

Question

[Lucas Bourré](#) · Jul 16, 2020

create a PDF from the DeepSee UserPortal using a headless browser

Hello Community,
I hope you're going well.

I am programming a daily reporting that will send by e-mail when people will add a dashboard as favorite by clicking on the star :



I asked Intersystems WRC on how to automatically generate a report with some line coding, but I heard there is no way to do this without a headless Browser.

I downloaded google-chrome to use the "--headless" and "--print-to-pdf" function , to print the HTML content of my dashboard into a PDF. (I will use \$ZF function to launch the generation).

I also created a delegated application "/userPortal" to be able to use the "ZAUTHENTICATE.mac" routine :

Modifier l'application Web

Enregistrer

Annuler

Modifier la définition pour l'application Web /userPortal:

Général Rôles d'application Rôles correspondants

NAME
Oblig. (ex: /csp/nomapp)

DESCRIPTION

Namespace Application par défaut de CC_BACKEND: /csp/cc_backend ☐ Application par défaut de l'espace de noms

Enable Application ☒

Activer ☐ REST
Distribuer la classe
Obligatoire.

☒ CSP/ZEN
☒ Analytics ☒ Services Web entrants ☐ Prevent login CSRF attack

Paramètres de sécurité

Ressource requise Grouper par ID

Méthodes d'authentification autorisées ☐ Non authentifié ☐ Mot de passe ☐ Kerberos ☒ Délégué ☐ Cookie de connexion

Classes autorisées

Paramètres de session

Délai de session Secondes Classe d'événement .cls

Utiliser cookies pour la session Chemin du cookie de session

Paramètres Fichier CSP

Fichiers du serveur Délai relatif aux fichiers du serveur Secondes

Chemin d'accès physique Parcourir...

Nom du package Superclasse par défaut

Web Settings ☒ Reproduire ☒ Compil auto ☒ Verrouiller le nom CSP

Pages personnalisées

Page de connexion Page Change Password

Page d'erreur personnalisée

I will put as an argument "Username=pdfOutput" . In this way , It will create a delegate user that only have "read permission" to secure a bit my application.

When I open the next URL in Chrome , It opens the DashboardViewer without any problem :

<http://localhost:52773/userPortal/DeepSee.UserPortal.DashboardViewer.zen...>

\$\$\$CM%20consumption.dashboard&IRISUsername=pdfOutput

← → ↺ ⌂ ⓘ localhost:52775/userPortal/_DeepSee.UserPortal.DashboardViewer.zen?DASHBOARD=\$\$\$CM%20consumption.dashboard&DASHBOARD=\$\$\$CM%20consumption.dashboard

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CM consumption

Filtres

Site

Modality

Injector

Date

Favoris

Vous n'avez pas de favoris.

+ Wasted Contrast Media (ml)

name

Total

N/A

Year

+ Volume of each contrast media used per procedure (ml)

procedureType

Total

N/A

name

+ Contrast Media Consumption Gadolinium (ml)

name

N/A

name

+ Contrast Media Consumption Iodine (ml)

name

N/A

name

The URL changed automatically and remove the "Username" part (redirection security ?)

My problem is the next one :

When I try to generate the PDF with the linux command, it shows the "access Denied" error in the PDF it outputs (as attached file):

```
sudo google-chrome-stable --no-sandbox --headless --disable-gpu --print-to-pdf  
http://localhost:52773/userPortal/DeepSee.UserPortal.DashboardViewer.ze...  
$$$CM%20consumption.dashboard&Username=pdfOutput
```

I checked if the ZAUTHENTICATE.mac routine was called, and it is the case (i put a global to see the time and the name of the "username").

It looks like, with a browser, there is a redirection after authentication that can cause the problem.

I checked the Audit database but I don't have any event for my call.

Does anyone have an idea , or have a better way to print a dashboard without a browser?

Thank you in advance.

I wish you a good day.

Lucas Bourré

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