Release document V1.sprint 3 WEEK 4

v1. s3.4

Hotfix 1

Deploy to Live

17 February 2020



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# Release Content

## User Stories

* None

## Defect Fixes

* None

## Hot Fixes

* https://github.com/NMDSdevopsServiceAdm/SopraSteria-SFC/pull/1986 - RATELIMITIMG ISSUE LIVE #1986

# Known Issues

Issues not fixed in this release

## New this release

* T.B.D.

## Outstanding from previous release

* T.B.D.

# Prerequisites and Approval

Please see instruction for staging and then live.

|  |  |  |
| --- | --- | --- |
| **Action** | **Date Completed** | **Sign-off** |
| Testing in Dev | N/A | N/A |
| Testing in Staging | N/A | N/A |
| Testing in PreProd | 17/02/2020 | Jason Lupton |
| Production Pre-deployment Preparation | 17/02/2020 | Paul Carvell |

# Target Environment

To go live: **sfcuatgreen**

# Schedule

The release deployment to Production (go-live) has been scheduled as below

|  |  |  |
| --- | --- | --- |
| **Deployment Date** | **Start Time** | **End Time** |
| 17/02/2020 | 15:30 | 16:00 |

# Technical Deployment Details

## Database Patches and special requirements

* **Important notes for deployment** 
  + This is a fix-forward deployment – **sfcuatgreen** will no longer be available for the rollback of **Release V1 S3.3**
  + Hotfix signed-off for deployment straight to PreProd
  + Feature branch *BE-RATELIMITING-REGISTARTION* will need to be merged into the *develop* and *test* code branches

## Dev and Staging deployments

* **The Skills for Care GitHub codebase has been structured such that, apart from emergency hot-fixes, once completed, development <*feature*> branches are first merged by developer Pull Request into the *develop* code branch for Integrated Unit Testing. The Pull Request will automatically build and deploy to the *sfcdev* environment using Travis CI**
  + Developer completes work in <*feature*> branch
  + Pull Request created to merge <*feature*> branch into *develop* branch
  + Pull Request approved (peer review) and automatically built and deployed to *sfcdev* by Travis CI
  + Integrated Unit Test of feature in <https://sfcdev.cloudapps.digital>
  + Sign-off for deployment to Staging (or return to <*feature*> branch to correct defects)
* **Assuming testing has been successful, the *develop* code branch is then merged by DevOps Pull Request into the *test* code branch for Sprint Testing. The Pull Request will automatically build and deploy to the sfcstaging environment using Travis CI**
  + Pull Request created by Sopra Steria DevOps to merge *develop* branch into *test* branch
  + Pull Request approved (DevOps review) and automatically built and deployed to *sfcstaging* by Travis CI
  + Sprint Test of all features in <https://sfcstaging.cloudapps.digital>
  + Sign-off for deployment to Staging (or return to <*feature*> branches as necessary to correct defects)

## PreProd deployment

* **Perform the following when authorised to do so by Sopra Steria project management (please refer to the deployment notes or perform all PreProd Deployment Tasks using the sfcadmin script)**
  + Pull Request created by developer to merge *hotfix/cqcsharing* branch into *live* branch
  + Pull Request approved (DevOps review)
  + Git Checkout and pull *live* branch to local machine
  + Do npm install and run build
  + Update **sfcuatgreen** database binding to **sfcuatdb02**
  + Restage **sfcuatgreen** application
  + Set variables for **sfcuatgreen**
  + Update manifest.bluegreen.yml for **sfcuatgreen** application
  + Push application to **sfcuatgreen**
  + Sign-off Testing of release in <https://sfcuatgreen.cloudapps.digital>
  + Sign-off for Live deployment to Production (or return to <*feature*> branches as necessary to correct defects)

## Production pre-deployment preparation

* **Perform the following prior to the agreed scheduled deployment time (please refer to the deployment notes or perform all Step 1 Production Deployment Tasks using the sfcadmin script)**
  + Update **sfcuatgreen** database binding to **sfcuatdb01**
  + Restage **sfcuatgreen** application
  + Set variables for **sfcuatblue**
  + Restage **sfcuatgreen** application
  + Smoke Test of <https://sfcuatgreen.cloudapps.digital>
  + Stop **sfcuatgreen**

## Production deployment

* **At the agreed scheduled deployment time perform a witnessed (screen-share using Whereby) live deployment to Production (please refer to the deployment notes or perform all Step 2 Production Deployment Tasks using the sfcadmin script)**
  + Update **sfcoffline** html page - date and time
  + Check active users via Google Analytics
  + Push **sfcoffline** application (and test <https://sfcoffline.cloudapps.digital>)
  + Switch Live Route to **sfcoffline**
  + Test <https://asc-wds.skillsforcare.org.uk> shows offline page
  + Stop **sfcuatblue**
  + Start **sfcuatgreen**
  + Smoke test <https://sfcuatgreen.cloudapps.digital>
  + Switch Live Route to **sfcuatgreen**
  + Smoke test <https://asc-wds.skillsforcare.org.uk>
  + Stop **sfcoffline**
  + Remove <https://sfcuatgreen.cloudapps.digital> URL

# Rollback and post-deployment

## Rollback

* **Should there be issues either during or immediately after the deployment then it may be necessary to perform a rollback to the previous release (most issues will not require rollback and will be resolved by hot-fix, but if an issue is deemed serious enough, then rollback will be required). Perform a witnessed (screen-share using Whereby) emergency rollback to Production (please refer to the deployment notes or perform all Production Emergency Tasks using the sfcadmin script)**
  + Deploy Emergency **sfcoffline** html page
  + Test <https://asc-wds.skillsforcare.org.uk> shows the emergency offline page
  + Update **sfcuatblue** database binding to **sfcuatdb01** (should not be necessary)
  + Restage **sfcuatblue** application (should not be necessary)
  + Set variables for **sfcuatblue** (should not be necessary)
  + Restage **sfcuatblue** application (should not be necessary)
  + Start **sfcuatgreen**
  + Smoke test <https://sfcuatblue.cloudapps.digital>
  + Switch LIVE Route to **sfcuatblue**
  + Smoke test <https://asc-wds.skillsforcare.org.uk>
  + Stop Offline
  + Remove <https://sfcuatblue.cloudapps.digital> URL

## Post-deployment

* **Once it has been agreed that the deployment is OK and a rollback will not be required, the previously live environment can be brought up to the new release. It is not necessary to deploy any database patches as the PreProd database will have already had any necessary patches applied (please refer to the deployment notes or perform all but the first PreProd Deployment Tasks using the sfcadmin script)**
  + Update **sfcuatblue** database binding to **sfcuatb02**
  + Restage **sfcuatblue** application
  + Set variables for **sfcuatblue**
  + Update manifest.bluegreen.yml for **sfcuatblue** application
  + Push application to **sfcuatblue**
  + Smoke test <https://sfcuatblue.cloudapps.digital>