



Security II Quiz

TOTAL POINTS 5

1. Which of the following are ways that Android protects your app (select all that apply)?

1 point

- ☐ It ensures that only secure apps can send Intents to your app.
- ☐ It ensures that security keys that are embedded in your app's binary cannot be accessed by the owner of the device.
- ☒ It ensures data that is stored privately by your app is not accessible to other apps.
- ☐ It ensures that the user of the device cannot access your app's secret preferences.

2. What is the potential security issue with the code shown below (select all that apply)?

1 point

```
1  @Override
2  protected void onCreate(Bundle savedInstanceState) {
3      super.onCreate(savedInstanceState);
4
5      setContentView(R.layout.main);
6
7      // Get the Intent that started this activity
8      Intent intent = getIntent();
9      String uri = intent.getStringExtra("uri");
10     startDownload(uri);
11 }
12
13 public void onDownloadComplete(String downloadedData) {
14     Intent result = ...
15     result.putExtra("data", downloadedData);
16     setResult(Activity.RESULT_OK, result);
17     finish();
18 }
19
```

- ☐ The code may lead to a buffer overflow in the app.
- ☐ The code may lead to a null pointer exception being thrown.
- ☐ The code may lead to storing sensitive data on the SD card.
- ☒ The code may lead to a privilege escalation if the calling app does not have the Internet permission.

3. Security mistakes are made due to which of the following reasons (select all that apply)?

1 point

- ☒ The inherent complexity of software makes it difficult not to make mistakes.
- ☐ Popular software design patterns that improve extensibility and modularity always reduce security.
- ☐ Software developers are never given sufficient time and resources to complete projects and make the code secure.
- ☐ Most developers are lazy and do not care about security.
- ☐ A small number of unskilled software developers typically introduce all security vulnerabilities.

4. On an Android device, when is a Linux user account created (select all that apply)?

1 point

- ☐ when an app requests a permission
- ☐ when an app is launched
- ☐ when someone sets a passcode
- ☒ when an app is installed

5. Which of the following are true on Android (select all that apply)?

1 point

- ☒ Apps can declare new permissions that other apps can use.
- ☐ There is a limited set of permissions that can be used.
- ☒ An app can provide access to a privileged resource to another app.
- ☐ An app can not provide access to a privileged resource to another app unless the other app also has the appropriate uses-permission.

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