Agenda

- Adobe ColdFusion Summit 2024

- Migrating Your ColdFusion Server to ColdFusion 2023
  - ColdFusion 2023 Migration Considerations
  - ColdFusion 2023 Migration Tips
  - Installing ColdFusion 2023 Core Server and Package Updates Via the Command Line

- Adding a ColdFusion Snippets File to VS Code to Turbocharge Your Adobe Security Analyzer Findings Remediation

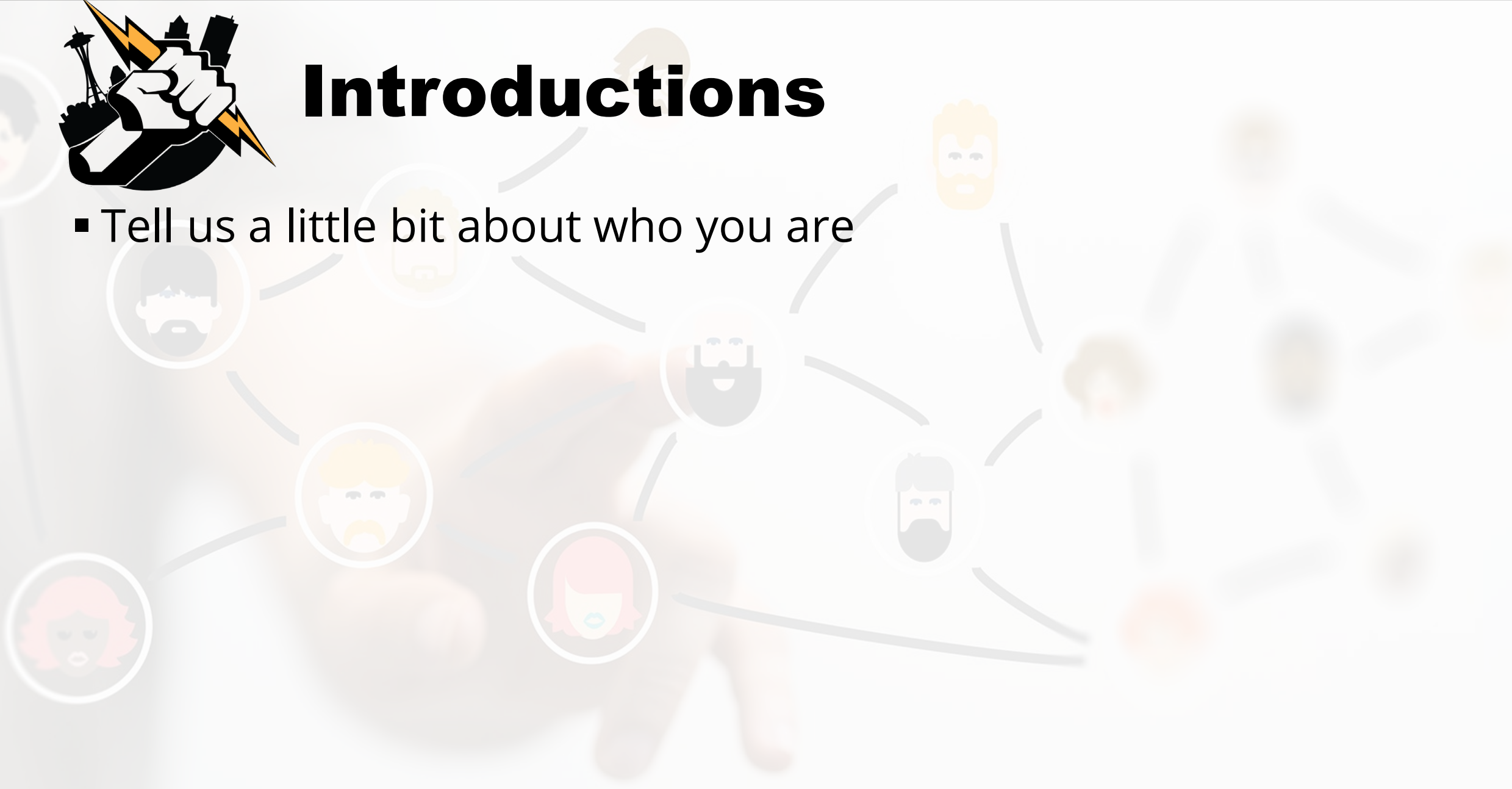- Questions/Answers/Help Needed

- Next Meeting

Adobe ColdFusion Summit 2024

- Dates: September 30th – October 1st
- Venue: Resorts World – Las Vegas
- ColdFusion Certification Training & Test – October 2nd
- Registration: https://cfsummit.adobeevents.com/

Introductions

- Tell us a little bit about who you are

ColdFusion 2023 Migration Considerations

- All versions of Adobe ColdFusion had allowed for setting output variables as follows:

thisVariable = 5

<cfoutput>#EncodeForHTML(thisVariable)#</cfoutput>

Unscoped variables are no longer allowed by default with the latest security patches to ColdFusion 2023

ColdFusion 2023 Migration Considerations

- The default encryption algorithm in ColdFusion has changed from **CFMX_COMPAT** to AES/CBC/PKCS5Padding for the following functions:
  - Encrypt
  - EncryptBinary
  - Decrypt
  - DecryptBinary

- The **CFMX_COMPAT** algorithm is still available. It is just not the default algorithm. You can use CFMX_COMPAT to change the encryption algorithm to a supported algorithm.

ColdFusion 2023 Migration Considerations

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1. Retrieve the data.
2. Decrypt using the CFMX_COMPAT algorithm.
3. Encrypt the data again with the new algorithm.
4. Store the data again.

ColdFusion 2023 Migration Considerations

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- The default encryption algorithm of the Hash function has changed from CFMX_COMPAT to SHA-256 hashing algorithm

ColdFusion 2023 Migration Considerations

- What are scoped variables?
  Scoped variables identify the usage for a variable.

  For example:
    - this Scope: Local to a component
    - var Scope: Local to a method/function in a component
    - Form Scope: Form.thisVariable
    - URL Scope: URL.thisVariable
    - Application Scope: Application.thisVariable
    - Session Scope: Session.thisVariable
    - Local Scope: VARIABLES.thisVariable

ColdFusion 2023 Migration Considerations

All variables need to be scoped (unless):

Application.cfc
Add this code:

```
<cfscript>
this.searchimplicitscopes = 'true';
</cfscript>
```

Application.cfm
Add this code

```
<cfapplication searchImplicitScopes="true">
```

ColdFusion 2023 Migration Considerations

- More info on searchImplicitScopes:
  https://www.petefreitag.com/blog/cf-searchimplicitscopes/

ColdFusion 2023 Migration Considerations

- Make sure that any features listed as **Removed Since, or Retired Since** at https://helpx.adobe.com/coldfusion/deprecated-features.html are re-coded

ColdFusion 2023 Migration Tips

- You can create a CAR file to migrate your existing ColdFusion server's settings to the new ColdFusion server. Popups need to be enabled in your web browser

CAR Demo

NOTE: Be mindful when creating your CAR file to only include the Java settings if they are going to be exactly the same on the new server. If they are different, your Java HOME will be changed to what was on the old server and your ColdFusion server might not start.

ColdFusion 2023 Migration Tips

- You can silently install ColdFusion. This will creating a properties file and running a command line script from the folder that contains the ColdFusion 2023 installer.
  - ColdFusion_2023_GUI_WWEJ_win64.exe -f cf23install.properties
- You can also include multiple installation commands in a batch file
- More Info: https://helpx.adobe.com/coldfusion/installing/installing-coldfusion-silently.html

ColdFusion 2023 Migration Tips

- Intranet Use Cases:
  If you have a license key that requires communication with Adobe's licensing server each time the server is started, make sure that the server has a connection to the public Internet.

  Otherwise, you will need a license key that does not require communication with Adobe's license servers

ColdFusion 2023 Migration Tips

- Post ColdFusion 2023 Installation Tasks
  - Install CF Core Server Updates
    - Can Install via Package Manager in CF Administrator
    - Can install via command line
      - Download hotfix file
        - Via HotFix web page CF 2023 Update 10 example: https://helpx.adobe.com/coldfusion/kb/coldfusion-2023-update-10.html)

          - or –

        - Via CF Package Manager's **downloadrepo** command (hotfix will be located in the **updateinstallers** folder)

      - Copy the hotfix installers to a folder on your desktop

ColdFusion 2023 Migration Tips

- Post ColdFusion 2023 Installation Tasks
    - Install CF Core Server Updates
        - Can install via command line (continued)
            - Create an install.properties file with the following lines:
              INSTALLER_UI=silent
              USER_INSTALL_DIR=C:/ColdFusion2023
              DOC_ROOT=C:/ColdFusion2023/cfusion/wwwroot
              INSTANCE_LIST=ALL
              DONOT_START_SERVERS_POST_INSTALL=true
            - Save the install.properties file to the same location at the hotfix installer
            - Open a command prompt that points to the folder with the hotfix installer and properties file
            - Stop the ColdFusion server
              C:/ColdFusion2023/cfusion/bin/coldfusion.exe -stop -console

ColdFusion 2023 Migration Tips

- Post ColdFusion 2023 Installation Tasks
  - Install CF Core Server Updates
    - Can install via command line (continued)
      - Use the following command to install the update (example – CF 2023 Update 10): C:/ColdFusion2023/jre/bin/java -jar " hotfix-010-330680.jar" -i silent -f "install.properties"
  - Install package updates via CF Administrator or command line via CF Package Manager – command: installall
  - Windows - Configure ColdFusion Connectors with IIS C:/ColdFusion2023/cfusion/runtime/bin/wsconfig.exe -ws iis -site 0 –v
  - Start the CF Server C:/ColdFusion2023/cfusion/bin/coldfusion.exe -stop –console

Adding a ColdFusion Snippets File to VS Code to Turbocharge Your Adobe Security Analyzer Findings Remediation

Will Frankhouser

Adobe Certified Professional – ColdFusion

- VSCode Intellisense
- User Configured Snippets
- Keybinding to the Snippets

More Info: https://code.visualstudio.com/docs/editor/userdefinedsnippets

Questions/Answers/ Help Needed

This is your opportunity to ask any ColdFusion question or request help for a ColdFusion-related issue.

Next Meeting

March 15, 2023 – 5:00 PM PDT (on-line via Zoom).