**Update v92 to V111**

**To Do List:**

* Update to v98
* Install .net hosting bundle -
* Create core sites for media and web api
* Create cache db in sql -
* Update to 111
* Install Elasticsearch v7.X.X
* Confirm mongo db is repl set
* Run scripts
* Test

**Update to v98** Dept of Defense - done

* Extract webinstaller-214.zip
* Copy previous config and paste here
OR
We can create new config through installer - this would be useful if we have changes to file paths and/or connection strings
* Run installer
* Main purpose here is to get the last migrations prior to our change to .net core framework
* As such, there is really no need to test

**Install .net hosting bundle and other Reqs**

* Download .net hosting bundle 6.0.22: Dept of Defense - done
	+ <https://dotnet.microsoft.com/en-us/download/dotnet/6.0>
* Download .Net Desktop Runtime 6.0.22 Dept of Defense - done
* Download .net 4.8 Dept of Defense - done
	+ <https://dotnet.microsoft.com/en-us/download/dotnet-framework/net48>
* Install all

**Create core sites for media and web api** fDept of Defense - done

* In iis, create 2 new sites for web api core and media api core
* Stop old sites, re use those names and bindings
* Set app pool to no managed code

**Create Cache Db in SQL**

* Add CoreSessionState db
* Assign safe user to above

in SSMS run the following:

CREATE TABLE [dbo].[Sessions]

(

 [Id] NVARCHAR(449) NOT NULL PRIMARY KEY,

 [Value] VARBINARY(MAX) NOT NULL,

 [ExpiresAtTime] DATETIMEOFFSET NOT NULL,

 [SlidingExpirationInSeconds] BIGINT NULL,

 [AbsoluteExpiration] DATETIMEOFFSET NULL)

**Update to 107**

* Extract files webinstaller-319-9.107.002
* Need to use values in old config for this installer - no great way to do this.
* Might be best to just run through installer and re do any needed values
* Other option copy old config, then add missing key/value pairs - there are quite a few so not sure this is the best option.
* Replace migrations file with separate file in package
* Run the installer
* Check that new services are added and started, confirm all queues are correct

**Install Elasticsearch**

* Download elasticsearch here:
	+ <https://www.elastic.co/downloads/past-releases/elasticsearch-7-17-13>
* Create data folder, log folder
* Add above to config.yaml
* Install as service using bat file located in bin folder
* Add soundex analyzer:
	+ bin/elasticsearch-plugin install analysis-phonetic
* Start service

**Confirm mongo db is repl set**

In compass, robo mongo, or command line run rs.status()

stop your mongodb service

open cmd prompt and run the following:

C:\Program Files\MongoDB\Server\4.4\bin>mongod --replSet FdaReplicaSet --dbpath C:\Tracker\data\mongodb\data

In separate cmd prompt, run mongo shell :

mongo.exe

DO a check :

rs.status()

shoudl return message saying no replset config has been received

Initialize the replset:

rs.initiate()

close mongo shell

stop command line service

restart mongodb in Windows Services

in mongo.cnf add replication section:

replication:

 oplogSizeMB: 2000

 replSetName: <repl set name>

 enableMajorityReadConcern: false

**Run scripts**

* Old .Net Script runner:
	+ Migrate-cases-for-multi-case-officers
	+ Migrate-reports-for-multi-case-officers
	+ rename-duplicate-user-groups
* **.netCore Script Runner**
	+ Will need to create appsettings.json
	+ Migrate-saved-searches-for-multi-case-officers x
	+ Sync-user-person-records-active-status x
	+ Update-users-to-include-usergroups x
	+ sync-items-current-office-name-mongo x
	+ create-mongo-indices
	+ Update-disposition-auth-status-in-mongo-and-es x
	+ Update-transferred-from-to-person x
	+ update-saved-searches-transferred-from-to-person (select N to do the complete conversion) x
	+ Notes-to-es x
	+ Add-missing-es-cases-from-mongo-for-an-org x
	+ Add-missing-es-items-from-mongo-for-an-org x
	+ Add-missing-es-people-from-mongo-for-an-org x

**Set up Soundex In Elasticsearch**

* Close the index:
	+ POST: http://localhost:9200/people/\_close
* Add new Analyzer:
	+ PUT:<http://localhost:9200/people/_settings>
	+ BODY:

{

 "analysis": {

 "analyzer": {

 "tp\_soundex": {

 "tokenizer": "standard",

 "filter": [

 "lowercase",

 "tp\_soundex\_filter"

 ]

 }

 },

 "filter": {

 "tp\_soundex\_filter": {

 "type": "phonetic",

 "encoder": "double\_metaphone",

 "replace": false

 }

 }

 }

}

* Open Index:
	+ POST:<http://localhost:9200/people/_open>
* Check if fields were added due to add missing people script above
* Add if needed

{

 "properties": {

 "NameSoundexV2": {

 "type": "text",

 "analyzer": "tp\_soundex"

 },

 "FirstNameSoundexV2": {

 "type": "text",

 "analyzer": "tp\_soundex"

 },

 "MiddleNameSoundexV2": {

 "type": "text",

 "analyzer": "tp\_soundex"

 },

 "LastNameSoundexV2": {

 "type": "text",

 "analyzer": "tp\_soundex"

 },

 "AliasSoundexV2": {

 "type": "text",

 "analyzer": "tp\_soundex"

 },

 "BusinessNameSoundexV2": {

 "type": "text",

 "analyzer": "tp\_soundex"

 }

 }

}

* Run add-soundex-to-es if needed

For 107 installer, following key/values should be added:

<add key="RabbitMqItemAddQueue" value="DevTracker-ItemAdd-Local" />

<add key="RabbitMqItemAddFailExchange" value="DevTracker-ItemAdd-FAILS-Local" />

<add key="RabbitMqItemUpdateQueue" value="DevTracker-ItemUpdate-Local" />

<add key="RabbitMqItemUpdateFailExchange" value="DevTracker-ItemUpdate-FAILS-Local" />

<add key="RabbitMqCaseAddQueue" value="DevTracker-CaseAdd-Local" />

<add key="RabbitMqCaseAddFailExchange" value="DevTracker-CaseAdd-FAILS-Local" />

<add key="RabbitMqCaseUpdateQueue" value="DevTracker-CaseUpdate-Local" />

<add key="RabbitMqCaseUpdateFailExchange" value="DevTracker-CaseUpdate-FAILS-Local" />

<add key="RabbitMqPersonUpdateQueue" value="DevTracker-PersonUpdate-Local" />

 <add key="RabbitMqPersonUpdateFailExchange" value="DevTracker-PersonUpdate-FAILS-Local" />

 <add key="RabbitMqPersonAddQueue" value="DevTracker-PersonAdd-Local" />

<add key="RabbitMqPersonAddFailExchange" value="DevTracker-PersonAdd-FAILS-Local" />

<add key="ObjectToEsServiceName" value="Tracker-Object-To-ES" />

<add key="ObjectToEsServiceFolder" value="C:\Program Files\Tracker-ObjectToES" />

<add key="NewUserMassEmailServiceName" value="Tracker-NewUserMassEmail"/>

<add key="NewUserMassEmailServiceFolder" value=""/>

<add key="RabbitMqNewUserMassEmailQueue" value="Tracker-NewUserMassEmail-Local"/>

<add key="SqlCacheConnectionString" value="" />

 <add key="NotesIndex" value="notes" />

 <add key="RabbitMqCheckinByQueryQueue" value="Tracker-CheckinByQuery-Local"/>

 <add key="RabbitMqCheckinByQueryFailExchange" value="Tracker-CheckinByQuery-FAILS-Local"/>

 <add key="RabbitMqCheckoutByQueryQueue" value="Tracker-CheckoutByQuery-Local"/>

 <add key="RabbitMqCheckoutByQueryFailExchange" value="Tracker-CheckoutByQuery-FAILS-Local"/>

 <add key="RabbitMqMoveByQueryQueue" value="Tracker-MoveByQuery-Local"/>

 <add key="RabbitMqMoveByQueryFailExchange" value="Tracker-MoveByQuery-FAILS-Local"/>

 <add key="RabbitMqDisposalByQueryQueue" value="Tracker-DisposalByQuery-Local"/>

 <add key="RabbitMqDisposalByQueryFailExchange" value="Tracker-DisposalByQuery-FAILS-Local"/>

 <add key="RabbitMqTransferByQueryQueue" value="Tracker-TransferByQuery-Local"/>

 <add key="RabbitMqTransferByQueryFailExchange" value="Tracker-TransferByQuery-FAILS-Local"/>

<add key="TransactionByQueryServiceName" value="Tracker-TransactionByQuery"/>

<add key="TransactionByQueryServiceFolder" value="C:\Program Files\Tracker-TransactionByQuery"/>

<add key="RabbitMqNotesAddQueue" value="Tracker-NotesAdd-Local" />

<add key="RabbitMqNotesAddFailExchange" value="Tracker-NotesAdd-FAILS-Local" />

<add key="RabbitMqNotesUpdateQueue" value="Tracker-NotesUpdate-Local" />

<add key="RabbitMqNotesUpdateFailExchange" value="Tracker-NotesUpdate-FAILS-Local" />