     </li>
78     <li>A website for a store allows orders to be placed and viewed.
79     </li>
80     <li>A banking system is appropriately accessible by both customers and banking
81       employees.
82     </li>
83     <li>A Denial-of-Service attack can result in a system being unavailable and inac
84     </li>
85   </ol>
86 </div> <!-- Close post 4 -->
87
88 <div class="post">
89   <h2>Think like an Adversary</h2>
90   </img>
91   <p>The strategy of putting yourself inside the mindset of a potential attacker that
92   </p>
93   <ul>
94     <li>In order to best protect a student's data, it is useful to think of potentia
95       adversaries and their motivations, such as a student wishing harm on another
96       student seeking to modify his own data, and consider possible strategies – k
97       access, etc. and build your security strategy accordingly.
98     </li>
99     <li>Discussions on ethics of a cybersecurity professional must correlate with ar
100       activity in which adversarial thinking is being modeled.
101     </li>
102   </ul>
103 </div> <!-- Close post 5 -->
104
105 <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-c
136             from <a href="https://pixabay.com//?utm_source=link-attribution&utm_medium=r
137     </div>
138     <br />
139     <div class="source">
140         <cite>Stamp:</cite>
141         <p>Image by <a href="https://pixabay.com/users/tayebmezahdia-4194100/?utm_source=lir
142     </div>
143     <br />
144     <div class="source">
145         <cite>Digitization:</cite>
146         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribut
147     </div>
148     <div class="source">
149         <cite>Laptop Keyboard:</cite>
150         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribut
151     </div>
152     <div class="source">
153         <cite>Binary:</cite>
154         <p>Image by <a href="https://pixabay.com/users/geralt-9301/?utm_source=link-attribut
155     </div>
156     <div class="source">
157         <cite>Lock:</cite>
158         <p>Image by <a href="https://pixabay.com/users/janbaby-3005373/?utm_source=link-attr
159     </div>
160 </footer>
161
162 </body>
163

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

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220     line-height: 2rem;
221   }
222
223   .post p {
224     text-indent: 1.2rem;
225   }
226
227   .source {
228     letter-spacing: 1px;
229   }
230
231   .source a {
232     text-decoration: none;
233     color: #495579;
234   }
235
236
237   @media (min-width: 800px) {
238     .gallery {
239       display: flex;
240       flex-wrap: wrap;
241       justify-content: space-around;
242     }
243
244     .post {
245       width: 25%;
246       font-size: 1.1rem;
247     }
248
249     footer {
250       display: flex;
251       justify-content: space-around;
252       align-items: center;
253       font-size: 0.7rem;
254     }
255   }
```