**Configuring local dev environment**

Install latest Visual Studio

Download new branch from TFS ( <https://kofile.visualstudio.com> )

Install VirtualBox and connect development server from template Server2012R2.vdi

* Virtual machine consists of Windows Server 2012 R2, Microsoft SQL Server 2008, IIS and preinstalled developer database VANGUARD\_TX\_Develop, successfully configured IIS sites: crs.local, cso.local, cs.local, ps.local, etc... Enabled remote debugging.
* For proper work need change in local host file on dev:

#### KFL-SCAN

192.168.56.50 CRS crs.local

192.168.56.50 CSO cso.local

192.168.56.50 CS cs.local

192.168.56.50 PS ps.local

192.168.56.50 KIOSK kiosk.local

Where 192.168.56.50 – IP of virtual machine

**For CRS:**

Open $CRS\Develop\src\Kofile.Vanguard.CRS.sln solution and publish database project (Kofile.Vanguard.Database) to get the latest version of the database structure and data.

For that you must use next connect string:

<connectionStrings>

<add name=**"VanguardConnection"**

connectionString=**"Data Source=crs.local;Initial Catalog=VANGUARD\_TX\_QA;user ID=Kofile;password=K0f1|3;"**

providerName=**"System.Data.SqlClient"** />

</connectionStrings>

Make sure your user account is present in that db, if no - run script to create it.

To proper add new user and new workstation recommend to use

<https://kb.epam.com/display/KFLSCAN/Useful+DB+scripts?preview=/293052883/293309413/Insert%20Users%20to%20TENANT_USER.sql>

for troubleshooting authorization problems recommend to use firebug plugin. Typical SAML:

<AttributeStatement>

<Attribute+Name=**"WorkStationName"**>

<AttributeValue>**epbyminw0825.minsk.epam.com**</AttributeValue>

</Attribute>

<Attribute+Name=**"WorkStationIP"**>

<AttributeValue>**192.168.56.1**</AttributeValue>

</Attribute>

<Attribute+Name=**"AgentName"**>

<AttributeValue>**WIN-R2A5NBV085K\Kofile**</AttributeValue>

</Attribute>

<Attribute+Name=**"ServerName"**>

<AttributeValue>**WIN-R2A5NBV085K**</AttributeValue>

</Attribute>

<Attribute+Name=**"ServerIP"**>

<AttributeValue>**192.168.56.50**</AttributeValue>

</Attribute>

<Attribute+Name=**"TenantCode"**>

<AttributeValue>**48231**</AttributeValue>

</Attribute>

</AttributeStatement>

Make change in appropriate CSO xml files:

Use next field in publish xml:

<MSDeployServiceURL>**cso.local**</MSDeployServiceURL>

<DeployIisAppPath>**cso.local**</DeployIisAppPath>

<UserName>**Kofile**</UserName>

Then publish Kofile.Vanguard.CSO project to cso.local

Make change in appropriate CRS xml files:

Use next field in publish xml:

<MSDeployServiceURL>**crs.local**</MSDeployServiceURL>

<DeployIisAppPath>**crs.local**</DeployIisAppPath>

<UserName>**Kofile**</UserName>

Add proper connection string to ConnectionStrings.config:

<connectionStrings>

<add name=**"VanguardConnection"**

connectionString=**"Data Source=ps.local;Initial Catalog=VANGUARD\_TX\_QA;user ID=Kofile;password=K0f1|3;"**

providerName=**"System.Data.SqlClient"** />

</connectionStrings>

Set local CSO address in TenantSecurityConfig.xml configuration file, for example for tenant 48215 it will be $CRS\Develop\src\Kofile.Vanguard.CRS\App\_Data\Tenants\48215\TenantSecurityConfig.xml, usually it is needed to comment/uncomment existing lines.

Update TenantIntegrationConfig.xml with appropriate directories paths.

And then publish Kofile.Vanguard.CRS project to crs.local

At that time we have successfully working CRS project and can connect to it by <http://crs.local>

**For PS:**

Open $Kofile Systems - Vanguard\Vanguard-Develop\Kofile.Vanguard.sln solution and publish Kofile.Vanguard.Web project to ps.local

Add proper connection string to ConnectionStrings.config:

<connectionStrings>

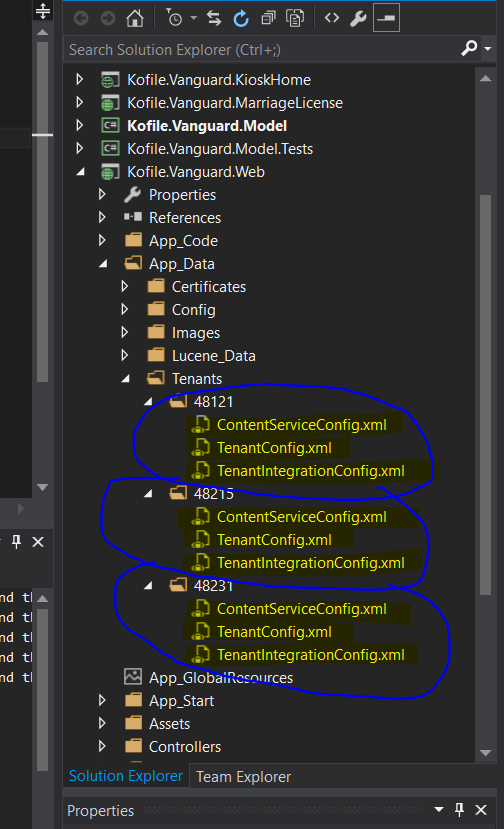
<add name=**"VanguardConnection"**

connectionString=**"Data Source=ps.local;Initial Catalog=VANGUARD\_TX\_QA;user ID=Kofile;password=K0f1|3;"**

providerName=**"System.Data.SqlClient"** />

</connectionStrings>

Tennant-specific configuration:



For proper path configuration add to project Kofile.Vanguard.Web the copy of any .xml file from directory Kofile Systems - Vanguard\Vanguard-Develop\src\Kofile.Vanguard.Web\SetParameters and change the appropriate parameters and must looks like:

<setParameter name=**"LuceneIndexPath"** value=**"C:\LUCENECONTENT\"** />

<setParameter name=**"CRSWebApiUri"** value=**"http://crs.local/{0}/{1}/api/{2}/{3}"** />

<setParameter name=**"PrintingWebApiUri"** value=**"http://crs.local /{0}/{1}/api/Printing/{2}"** />

<setParameter name=**"OrderSummaryUri"** value=**"http://crs.local /{0}/Order/OrderSummary?orderNumber={1}"** />

<setParameter name=**"OrderSearchUri"** value=**"http://crs.local /{0}/Search/GoToOrderSearch?orderNumber={1}"** />

<setParameter name=**"DefaultCacheTime"** value=**"5"** />

<setParameter name=**"48215 imageRootPath"** value=**"C:\DMCONTENT\48215\"** />

<setParameter name=**"48215 IPRange IpAddress1"** value=**"188.163.232.130"** />

<setParameter name=**"48215 IPRange Url1"** value=**"http://10.6.129.177:81/48215/"** />

<setParameter name=**"48215 IPRange IpAddress2"** value=**"97.77.105.2"** />

<setParameter name=**"48215 IPRange Url2"** value=**"http://CH-1-CC-K39/48215/"** />

<setParameter name=**"48215 ExchangeFolder"** value=**"F:\WFCONTENT\SearchExchange\48215"** />

<setParameter name=**"48215 KioskHomeUrl"** value=**"http://kiosk.local /48215/"** />

<setParameter name=**"48215 PrismPayUrl"** value=**"https://trans.local /cgi-bin/process.cgi"** />

<setParameter name=**"48215 PrismPayAcceptUrl"** value=**"http://ps.local /48215/Payment/PaymentCallback"** />

<setParameter name=**"48215 PrismPayDeclineUrl"** value=**"http://ps.local/48215/Payment/PaymentCallback"** />

<setParameter name=**"48215 PacePaymentUrl"** value=**"https://trans.pacepayment.com/cgi-bin/process.cgi"** />

<setParameter name=**"48215 PacePaymentAcceptUrl"** value=**"http://search.kofile.com/48215/Payment/PaymentCallback"** />

<setParameter name=**"48215 PacePaymentDeclineUrl"** value=**"http://search.kofile.com/48215/Payment/PaymentCallback"** />

<setParameter name=**"48215 PacePayment AllowIpAddress"** value=**"216.57.217.179"** />

At that step we have successfully working PS project and can connect to it by <http://ps.local>

**For Print Service:**

Install 'Primo PDF'(virtual printer) on machine, where you want to run Print Service.

Get folder 'PrintService' from TFS server. Path to this folder is '$/CRS/Automation/KofileTF/Framework/Extention/PrintService'.

Find file 'PrinterConfig.xml' and open.

Edit all red field

<PrinterService>

<PrinterServiceId>**4**</PrinterServiceId>

<PrintServiceName>**crs.local.Printer**</PrintServiceName>

<GenericPrinters>

<Printer>

<PrinterId>**17**</PrinterId>

<PrinterNameOrIP>**PrimoPDF**</PrinterNameOrIP>

<DeviceHostName>**CRS**</DeviceHostName>

<DeviceHostAddress>**20.0.1.101**</DeviceHostAddress>

</Printer>

</GenericPrinters>

<LabelPrinters />

<AddressLabelPrinters />

<ReceiptPrinters />

</PrinterService>

Find table 'VG4815.Printer'. And remember last record.

Next, Find file 'PrintSvc.Config' and open.

Edit all red field

<ServiceConfiguration>

<Server>

<SamlCertificatePath>**CSO.pfx**</SamlCertificatePath>

<SamlPassword>**vanguard**</SamlPassword>

<TenantCode>**48365**</TenantCode>

<BaseAddress>**http://crs.local**</BaseAddress>

</Server>

<Client>

<WorkStationName>**crs.local**</WorkStationName>

<WorkStationIP>**192.168.56.50**</WorkStationIP>

<AgentName>**PrintService**</AgentName>

</Client>

</ServiceConfiguration>

Run Kofile.Vanguard.CRS.PrintService.exe. After that print service should run in process.

Verify that printer was added into table ' VG4815.Printer'.

Remember PRINTER\_ID of this printer. Must much with <PrinterId> section PrinterConfig.xml

Find WORKSTATION\_ID in table 'VG4815.WORKSTATION' by WORKSTATION\_NAME(name of computer, where you will use print service).

Add this WORKSTATION\_ID and PRINTER\_ID into table 'VG4815.WORKSTATION\_DEVICE and set 'true' value for other two columns.

Try to print document in public search in clerk mode. This document should appear in folder '../PrintService/PDFPrints'.

**For Scan Service:**

1. Setup Scan Service

Download the last version of Scan Service from \\ecsc0010077c.epam.com\d$\Install\ScanService

Unpack archive and rename the folder for more comfortable usage

Open ScannerConfig.xml file and remove all scanners from this config (all rows from <Scanner xmlns......> to last </Scanner>)

Save changes and close this file

Open ScannerServiceConfig.xml and change <BaseAddress> (address for needed environment including tenant code)

Save changes and close the file

Run Scan Service - Kofile.Vanguard.ScanService.exe

Open Scan Service from taskbar

Click on Configure server in the Scan Service window

Remove all info from SamlCertificatePath field, leave only CSO.pfx

Click on Save button

1. Register new scanner

Click on Register Scanner in the Scan Service window

Choose needed scanner from the Scanner Name dropdown

Click on Register button -> Scanner appears in the Registered scanners block

Assign registered scanner to needed workstation

Scan Service window contain ID of the registered scanner - remember it

Go to database of appropriate environment (be careful with tenants - each Scan Service for each tenant)

Add new connection to the table [SCANNER\_WORKSTATION]

You can use following query:

INSERT INTO [<Fill in VG and needed tenant's code>].[SCANNER\_WORKSTATION]

([WORKSTATION\_ID] ,[SCANNER\_ID], [IS\_DEFAULT])

VALUES (<WORKSTATION\_ID>, <SCANNER\_ID>, 1)

<WORKSTATION\_ID> - is your workstation's ID

<SCANNER\_ID> - is ID of the previously registered scanner

Examples of configuration files (red fields need to change):

<ScannerService>

<TenantId>**48365**</TenantId>

<Scanners>

<Scanner xmlns:xsi=**"http://www.w3.org/2001/XMLSchema-instance"** xmlns:xsd=**"http://www.w3.org/2001/XMLSchema"**>

<IsNotifying>**true**</IsNotifying>

<ScannerId>**14**</ScannerId>

<ScannerName>**Predefined image for tests only**</ScannerName>

</Scanner>

</Scanners>

</ScannerService>

<ServiceConfiguration>

<Client>

<AgentName>**ScanService**</AgentName>

</Client>

<Server>

<BaseAddress>**http://crs.local/48365/capturemodule/api**</BaseAddress>

<SamlCertificatePath>**C:\tmp\Debug ScanService\_5.2.2016\CSO.pfx**</SamlCertificatePath>

<SamlPassword>**vanguard**</SamlPassword>

<SamlTokenValidationTimeOut>**25**</SamlTokenValidationTimeOut>

</Server>

</ServiceConfiguration>