

# **Project Analysis Report**

## **apiguardwrapper**

Comprehensive analysis and documentation of Mule project configuration, flows, and resources

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# 1. Project Information

## 1.1 Project Details

Property	Value
Project Name	apiguardwrapper
Version	1.0.0
Project Path	C:\raks\apiguard\apiguardwrapper

## 1.2 POM Details

Path: pom.xml

### 1.2.1 Basic Information

Property	Value
Model Version	4.0.0
Group ID	com.raks.apiguard
Artifact ID	apiguardwrapper
Version	1.0.0
Packaging	mule-application
Name	apiguardwrapper

### 1.2.2 Properties

Key	Value
mule.maven.plugin.version	4.5.3
maven.compiler.target	17
maven.compiler.source	17
project.build.sourceEncoding	UTF-8
app.runtime	4.9.1
project.reporting.outputEncoding	UTF-8

### 1.2.3 Plugins

Group ID	Artifact ID	Version
org.apache.maven.plugins	maven-clean-plugin	3.0.0
org.mule.tools.maven	mule-maven-plugin	\${mule.maven.plugin.version}

## 1.2.4 Dependencies

Group ID	Artifact ID	Version
org.mule.connectors	mule-http-connector	1.9.2
org.mule.connectors	mule-sockets-connector	1.2.2
org.mule.connectors	mule-file-connector	1.5.2
org.mule.connectors	mule-email-connector	1.7.3
org.mule.connectors	mule-objectstore-connector	1.2.4
org.mule.module	mule-java-module	2.0.0
org.mule.modules	mule-compression-module	2.2.3
com.mulesoft.modules	mule-secure-configuration-property-module	1.2.6
org.jsoup	jsoup	1.17.2
com.raks	raksanalyzer	1.0.0
com.raks	muleguard	1.0.0

## 1.3 Mule-artifact.json

Path: mule-artifact.json

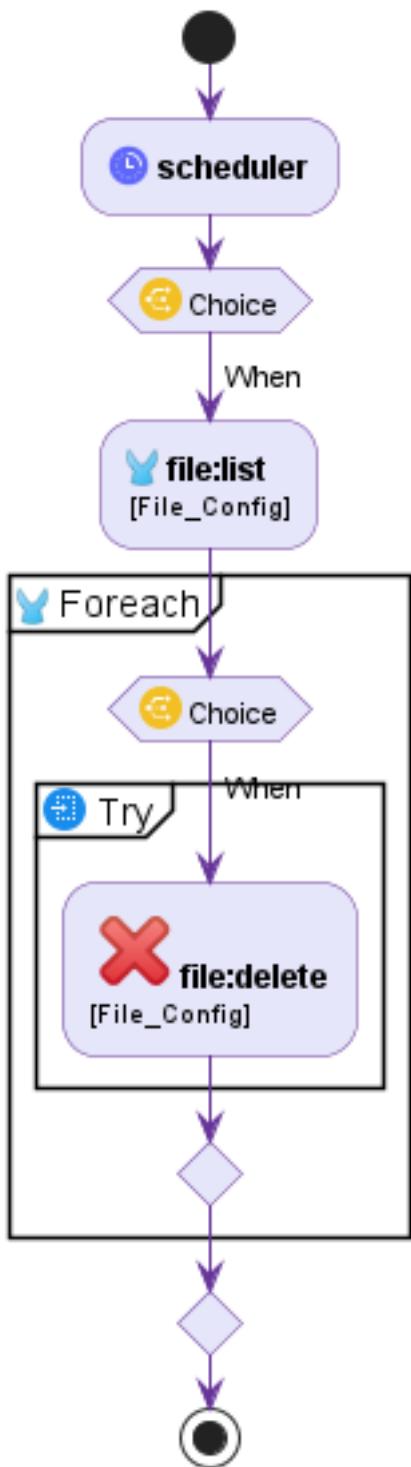
```
{
    "minMuleVersion": "4.9.1",
    "javaSpecificationVersions": [
        "17"
    ],
    "classLoaderModelLoaderDescriptor": {
        "id": "mule",
        "attributes": {
            "exportedPackages": [
                "javax.activation",
                "com.raks.muleguard.wrapper"
            ]
        }
    }
}
```

## 2. Flow Diagrams

### 2.1 Mule Project Flow Integration

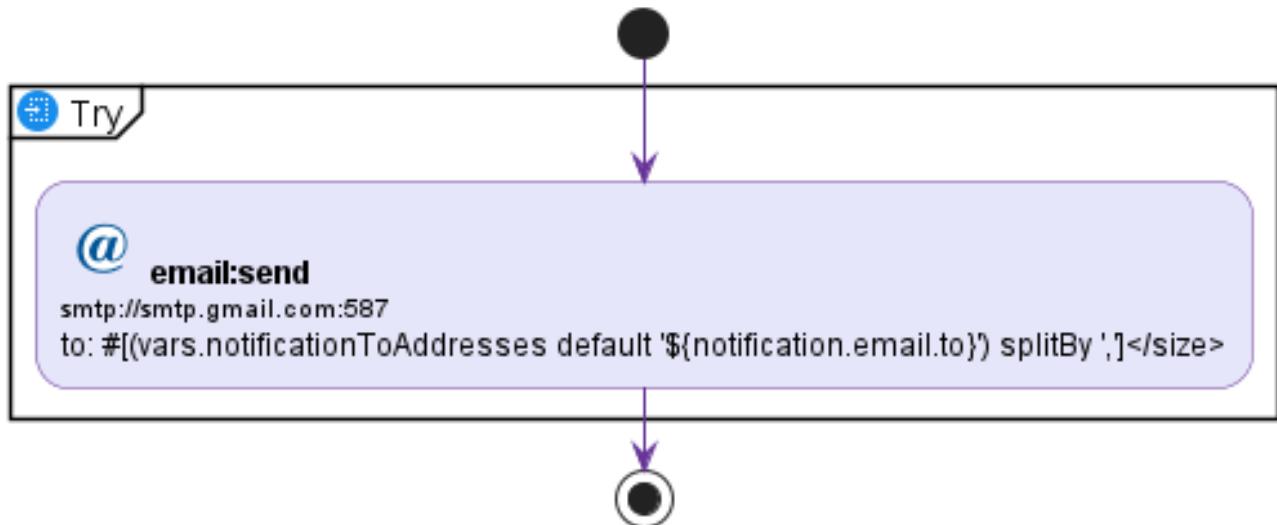
#### 2.1.1 cleanup-workspace-flow

Path: src\main\mule\muleguard-wrapper.xml



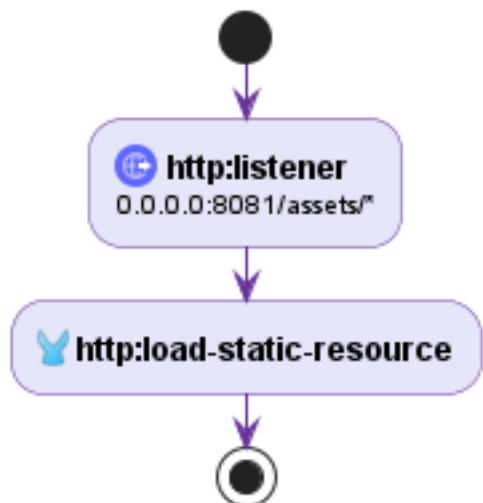
## 2.1.2 common-send-registration-notification-flow

Path: src\main\mule\apiguard-common.xml



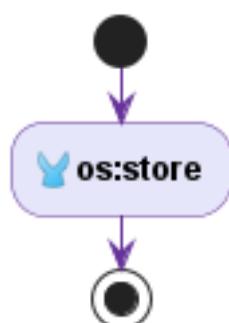
## 2.1.3 common-static-resource-flow

Path: src\main\mule\apiguard-common.xml



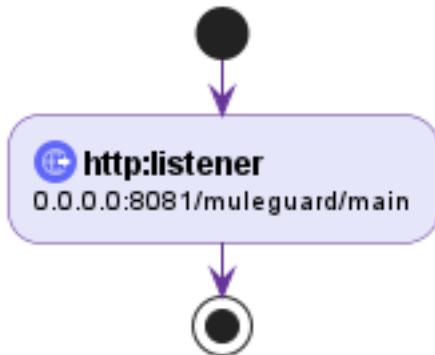
## 2.1.4 create-anonymous-session-subflow

Path: src\main\mule\muleguard-wrapper.xml



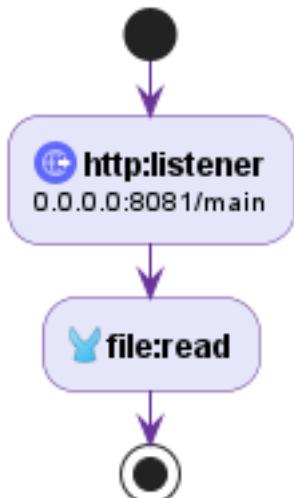
## 2.1.5 main-landing-page-flow

Path: `src\main\mule\muleguard-wrapper.xml`



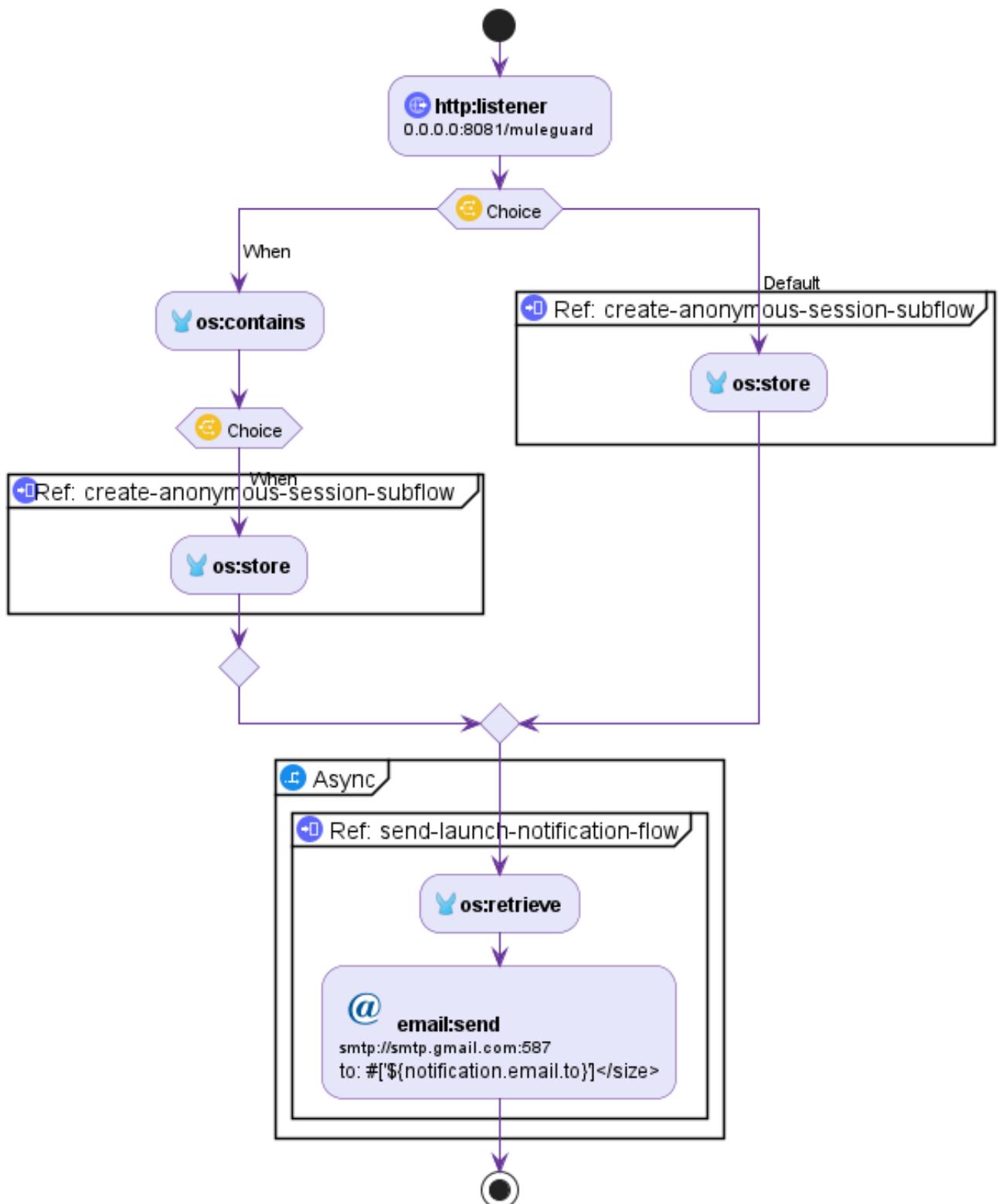
## 2.1.6 main-page-flow

Path: `src\main\mule\apiguard-portal.xml`



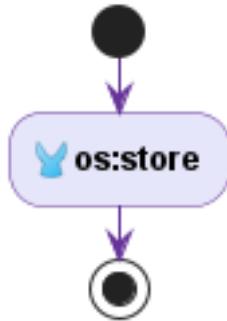
## 2.1.7 muleguard-root-flow

Path: `src\main\mule\muleguard-wrapper.xml`



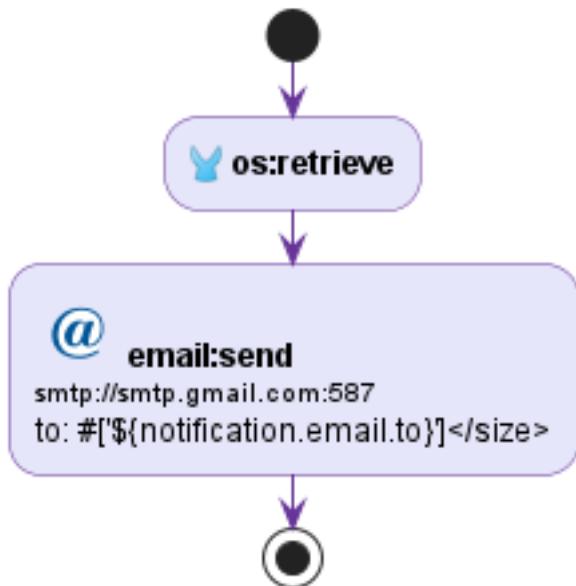
## 2.1.8 raks-create-anonymous-session-subflow

Path: src\main\mule\raksanalyzer-wrapper.xml



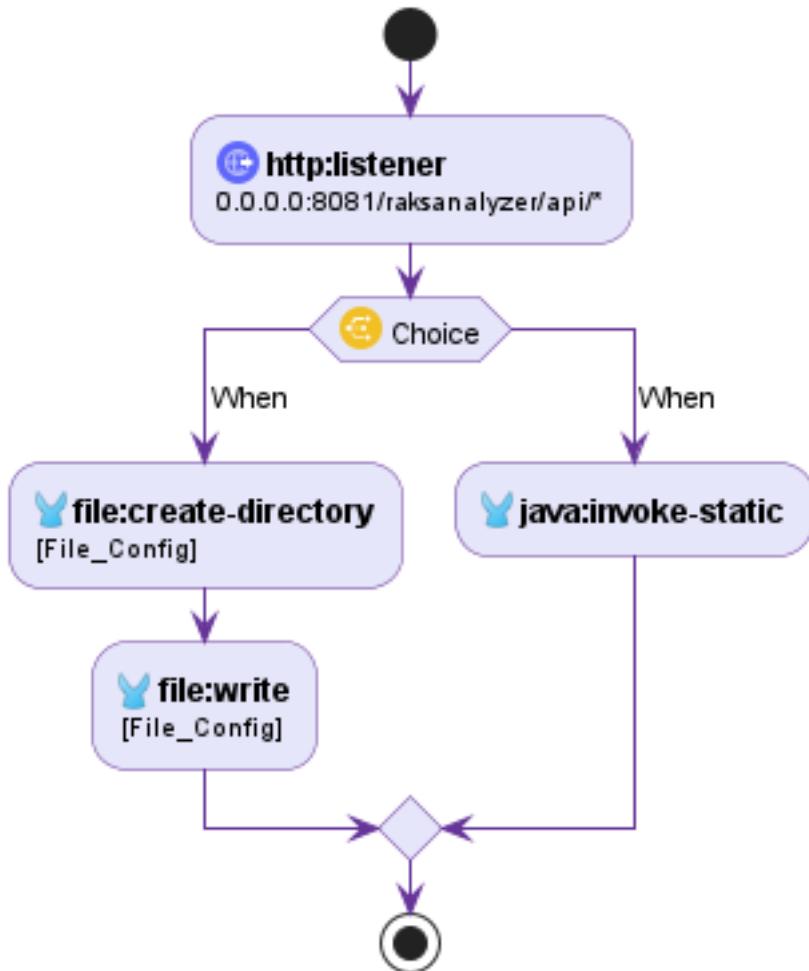
## 2.1.9 raks-send-launch-notification-flow

Path: src\main\mule\raksanalyzer-wrapper.xml



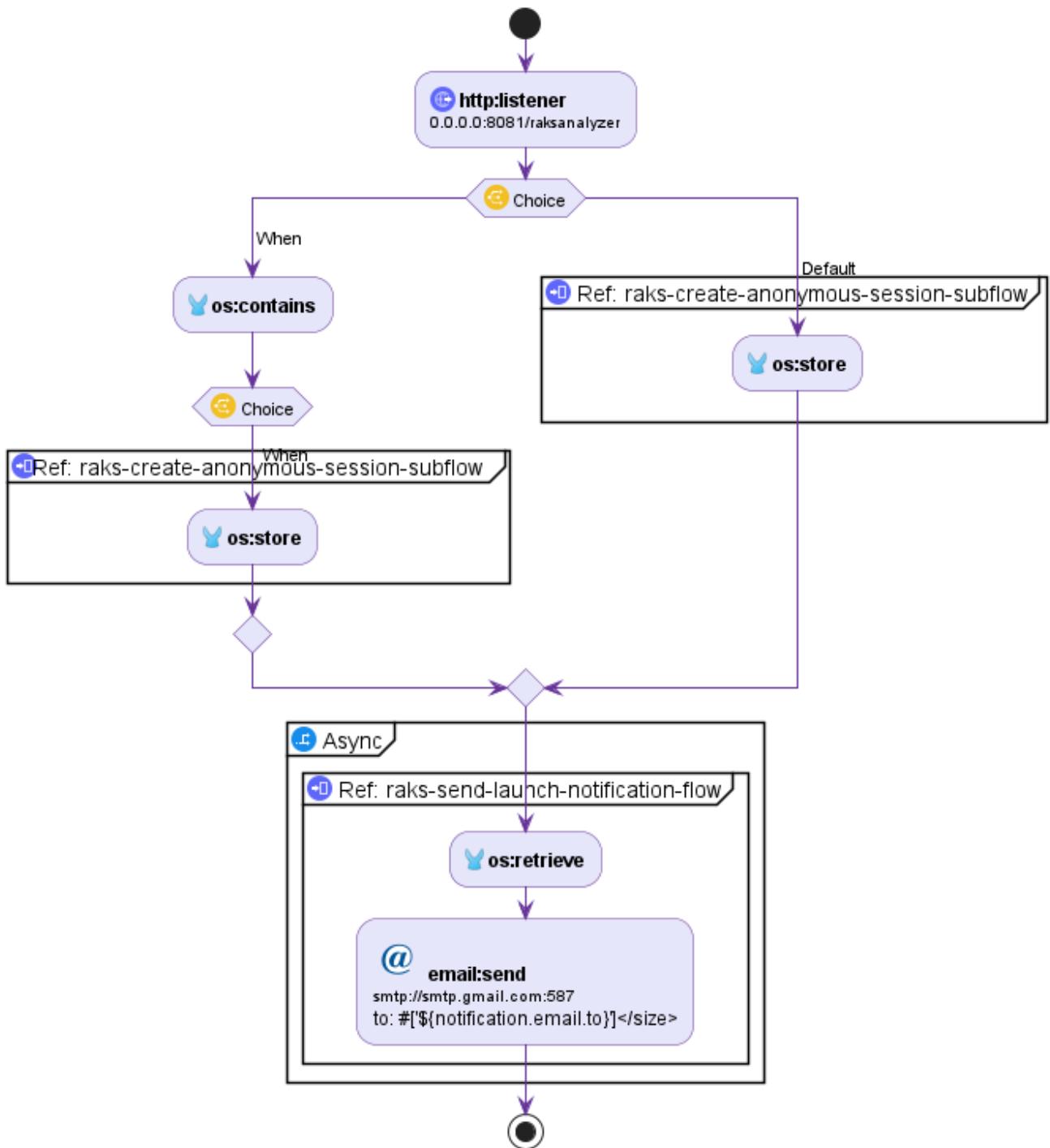
## 2.1.10 raksanalyzer-api-flow

Path: src\main\mule\raksanalyzer-wrapper.xml



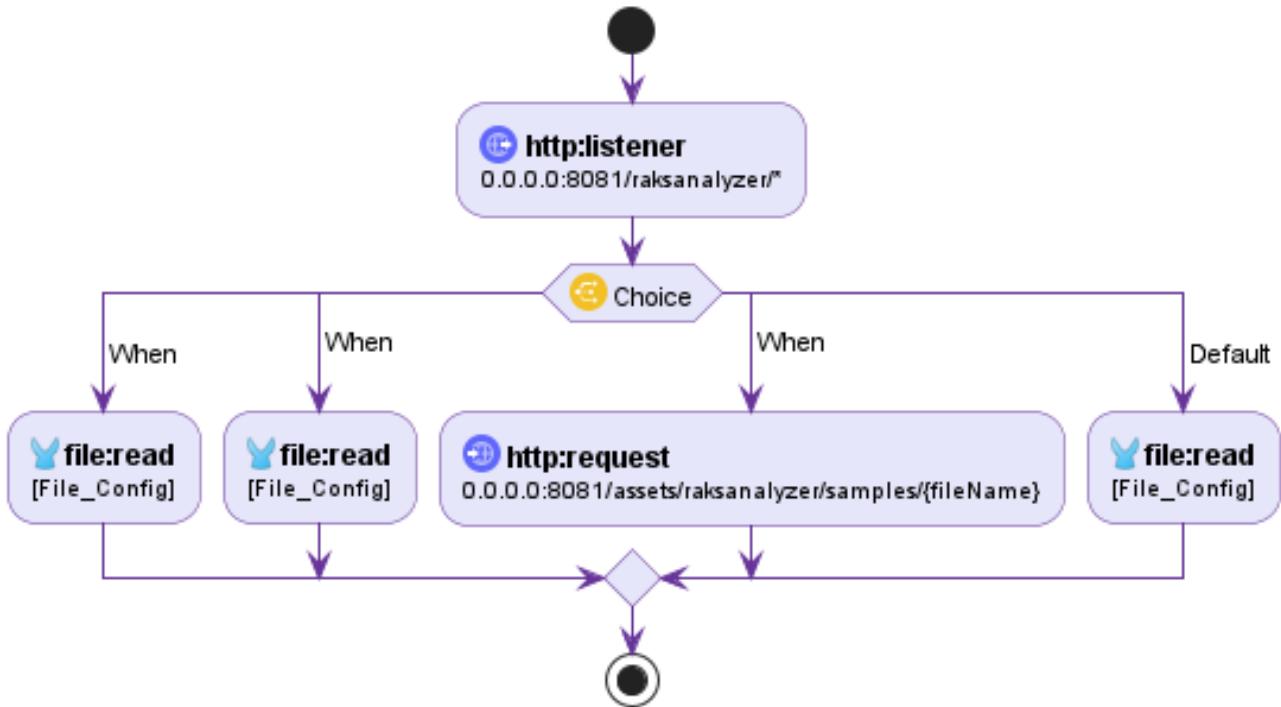
### 2.1.11 raksanalyzer-root-flow

Path: src\main\mule\raksanalyzer-wrapper.xml



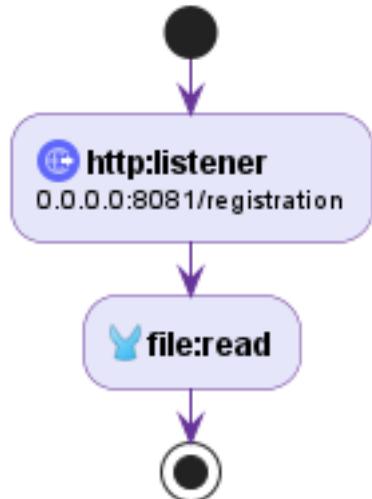
### 2.1.12 raksanalyzer-ui-flow

*Path: src\main\mule\raksanalyzer-wrapper.xml*



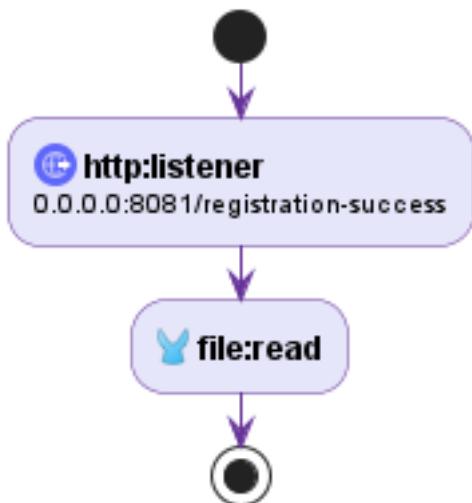
### 2.1.13 registration-page-flow

*Path: src\main\mule\apiguard-portal.xml*



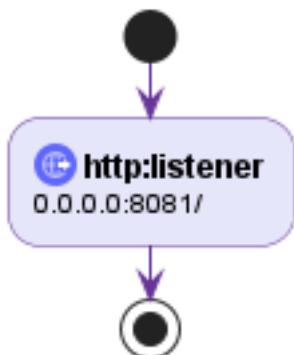
### 2.1.14 registration-success-flow

*Path: src\main\mule\apiguard-portal.xml*



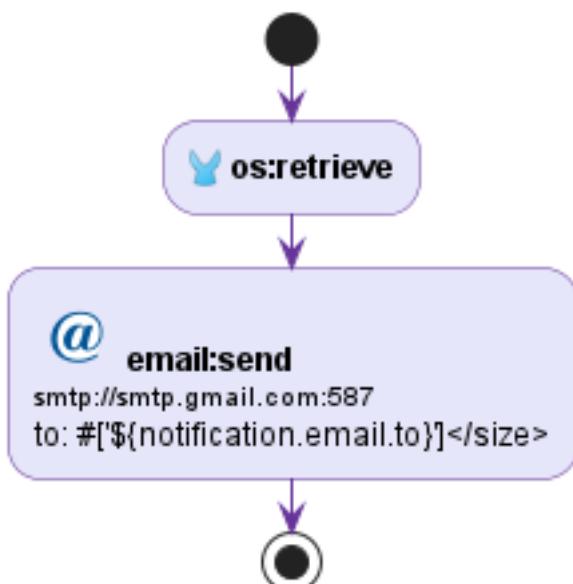
### 2.1.15 root-redirect-flow

Path: `src\main\mule\apiguard-portal.xml`



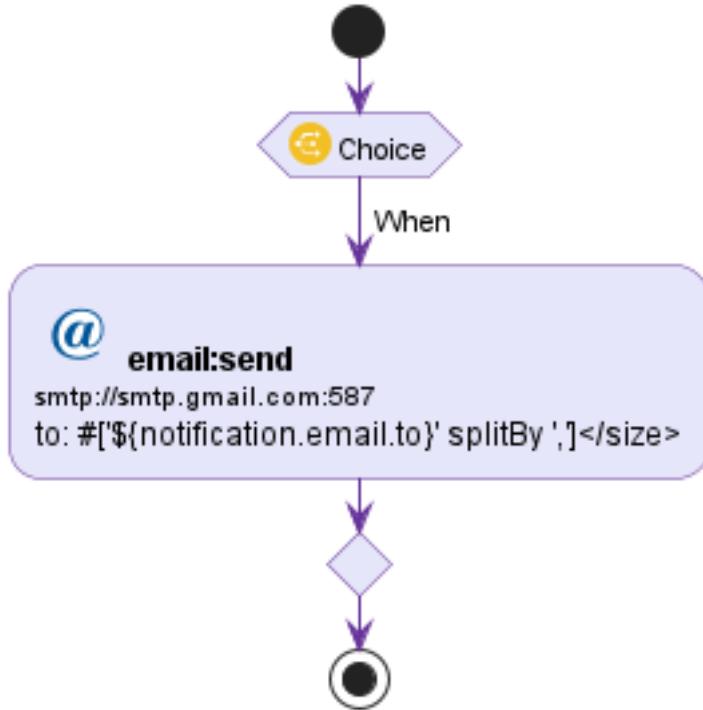
### 2.1.16 send-launch-notification-flow

Path: `src\main\mule\muleguard-wrapper.xml`



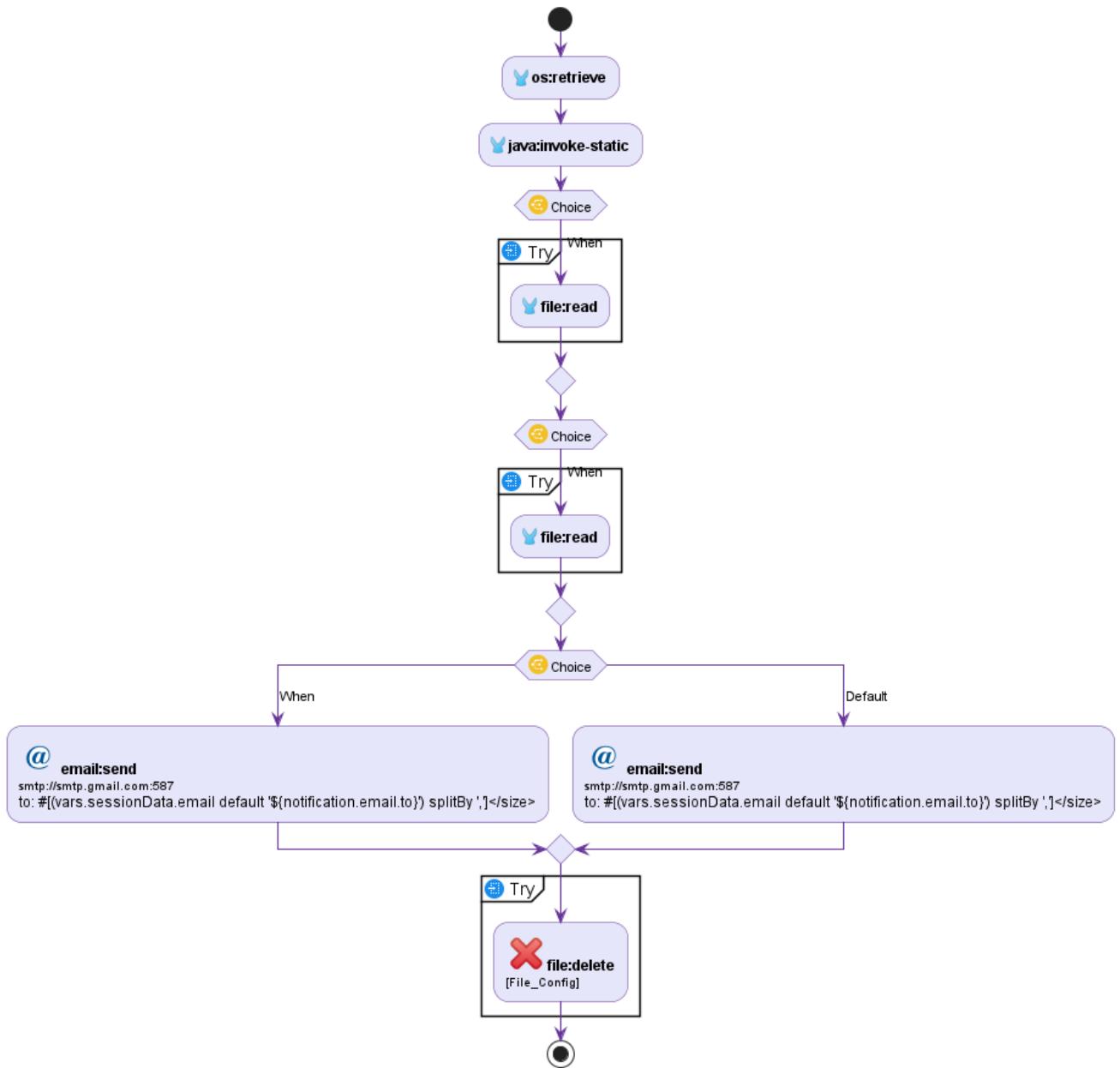
### 2.1.17 send-registration-notification-flow

Path: src\main\mule\muleguard-wrapper.xml



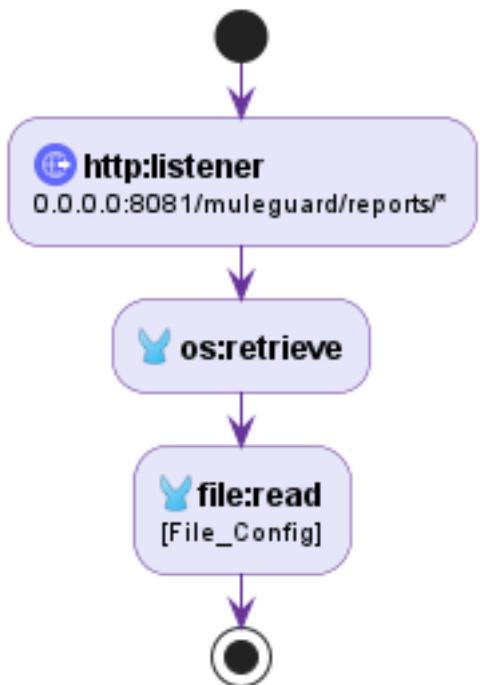
### 2.1.18 send-usage-notification-flow

Path: src\main\mule\muleguard-wrapper.xml



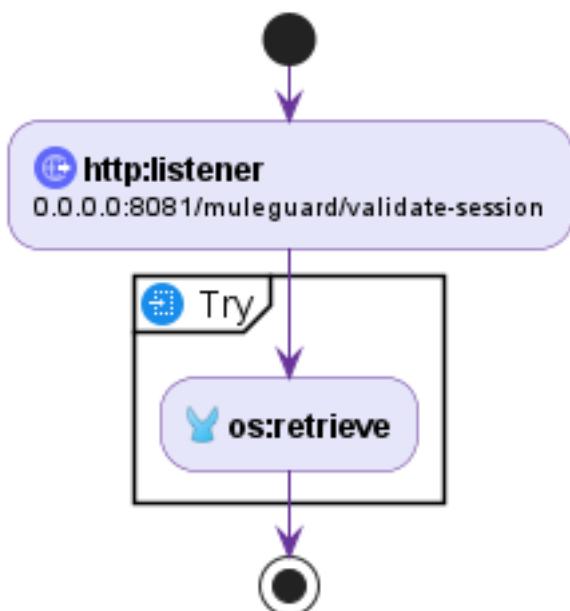
## 2.1.19 serve-report-flow

Path: `src\main\mule\muleguard-wrapper.xml`



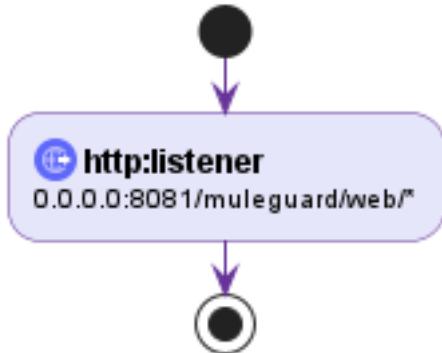
### 2.1.20 session-validation-flow

Path: `src\main\mule\muleguard-wrapper.xml`



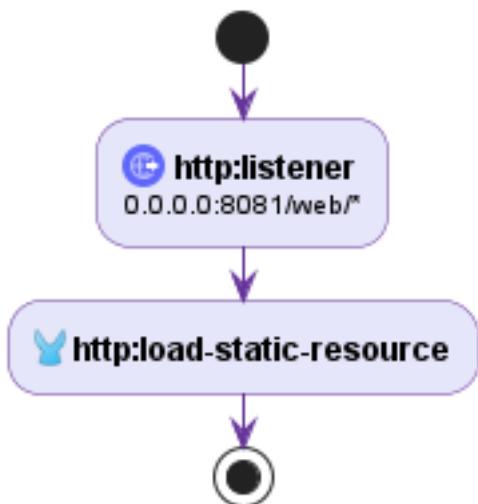
### 2.1.21 static-resource-flow

Path: `src\main\mule\muleguard-wrapper.xml`



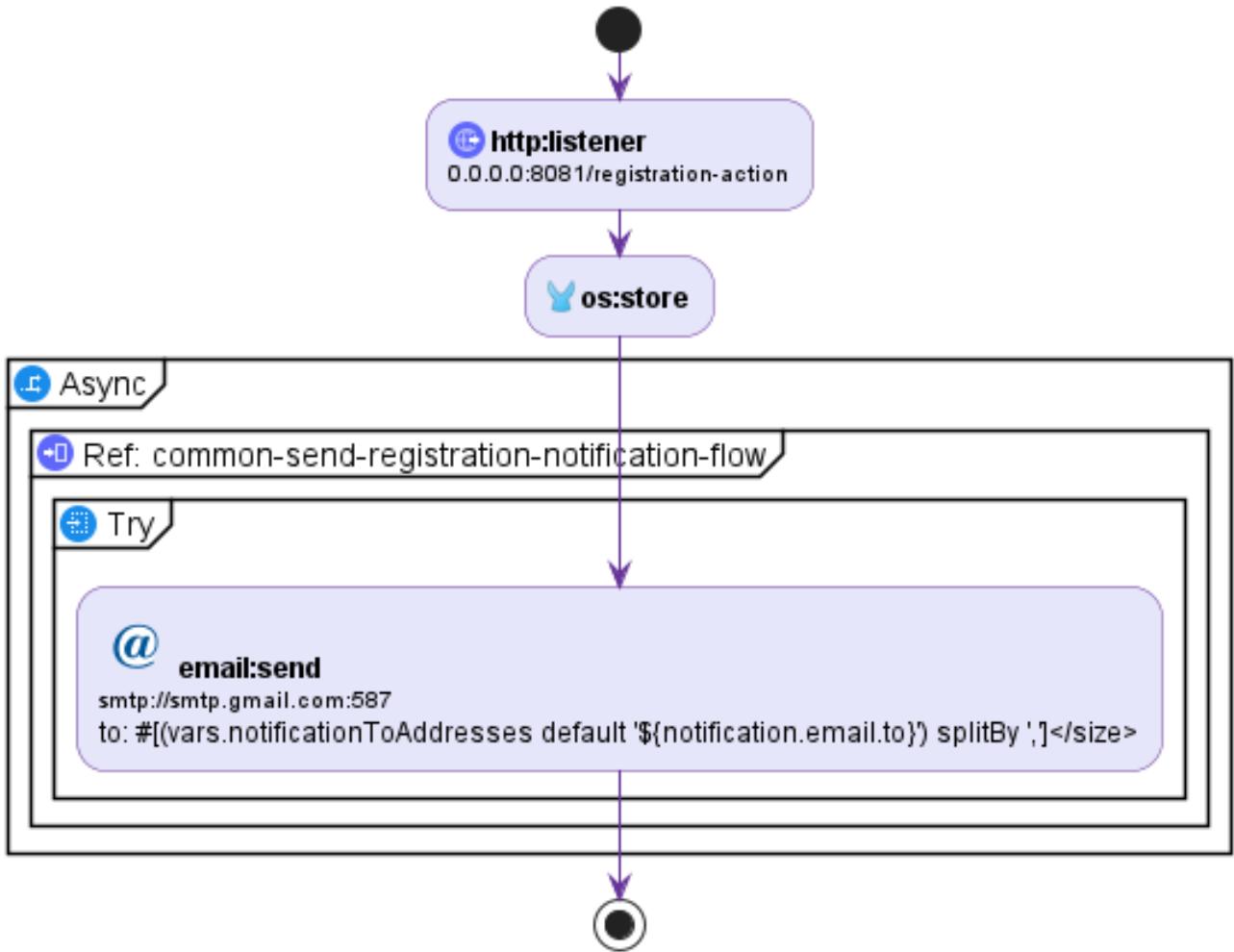
### 2.1.22 static-resources-flow

Path: `src\main\mule\apiguard-portal.xml`



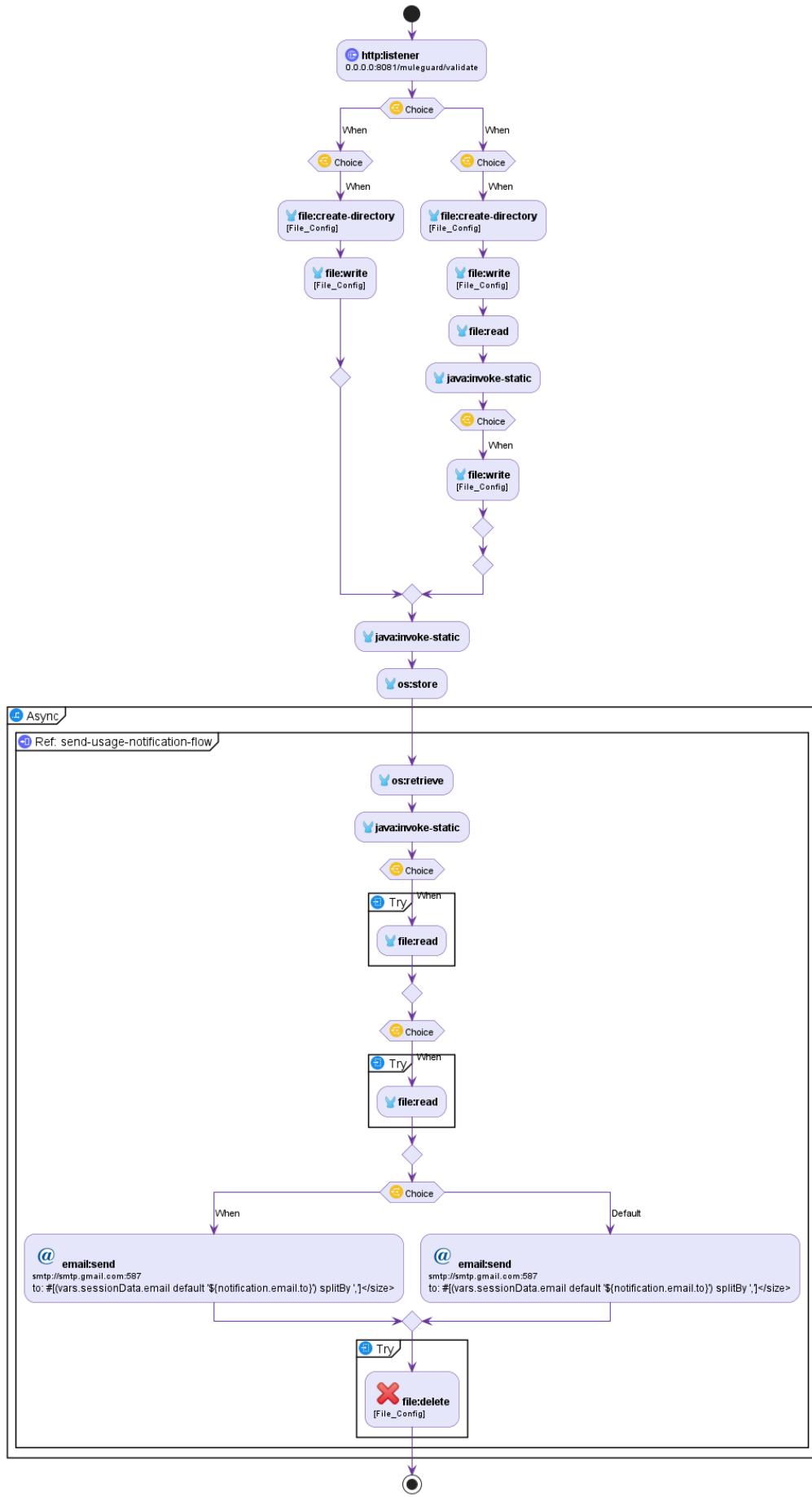
### 2.1.23 user-registration-flow

Path: `src\main\mule\apiguard-portal.xml`



#### 2.1.24 validation-trigger-flow

Path: `src\main\mule\muleguard-wrapper.xml`

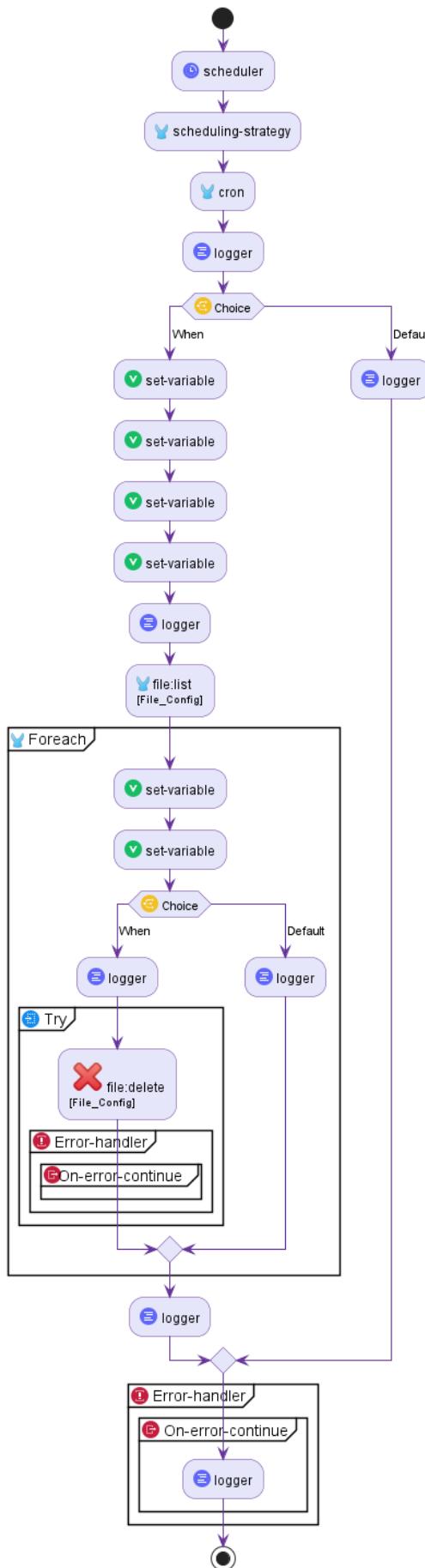


(Diagram scaled to fit page)

## 2.2 Mule Project Flow Diagram

### 2.2.1 cleanup-workspace-flow

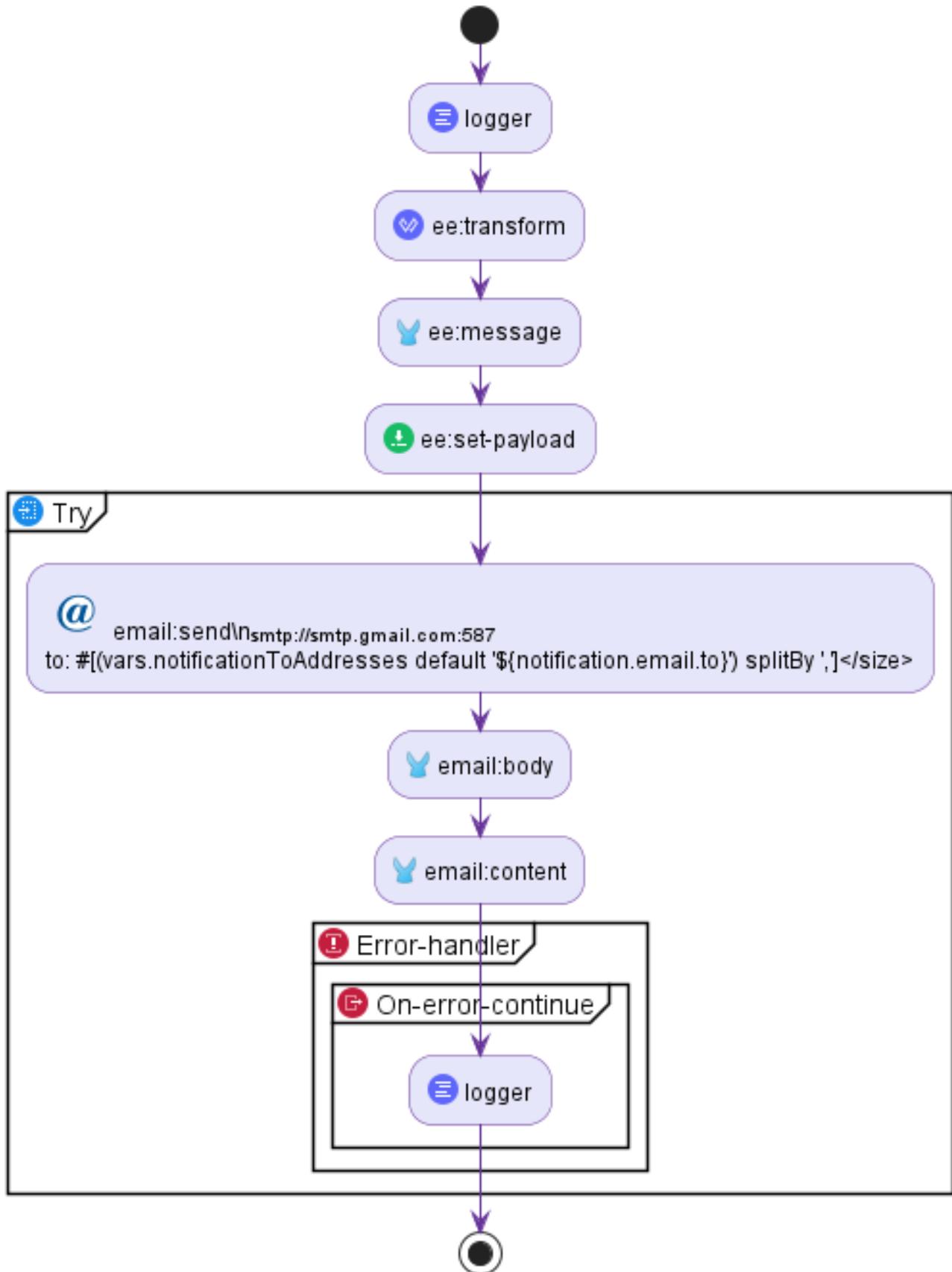
*Path: src\main\mule\muleguard-wrapper.xml*



(Diagram scaled to fit page)

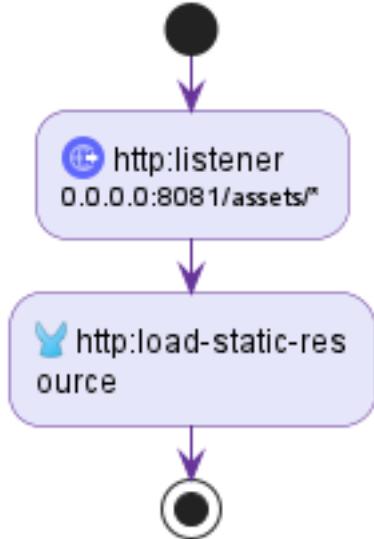
## 2.2.2 common-send-registration-notification-flow

Path: src\main\mule\apiguard-common.xml



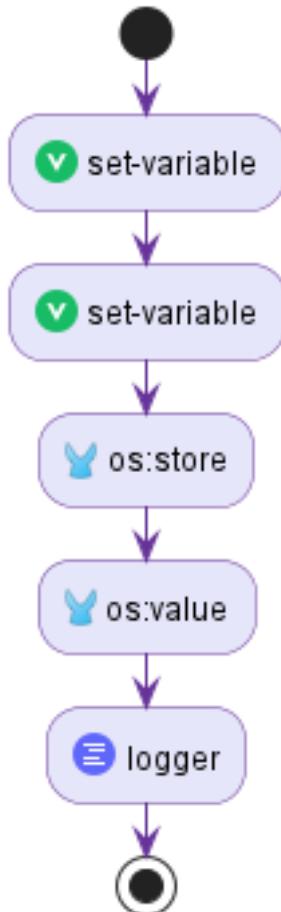
### 2.2.3 common-static-resource-flow

Path: src\main\mule\apiguard-common.xml



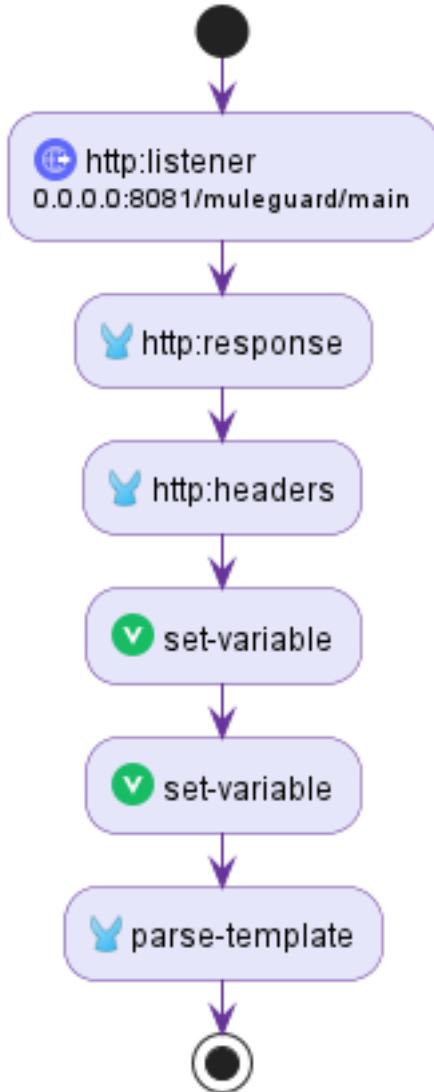
### 2.2.4 create-anonymous-session-subflow

Path: src\main\mule\muleguard-wrapper.xml



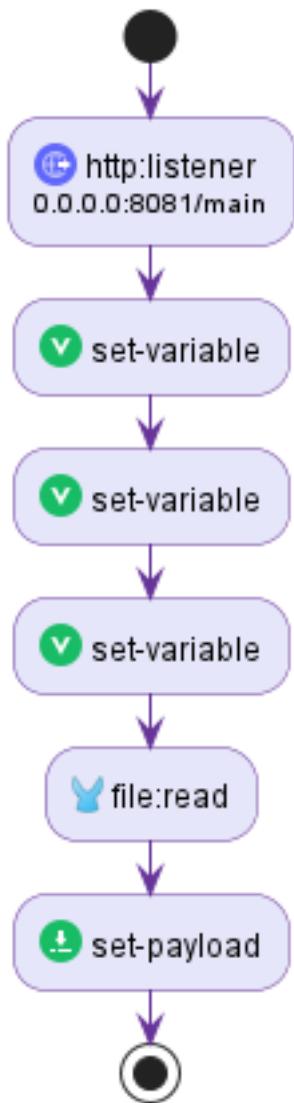
## 2.2.5 main-landing-page-flow

Path: src\main\mule\muleguard-wrapper.xml



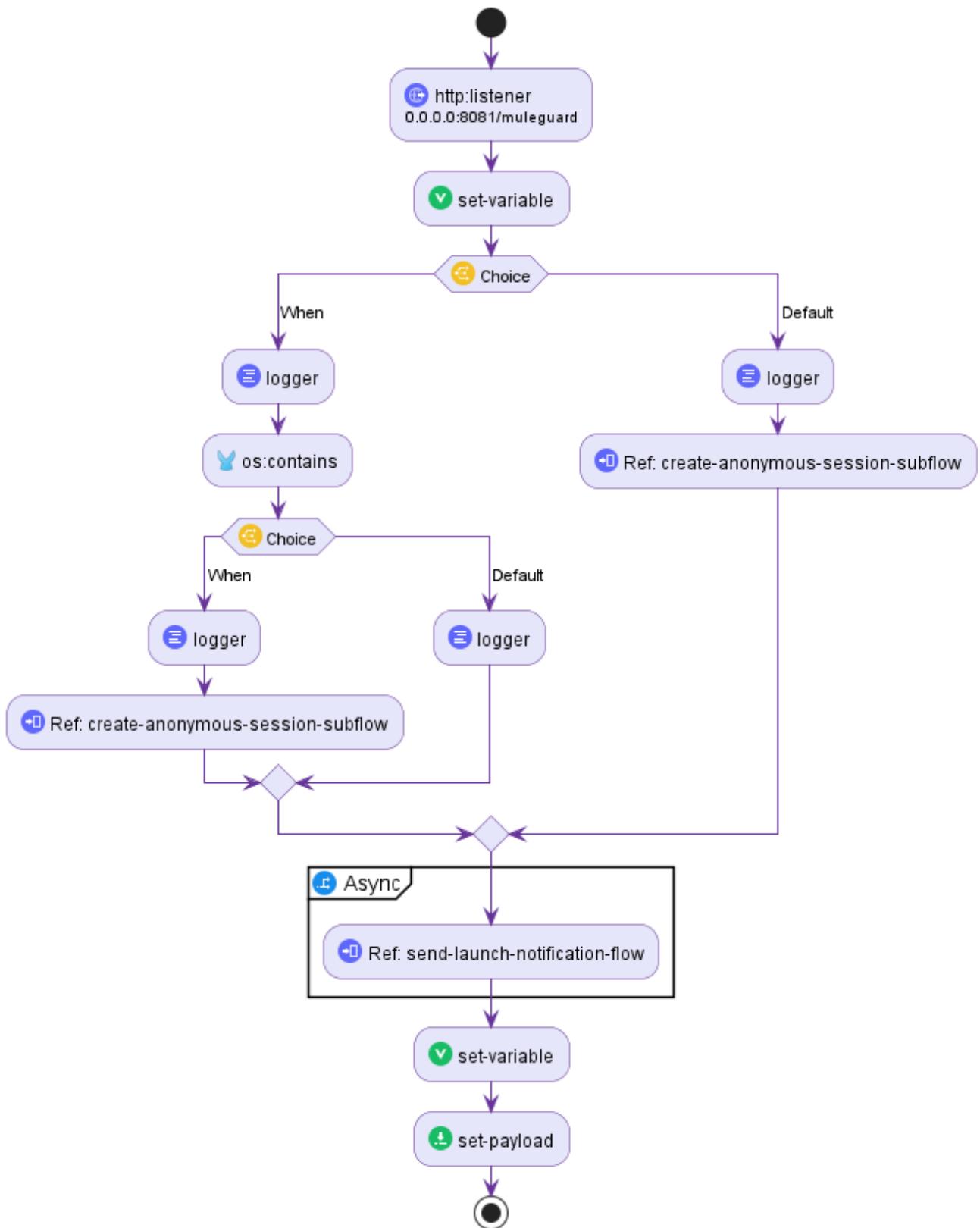
## 2.2.6 main-page-flow

Path: src\main\mule\apiguard-portal.xml



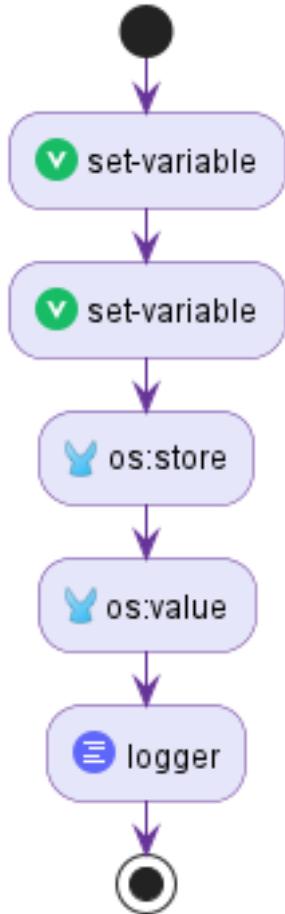
## 2.2.7 muleguard-root-flow

*Path: src\main\mule\muleguard-wrapper.xml*



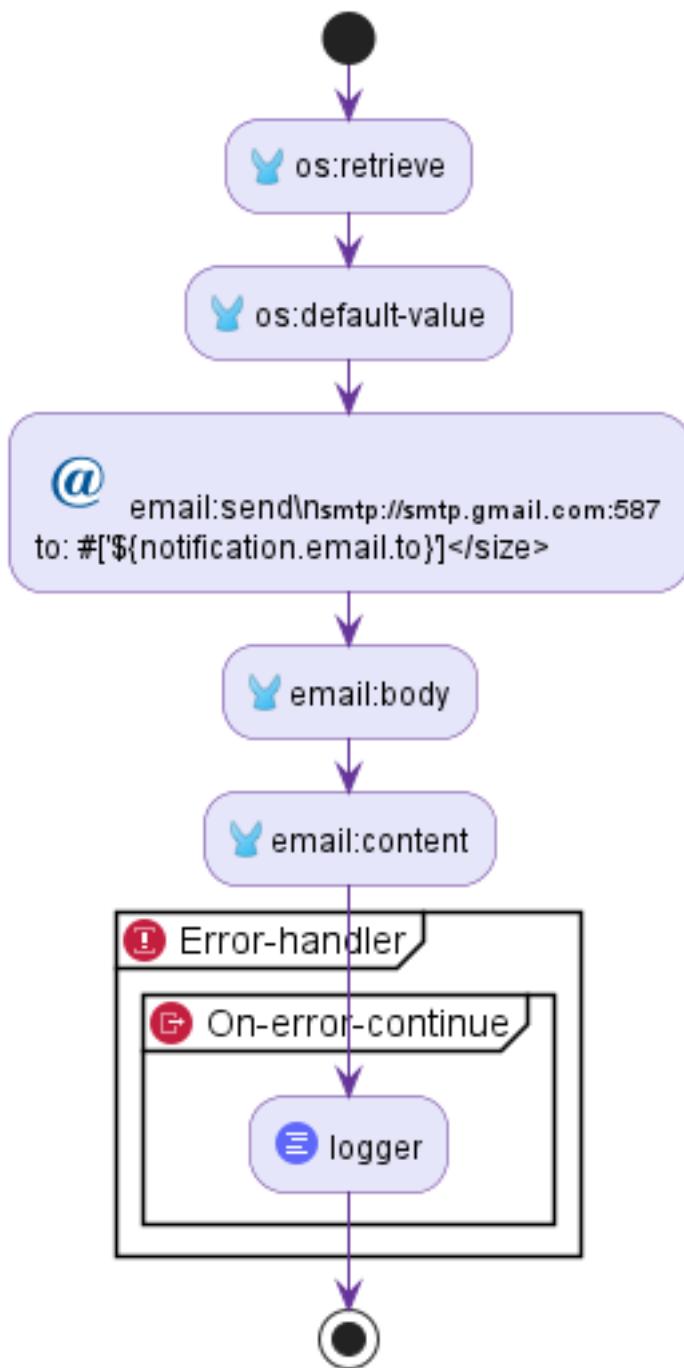
## 2.2.8 raks-create-anonymous-session-subflow

Path: src\main\mule\raksanalyzer-wrapper.xml



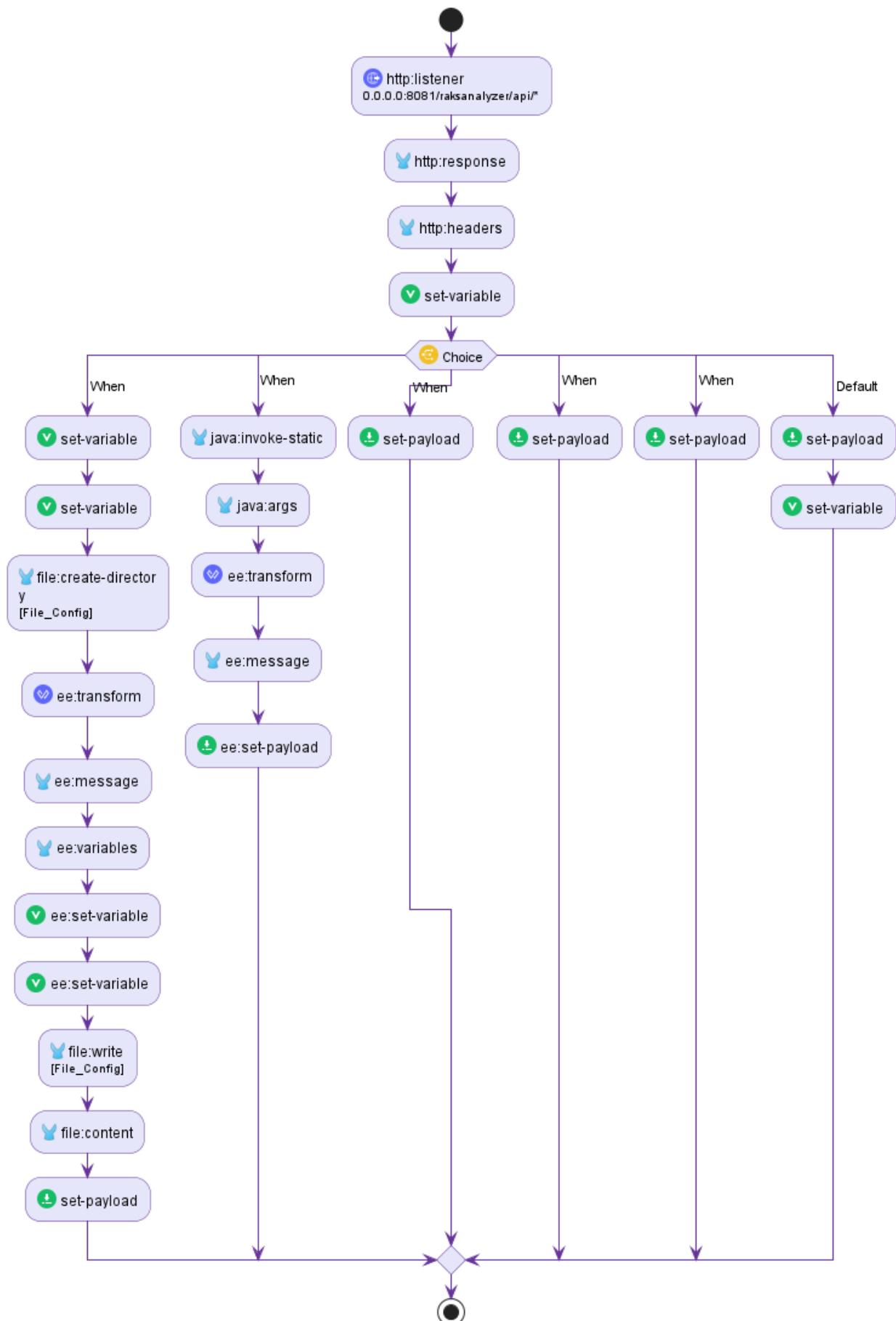
## 2.2.9 raks-send-launch-notification-flow

Path: src\main\mule\raksanalyzer-wrapper.xml



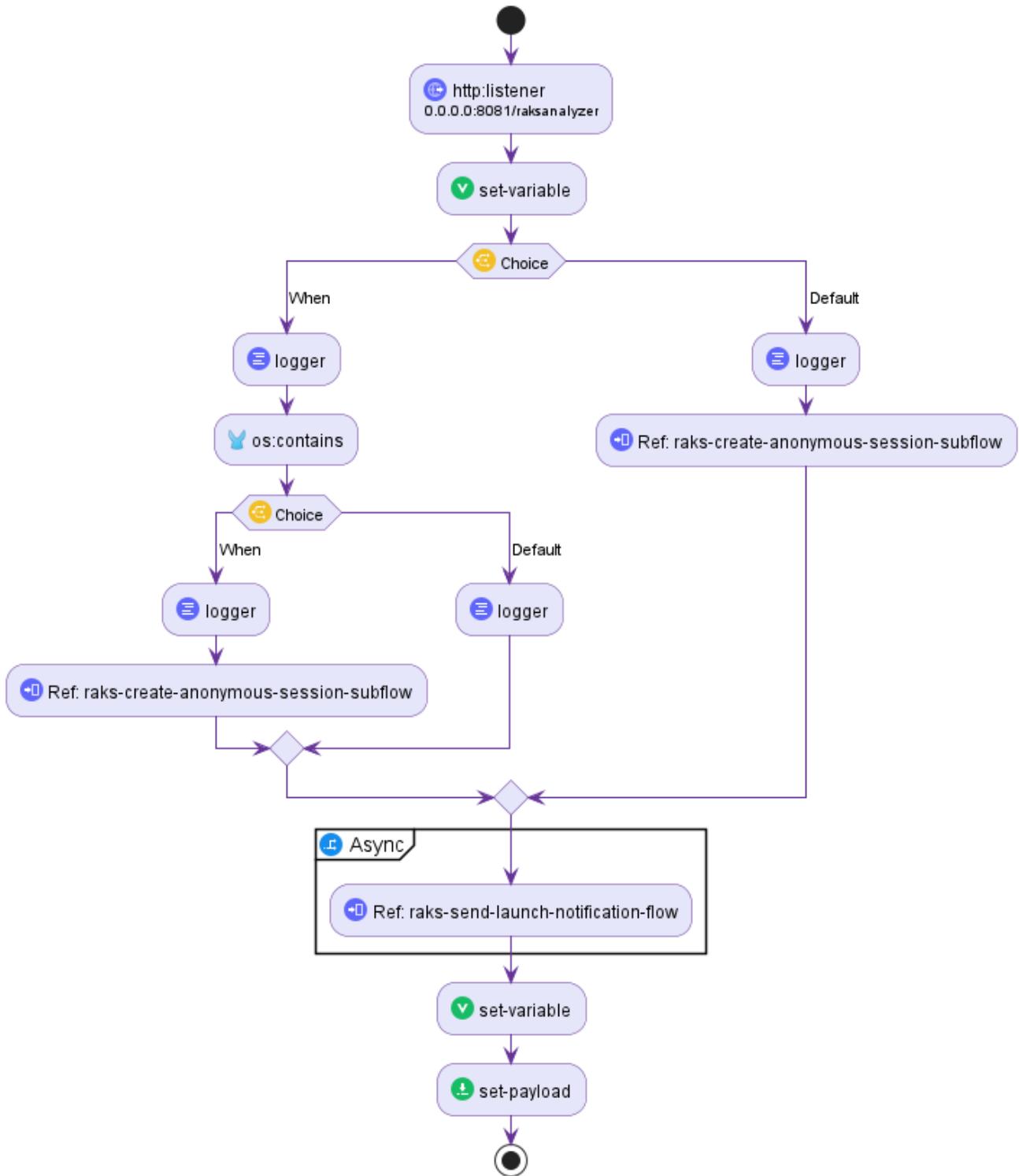
## 2.2.10 raksanalyzer-api-flow

Path: `src/main/mule/raksanalyzer-wrapper.xml`



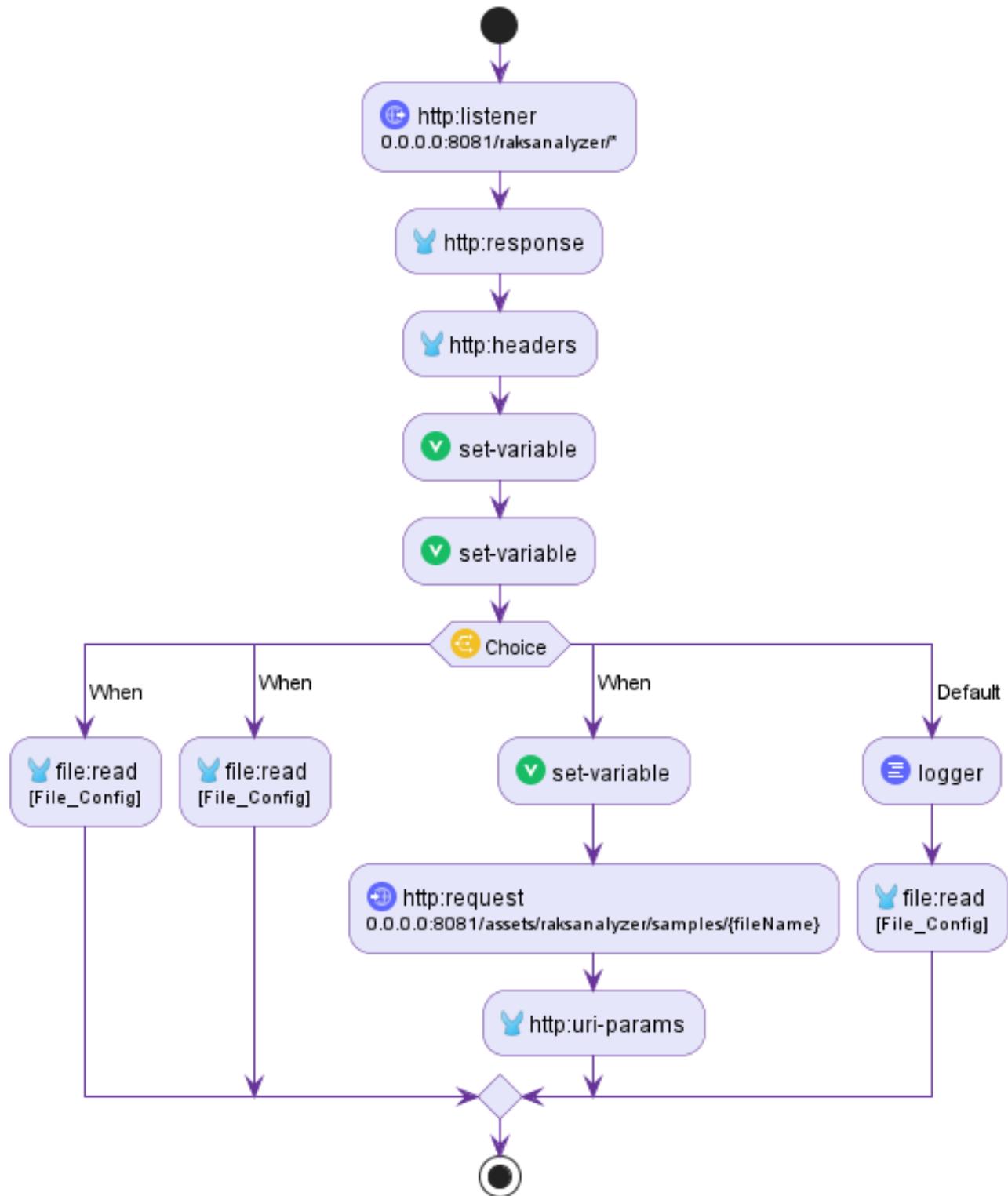
## 2.2.11 raksanalyzer-root-flow

Path: src\main\mule\raksanalyzer-wrapper.xml



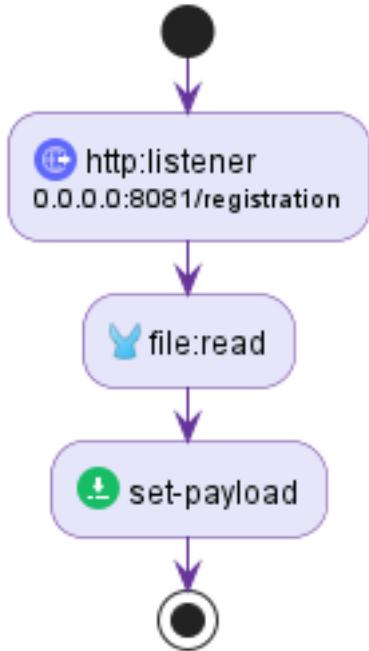
## 2.2.12 raksanalyzer-ui-flow

Path: src\main\mule\raksanalyzer-wrapper.xml



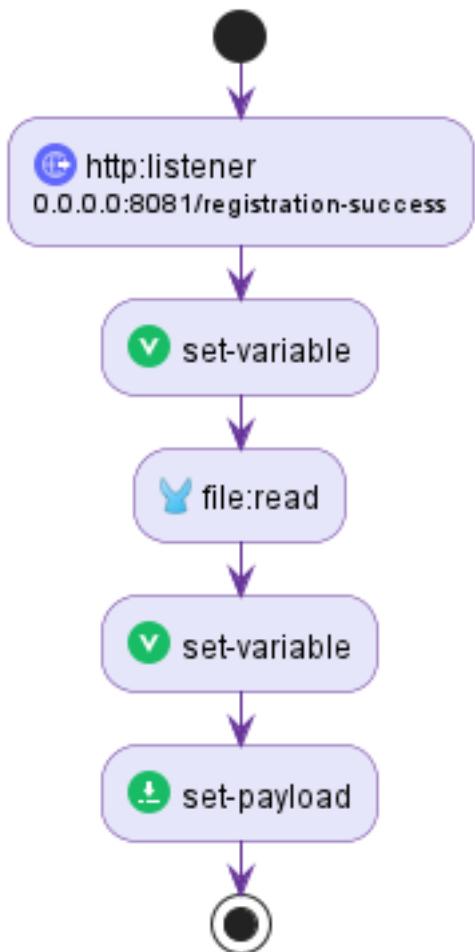
### 2.2.13 registration-page-flow

Path: src\main\mule\apiguard-portal.xml



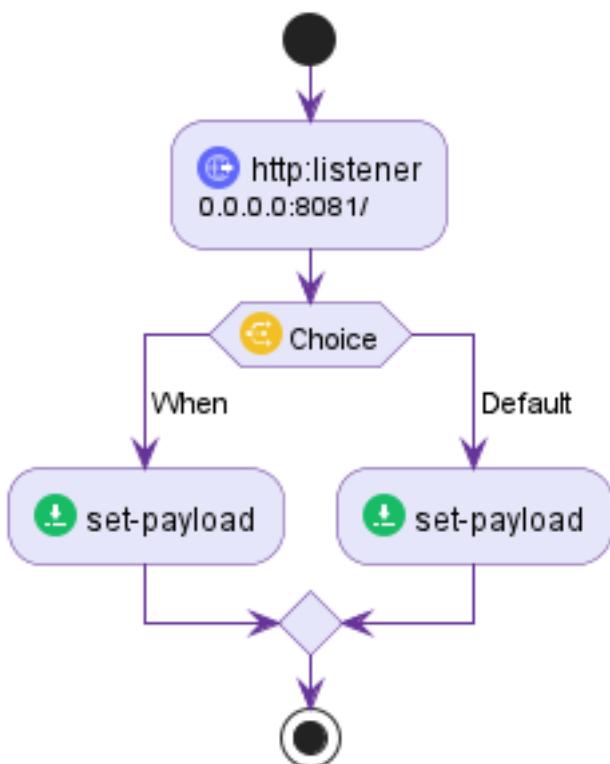
### 2.2.14 registration-success-flow

Path: src\main\mule\apiguard-portal.xml



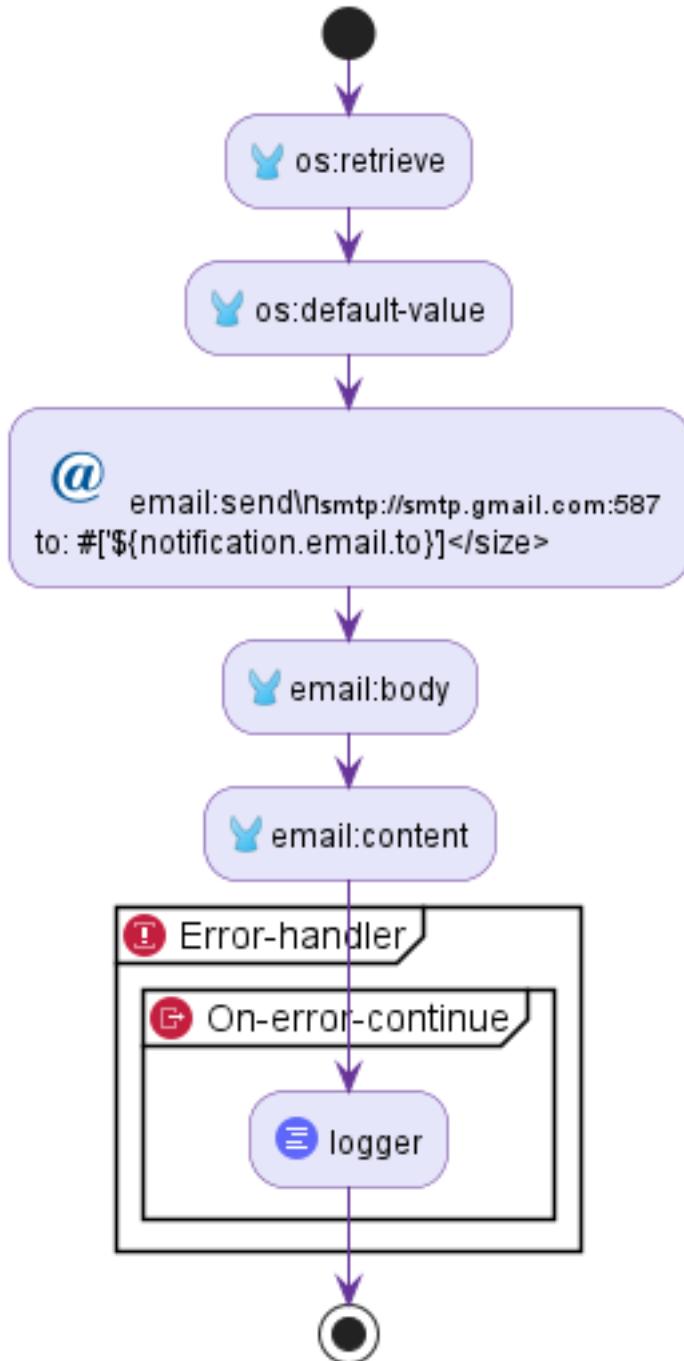
### 2.2.15 root-redirect-flow

*Path: src\main\mule\apiguard-portal.xml*



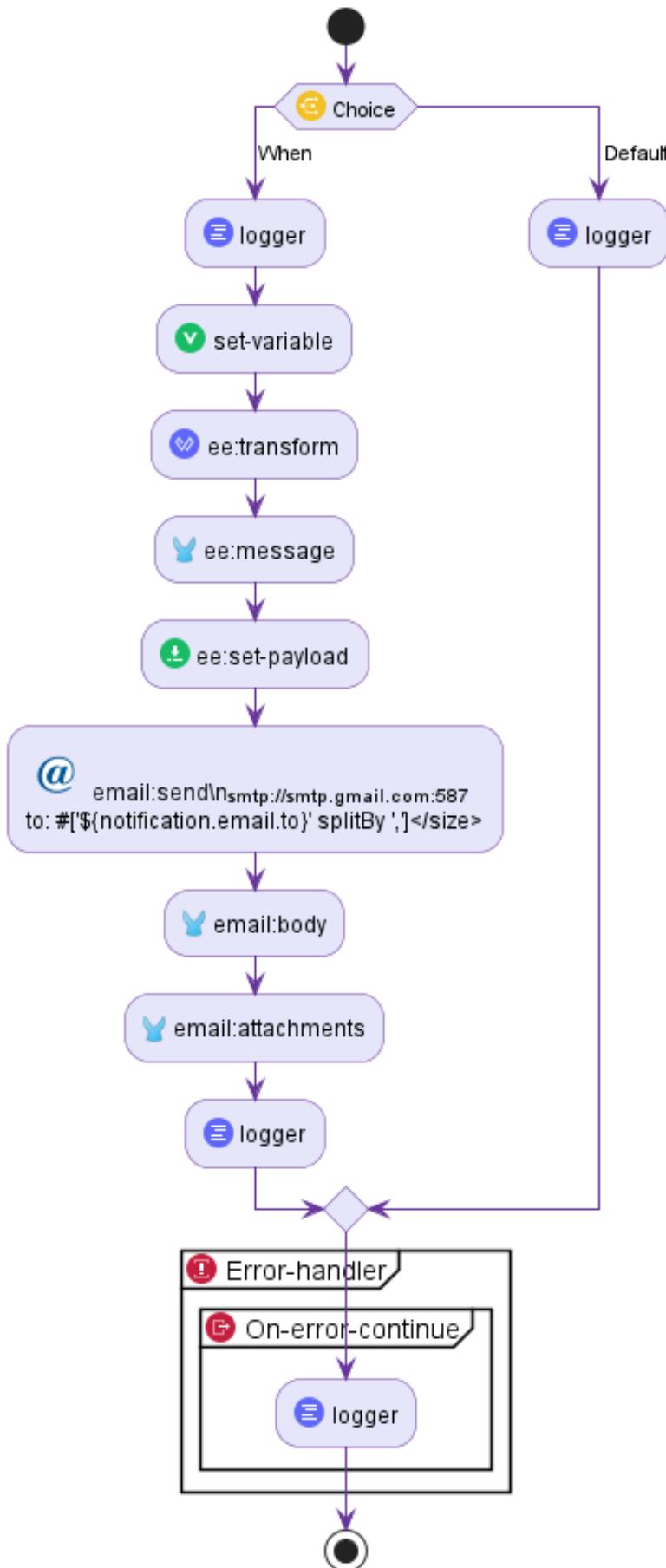
## 2.2.16 send-launch-notification-flow

Path: src\main\mule\muleguard-wrapper.xml



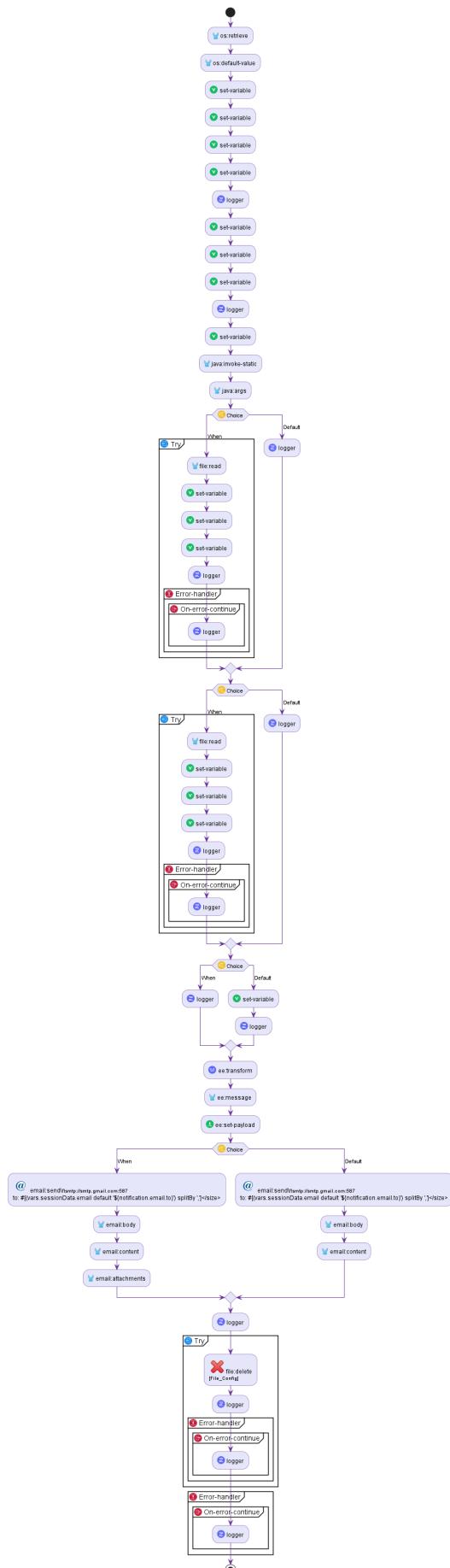
## 2.2.17 send-registration-notification-flow

Path: src\main\mule\muleguard-wrapper.xml



## 2.2.18 send-usage-notification-flow

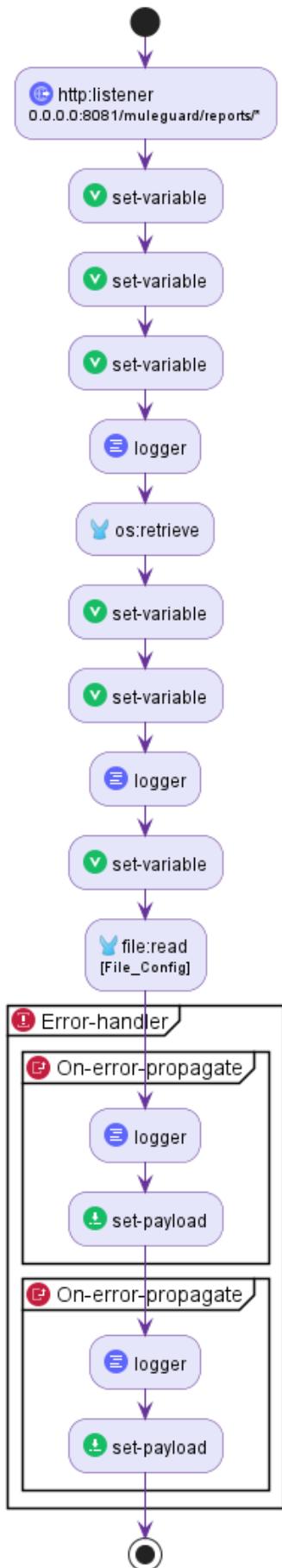
Path: src\main\mule\muleguard-wrapper.xml



(Diagram scaled to fit page)

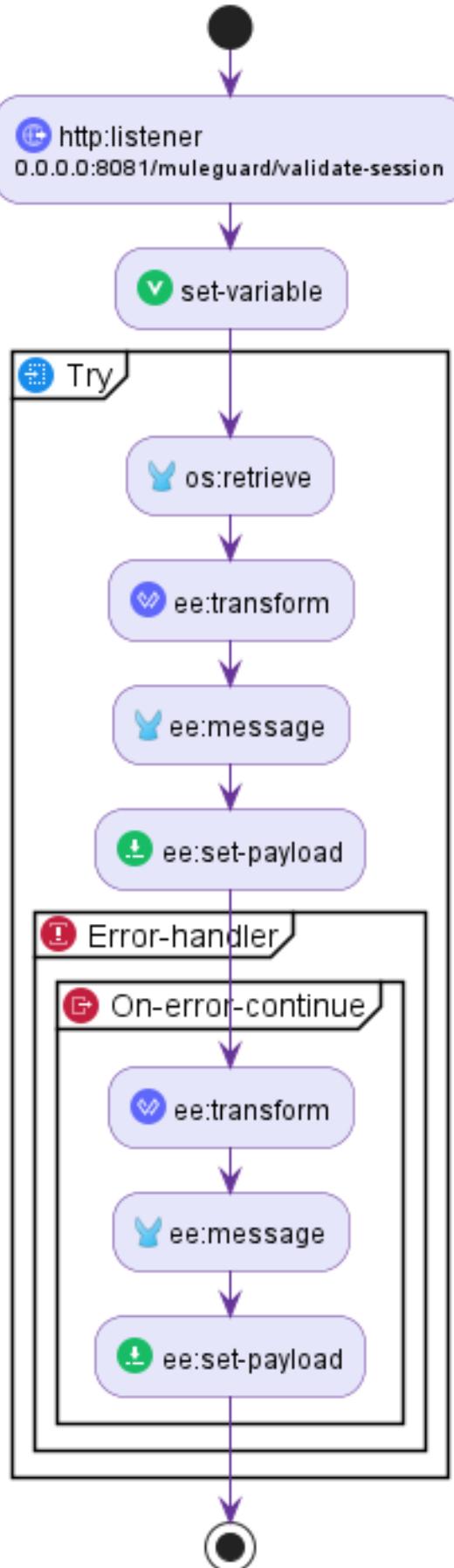
## 2.2.19 serve-report-flow

Path: src\main\mule\muleguard-wrapper.xml



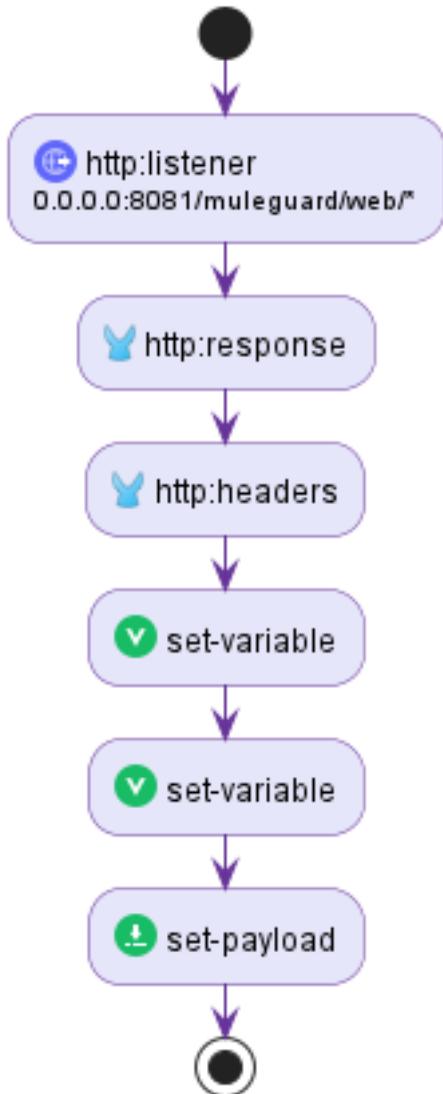
## 2.2.20 session-validation-flow

Path: src\main\mule\muleguard-wrapper.xml



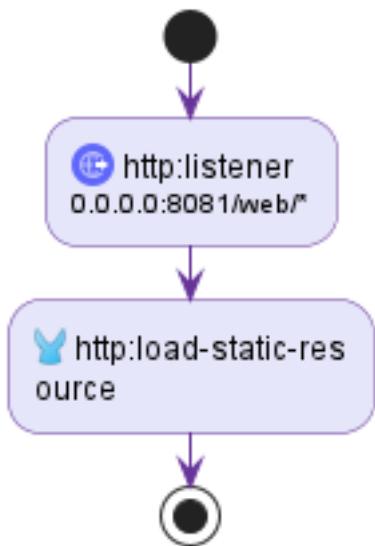
## 2.2.21 static-resource-flow

Path: src\main\mule\muleguard-wrapper.xml



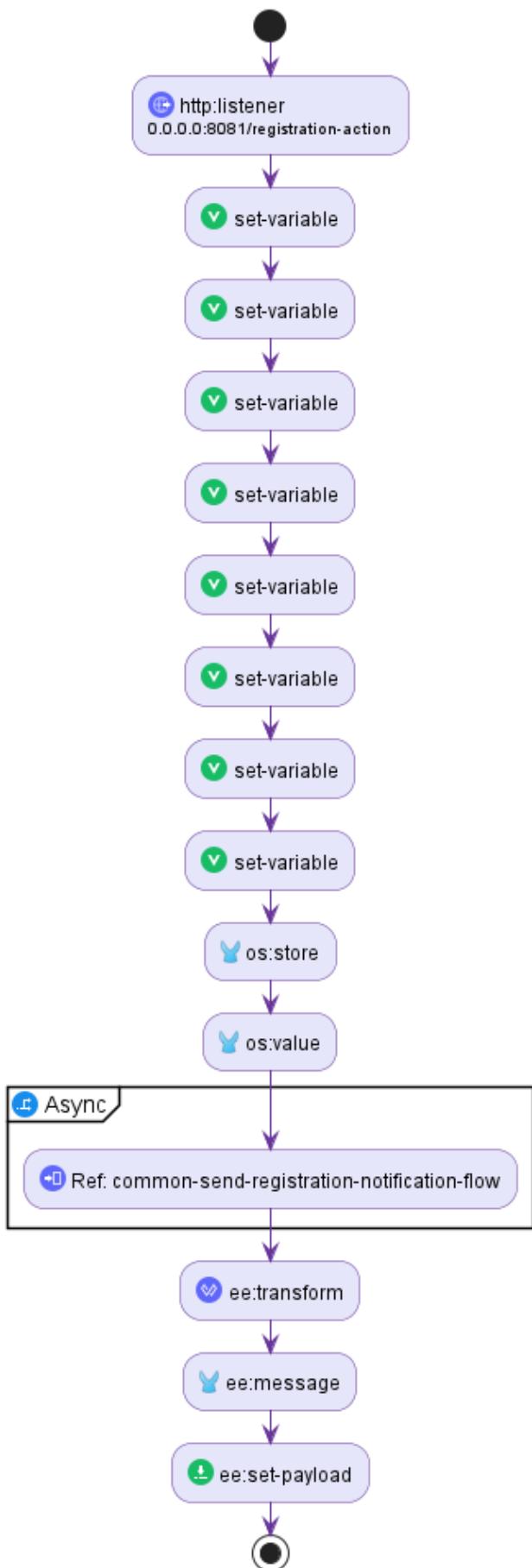
## 2.2.22 static-resources-flow

Path: src\main\mule\apiguard-portal.xml



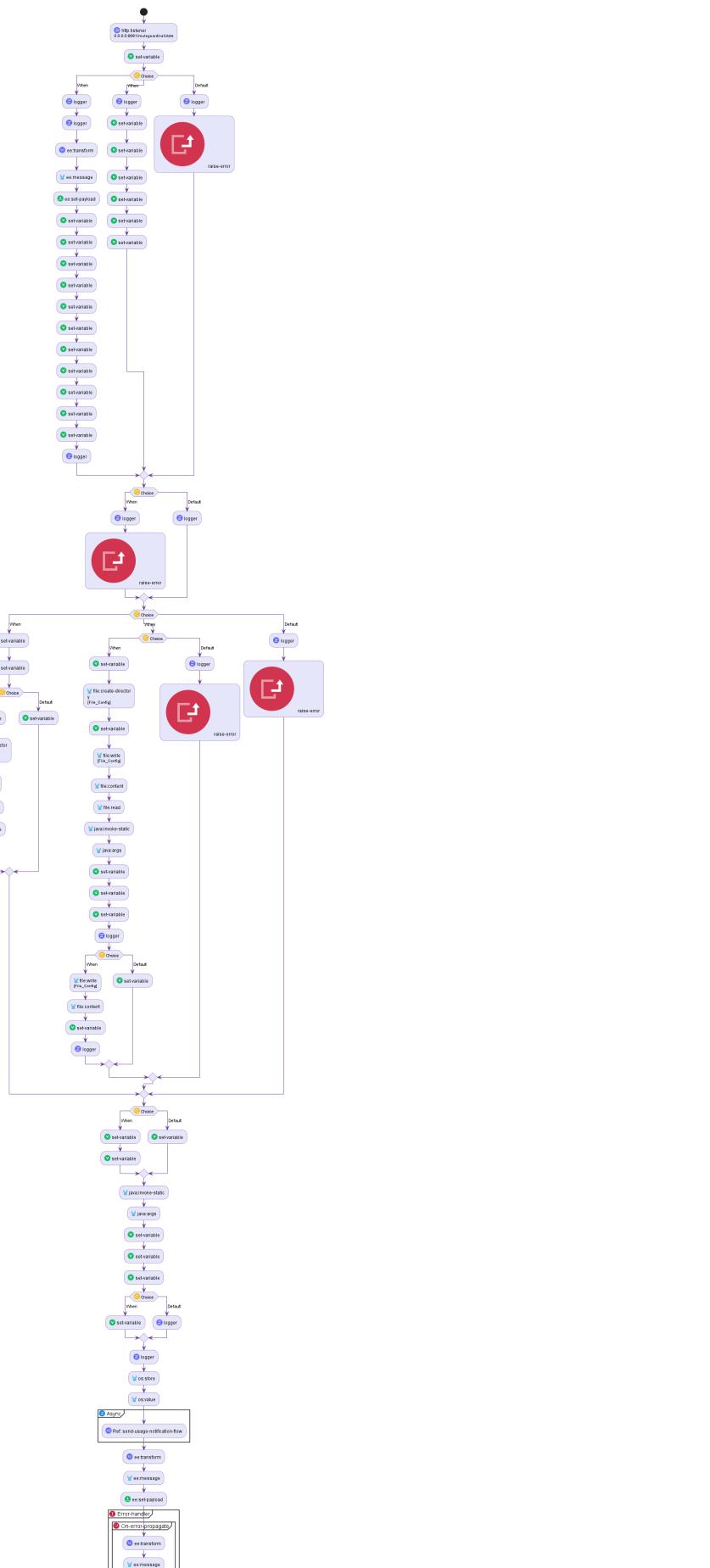
### 2.2.23 user-registration-flow

*Path: src\main\mule\apiguard-portal.xml*



## 2.2.24 validation-trigger-flow

Path: `src\main\mule\muleguard-wrapper.xml`



(Diagram scaled to fit page)

### 3. Global Configuration

#### Property Files Found: 2

- src\main\resources\web\muleguard\sample-rules.yaml
- src\main\resources\mule-app.properties

Total Properties: 92

#### 3.1 src\main\resources\mule-app.properties (92 properties)

Key	Value
registration.field.3.name	company
report.timestamp.format	yyyyMMdd-HHmmss
workspace.cleanup.retention.days	1
notification.attach.localproject.enabled	true
registration.page.title	ApiGuard Portal - Registration
http.listener.host	0.0.0.0
registration.success.page.header	ApiGuard Portal
registration.field.1.placeholder	Enter your full name
registration.field.2.placeholder	your.email@company.com
workspace.cleanup.enabled	true
notification.attach.localproject.default	false
http.listener.staticResourcesPath	/web/*
registration.field.3.required	false
registration.enabled	true
notification.email.username	rakkuma8@gmail.com
zip.extraction.ignore.folders	target,bin,build,.git,.idea,.vscode,node_modules,muleguard-reports
email.header.background	#f9f4ff
notification.email.password	fjuqjxckvosjummv
workspace.cleanup.schedule	0 0 2 * * ?
portal.page.header	ApiGuard Portal
tool.1.url	/apiguard/muleguard
muleguard.work.dir	\${mule.home}/apps/apiguardwrapper/working
http.listener.port	8081
report.timestamp.enabled	true
registration.page.footer	&copy; 2018 RAKS - Enterprise API Solution Suite - ApiGuard
registration.success.message	Registration Successful!
registration.field.3.placeholder	Your organization (optional)
registration.field.1.label	Name
muleguard.workspace.dir	\${mule.home}/apps/apiguardwrapper/workspace
registration.field.1.name	name
notification.email.host	smtp.gmail.com
registration.page.subtitle	Please provide your details to continue.

### 3.1 src\main\resources\mule-app.properties (92 properties)

Key	Value
notification.email.from	apiguard-noreply@raks.com
registration.field.2.required	true
http.listener.startPath	/
notification.attach.reports.default	true
tool.3.name	TibcoGuard
registration.success.redirect.text	Redirecting to portal in a few seconds...
notification.attach.reports.enabled	true
http.listener.basePath	/apiguard
raksanalyzer.work.dir	\${mule.home}/apps/apiguardwrapper/working/raks
notification.email.to	raksjnu@gmail.com
session.timeout.minutes	30
tool.3.url	#
registration.button.text	Open ApiGuard Portal
registration.field.2.type	email
notification.registration.email.enabled	true
notification.email.port	587
tool.4.description	Compare API Responses
notification.max.attachment.size.mb	10
registration.field.2.label	Email
tool.1.description	Mule Code Review & Validation Suite
registration.success.redirect.delay	5000
muleguard.input.local.enabled	true
tool.3.description	Tibco Code Analysis
portal.page.footer	&copy; 2018 RAKS - Enterprise API Solution Suite - ApiGuard
registration.field.1.required	true
tool.2.name	RaksAnalyzer
notification.registration.email.to	raksjnu@gmail.com
tool.2.description	Automated Documentation & Analysis
registration.page.header	ApiGuard Portal
tool.2.url	/apiguard/raksanalyzer
portal.templates.dir	\${mule.home}/apps/apiguardwrapper/templates
notification.registration.email.from	apiguard-noreply@raks.com
notification.email.subject	MuleGuard Tool Used by {name} ({emailId})
registration.success.page.footer	&copy; 2018 RAKS - Enterprise API Solution Suite - ApiGuard
app.name	ApiGuard Portal
tool.4.name	API Comparison
notification.attach.zipproject.default	false
registration.required	false
registration.field.1.type	text
tool.1.name	MuleGuard
portal.web.dir	\${mule.home}/apps/apiguardwrapper/web
registration.field.2.name	email
registration.success.page.title	ApiGuard Portal - Registration Successful
email.header.color	#663399
muleguard.web.templates.path	web/muleguard

### 3.1 src\main\resources\mule-app.properties (92 properties)

Key	Value
muleguard.reports.dir.name	
registration.button.processing	Please wait..
registration.field.3.type	text
encryption.key	rakspassphrase
email.footer.background	#f9f4ff
email.footer.color	#663399
tool.4.url	#
app.organization	RAKS
email.footer.text	&copy; 2018 RAKS - Enterprise API Solution Suite - ApiGuard
portal.page.subtitle	Select a tool from the catalog below to launch it in a new tab.
registration.field.3.label	Company
portal.page.title	ApiGuard Portal
notification.registration.email.subject	\${app.name} Registration - {name} ({email}) - {company}
notification.attach.zipproject.enabled	true
raksanalyzer.web.dir	\${mule.home}/apps/apiguardwrapper/web/raksanalyzer

## 4. Connector Configurations

**Total Configurations: 5**

### 4.1. Email\_SMTp (email:smtp-config)

Path: src\main\mule\apiguard-common.xml

Attribute	Value
doc:name	Email SMTP
name	Email_SMTp

#### 4.1.1 email:smtp-connection

Attribute	Value
password	fjuqjxckvosjummv
port	587
host	smtp.gmail.com
user	rakkuma8@gmail.com

##### 4.1.1.1 email:properties

###### 4.1.1.1.1 email:property

Attribute	Value
value	true
key	mail.smtp.starttls.enable

### 4.2. File\_Config (file:config)

Path: src\main\mule\apiguard-common.xml

Attribute	Value
doc:name	File Config
name	File_Config

### 4.3. HTTP\_Listener\_config (http:listener-config)

Path: src\main\mule\apiguard-common.xml

Attribute	Value
doc:name	HTTP Listener config
basePath	/apiguard
name	HTTP_Listener_config

#### 4.3.1 http:listener-connection

Attribute	Value
port	8081
host	0.0.0.0

### 4.4. ObjectStore\_Config (os:config)

Path: src\main\mule\apiguard-common.xml

Attribute	Value
name	ObjectStore_Config

### 4.5. Self\_HTTP\_Request\_Config (http:request-config)

Path: src\main\mule\apiguard-common.xml

Attribute	Value
doc:name	Self HTTP Request configuration
name	Self_HTTP_Request_Config

#### 4.5.1 http:request-connection

Attribute	Value
port	8081
host	0.0.0.0

## 5. Mule Flows

Total Flows: 22

### 5.1. common-send-registration-notification-flow

Path: src\main\mule\apiguard-common.xml

Type: flow

Components: 11

#### 5.1.1 logger

Attribute	Value
level	INFO
message	Sending registration notification email (Common Flow)

#### 5.1.2 ee:transform

Attribute	Value
doc:name	Prepare Reg Email Body

##### 5.1.2.1 ee:message

###### 5.1.2.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	<pre>%dw 2.0 output text/html --- "&lt;html&gt; &lt;body style='font-family: Arial, sans-serif;'&gt; &lt;div style='background-color: #f8f9fa; padding: 20px;'&gt;     &lt;h2 style='color: #663399;'&gt;? New User Registration&lt;/h2&gt; &lt;div style='background-color: white; padding: 20px; border-radius: 5px; border-left: 5px solid #663399;'&gt;         &lt;p&gt;&lt;strong&gt;Name:&lt;/strong&gt; " ++ vars.userName ++ "&lt;/p&gt;         &lt;p&gt;&lt;strong&gt;Email:&lt;/strong&gt; " ++ vars.userEmail ++ "&lt;/p&gt;         &lt;p&gt;&lt;strong&gt;Company:&lt;/strong&gt; " ++ vars.userCompany ++ "&lt;/p&gt; &lt;p&gt;&lt;strong&gt;Tool:&lt;/strong&gt; " ++ (vars.currentTool default 'ApiGuard Portal') ++ "&lt;/p&gt;         &lt;p&gt;&lt;strong&gt;Time:&lt;/strong&gt; " ++ now() ++ "&lt;/p&gt;     &lt;/div&gt; &lt;p style='color: #666; font-size: 12px; margin-top: 20px;'&gt;ApiGuard Notification System&lt;/p&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt;"</pre>

### 5.1.3 try

Attribute	Value
doc:name	Try Send Email

#### 5.1.3.1 email:send

Attribute	Value
doc:name	Send Registration Email
config-ref	Email_SMTPL
subject	ApiGuard Registration: #[vars.userName]
fromAddress	\${notification.email.from}
toAddresses	#[(vars.notificationToAddresses default '\${notification.email.to}') splitBy ',']

##### 5.1.3.1.1 email:body

Attribute	Value
contentType	text/html

##### 5.1.3.1.1.1 email:content

Attribute	Value
<![CDATA[#[...]]>	payload

#### 5.1.3.2 error-handler

##### 5.1.3.2.1 on-error-continue

Attribute	Value
doc:name	On Error Continue
logException	true
enableNotifications	true

#### 5.1.3.2.1.1 logger

Attribute	Value
doc:name	Log Email Error
level	ERROR
message	Failed to send registration email: #[error.description]

### 5.2. common-static-resource-flow

Path: src\main\mule\apiguard-common.xml

Type: flow

Components: 2

#### 5.2.1 http:listener

Attribute	Value
path	/assets/*
config-ref	HTTP_Listener_config
allowedMethods	GET

#### 5.2.2 http:load-static-resource

Attribute	Value
resourceBasePath	\${app.home}/web/assets/

### 5.3. root-redirect-flow

Path: src\main\mule\apiguard-portal.xml

Type: flow

Components: 6

#### 5.3.1 http:listener

Attribute	Value
doc:name	Listener
path	\${http.listener.startPath}
doc:id	start-listener-id
config-ref	HTTP_Listener_config

### 5.3.2 choice

#### 5.3.2.1 when

Attribute	Value
expression	#['\${registration.enabled}' == 'true']

#### 5.3.2.1.1 set-payload

Attribute	Value
mimeType	text/html
value	#['<html><head><meta http-equiv="refresh" content="0;url=/apiguard/registration"></head><body>Redirecting...</body></html>']

#### 5.3.2.2 otherwise

#### 5.3.2.2.1 set-payload

Attribute	Value
mimeType	text/html
value	#['<html><head><meta http-equiv="refresh" content="0;url=/apiguard/main"></head><body>Redirecting...</body></html>']

### 5.4. registration-page-flow

Path: src\main\mule\apiguard-portal.xml

Type: flow

Components: 3

#### 5.4.1 http:listener

Attribute	Value
doc:name	Listener
path	/registration
config-ref	HTTP_Listener_config

#### 5.4.2 file:read

Attribute	Value
doc:name	Read registration template
path	\${mule.home}/apps/apiguardwrapper/templates/registration.template.html

#### 5.4.3 set-payload

Attribute	Value
doc:name	Replace placeholders
mimeType	text/html
value	<pre>#[%dw 2.0 output text/plain --- payload replace '{{registration.page.title}}' with p('registration.page.title') replace '{{registration.page.header}}' with p('registration.page.header') replace '{{registration. page.subtitle}}' with p('registration.page.subtitle') replace '{{registration.button.text}}' with p('registration.button.text') replace '{{registration.button.processing}}' with p('registration.button.processing') replace '{{registration.field.1.name}}' with p('registration.field.1.name') replace '{{registration.field.1.label}}' with p('registration. field.1.label') replace '{{registration.field.1.type}}' with p('registration.field.1.type') replace '{{registration.field.1.required}}' with p('registration.field.1.required') replace  '{{registration.field.1.placeholder}}' with p('registration.field.1.placeholder') replace '{{registration.field.2.name}}' with p('registration.field.2.name') replace '{{registration. field.2.label}}' with p('registration.field.2.label') replace '{{registration.field.2.type}}' with p('registration.field.2.type') replace '{{registration.field.2.required}}' with p('registration.field.2.required') replace '{{registration.field.2.placeholder}}' with p('registration.field.2.placeholder') replace '{{registration.field.3.name}}' with p('registration.field.3.name') replace '{{registration.field.3.label}}' with p('registration. field.3.label') replace '{{registration.field.3.type}}' with p('registration.field.3.type') replace '{{registration.field.3.required}}' with p('registration.field.3.required') replace '{{registration.field.3.placeholder}}' with p('registration.field.3.placeholder') replace '{{registration.page.footer}}' with p('registration.page.footer')]</pre>

#### 5.5. main-page-flow

Path: src\main\mule\apiguard-portal.xml

Type: flow

Components: 6

##### 5.5.1 http:listener

Attribute	Value
doc:name	Listener
path	/main
doc:id	index-listener-id
config-ref	HTTP_Listener_config

##### 5.5.2 set-variable

Attribute	Value
variableName	sessionId
value	#[\$attributes.queryParams.session default ""]

### 5.5.3 set-variable

Attribute	Value
variableName	tool1Url
value	#[\$p('tool.1.url') ++ (if (vars.sessionId != "") '?session=' ++ vars.sessionId else "")]

### 5.5.4 set-variable

Attribute	Value
variableName	tool2Url
value	#[\$p('tool.2.url') ++ (if (vars.sessionId != "") '?session=' ++ vars.sessionId else "")]

### 5.5.5 file:read

Attribute	Value
doc:name	Read portal template
path	#{portal.templates.dir}/index.template.html

### 5.5.6 set-payload

Attribute	Value
doc:name	Replace placeholders
mimeType	text/html
value	<pre>#[%dw 2.0 output text/plain --- payload replace '{{portal.page.title}}' with p('portal.page.title') replace '{{portal.page.header}}' with p('portal.page.header') replace '{{portal.page.subtitle}}' with p('portal.page.subtitle') replace '{{portal.page.footer}}' with p('portal.page.footer') replace '{{tool.1.name}}' with p('tool.1.name') replace '{{tool.1.description}}' with p('tool.1.description') replace '{{tool.1.url}}' with vars.tool1Url replace '{{tool.2.name}}' with p('tool.2.name') replace '{{tool.2.description}}' with p('tool.2.description') replace '{{tool.2.url}}' with vars.tool2Url replace '{{tool.3.name}}' with p('tool.3.name') replace '{{tool.3.description}}' with p('tool.3.description') replace '{{tool.3.url}}' with p('tool.3.url') replace '{{tool.4.name}}' with p('tool.4.name') replace '{{tool.4.description}}' with p('tool.4.description') replace '{{tool.4.url}}' with p('tool.4.url')]</pre>

## 5.6. user-registration-flow

Path: src\main\mule\apiguard-portal.xml

Type: flow

Components: 16

### 5.6.1 http:listener

Attribute	Value
path	/registration-action
config-ref	HTTP_Listener_config
allowedMethods	POST

## 5.6.2 set-variable

Attribute	Value
variableName	userName
value	#[\$payload.name]

## 5.6.3 set-variable

Attribute	Value
variableName	userEmail
value	#[\$payload.email]

## 5.6.4 set-variable

Attribute	Value
variableName	userCompany
value	#[\$payload.company default 'N/A']

## 5.6.5 set-variable

Attribute	Value
variableName	userIpAddress
value	#[\$attributes.headers['x-forwarded-for'] default attributes.remoteAddress]

## 5.6.6 set-variable

Attribute	Value
variableName	userAgent
value	#[\$attributes.headers['user-agent']]

## 5.6.7 set-variable

Attribute	Value
variableName	sessionStartTime
value	#[\$now()]

## 5.6.8 set-variable

Attribute	Value
variableName	currentTool
value	Portal Registration

### 5.6.9 set-variable

Attribute	Value
variableName	sessionId
value	#[uuid()]

### 5.6.10 os:store

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

### 5.6.10.1 os:value

Attribute	Value
<![CDATA[# [...]]]>	<pre>output application/java --- {     name: vars.userName,     email: vars.userEmail,     company: vars.userCompany,     ipAddress: vars.userIpAddress,     userAgent: vars.userAgent,     startTime: vars.sessionStartTime }</pre>

### 5.6.11 async

#### 5.6.11.1 flow-ref

Attribute	Value
name	common-send-registration-notification-flow

### 5.6.12 ee:transform

#### 5.6.12.1 ee:message

##### 5.6.12.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	%dw 2.0 output application/json indent=false --- {status: "success", message: "Registration successful", redirectUrl: "/apiguard/registration-success?session=" ++ vars.sessionId}

## 5.7. registration-success-flow

Path: src\main\mule\apiguard-portal.xml

Type: flow

Components: 5

### 5.7.1 http:listener

Attribute	Value
path	/registration-success
config-ref	HTTP_Listener_config
allowedMethods	GET

### 5.7.2 set-variable

Attribute	Value
variableName	sessionId
value	#@[attributes.queryParams.session default "]

### 5.7.3 file:read

Attribute	Value
doc:name	Read success template
path	#{portal.templates.dir}/registration-success.template.html

### 5.7.4 set-variable

Attribute	Value
variableName	redirectLink
value	#/apiguard/main' ++ (if (vars.sessionId != "") '?session=' ++ vars.sessionId else "")]

### 5.7.5 set-payload

Attribute	Value
doc:name	Replace placeholders
mimeType	text/html
value	<pre>#[%dw 2.0 output text/plain --- payload replace '{{registration.success.page.title}}' with p('registration.success.page.title') replace '{{registration.success.page.header}}' with p('registration.success.page.header') replace '{{registration.success.message}}' with p('registration.success.message') replace '{{registration.success.redirect.text}}' with p('registration.success.redirect.text') replace '{{registration.success.redirect.delay}}' with p('registration.success.redirect.delay') replace '{{registration.button.text}}' with p('registration.button.text') replace '{{registration.success.page.footer}}' with p('registration.success.page.footer') replace '{{registration.success.redirect.link}}' with vars.redirectLink]</pre>

## 5.8. static-resources-flow

Path: src\main\mule\apiguard-portal.xml

Type: flow

Components: 2

### 5.8.1 http:listener

Attribute	Value
doc:name	Listener
path	\${http.listener.staticResourcesPath}
doc:id	static-listener-id
config-ref	HTTP_Listener_config

### 5.8.2 http:load-static-resource

Attribute	Value
doc:name	Load static resource
doc:id	load-static-id
resourceBasePath	\${app.home}/web/

## 5.9. muleguard-root-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 19

### 5.9.1 http:listener

Attribute	Value
path	/muleguard
config-ref	HTTP_Listener_config
allowedMethods	GET

## 5.9.2 set-variable

Attribute	Value
variableName	sessionId
value	#[attributes.queryParams.session]

## 5.9.3 choice

### 5.9.3.1 when

Attribute	Value
expression	#[vars.sessionId != null]

#### 5.9.3.1.1 logger

Attribute	Value
level	INFO
message	#['Existing session detected: ' ++ vars.sessionId]

#### 5.9.3.1.2 os:contains

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]
target	sessionExists

#### 5.9.3.1.3 choice

##### 5.9.3.1.3.1 when

Attribute	Value
expression	#![vars.sessionExists]

##### 5.9.3.1.3.1.1 logger

Attribute	Value
level	WARN
message	Session ID provided but not found in store. Creating new anonymous session.

##### 5.9.3.1.3.1.2 flow-ref

Attribute	Value
name	create-anonymous-session-subflow

### 5.9.3.1.3.2 otherwise

#### 5.9.3.1.3.2.1 logger

Attribute	Value
level	DEBUG
message	Session valid.

### 5.9.3.2 otherwise

#### 5.9.3.2.1 logger

Attribute	Value
level	INFO
message	No session provided. Creating anonymous session.

#### 5.9.3.2.2 flow-ref

Attribute	Value
name	create-anonymous-session-subflow

### 5.9.4 async

#### 5.9.4.1 flow-ref

Attribute	Value
name	send-launch-notification-flow

### 5.9.5 set-variable

Attribute	Value
variableName	redirectLocation
value	#['/apiguard/muleguard/main?session=' ++ vars.sessionId]

### 5.9.6 set-payload

Attribute	Value
mimeType	text/html
value	#['<html><head><meta http-equiv="refresh" content="0;url=' ++ vars.redirectLocation ++ '"></head><body>Redirecting...</body></html>']

## 5.10. send-launch-notification-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 8

### 5.10.1 os:retrieve

Attribute	Value
objectStore	User_Session_Store
key	#[{vars.sessionId}]
target	sessionData

#### 5.10.1.1 os:default-value

Attribute	Value
<![CDATA[#[...]]>	{ name: 'Unknown', email: '\${notification.email.to}', company: 'N/A' }

### 5.10.2 email:send

Attribute	Value
config-ref	Email_SMTPh
subject	#[\${notification.email.subject}] replace '{name}' with vars.sessionData.name replace '{emailld}' with vars.sessionData.email ++ '- Launched MuleGuard'
fromAddress	#{notification.email.from}
toAddresses	#[\${notification.email.to}]

#### 5.10.2.1 email:body

Attribute	Value
contentType	text/html

#### 5.10.2.1.1 email:content

Attribute	Value
<![CDATA[#[...]]>	output text/plain --- "User " ++ vars.sessionData.name ++ " (" ++ vars.sessionData.email ++ ") from " ++ vars.sessionData.company ++ " launched MuleGuard."

### 5.10.3 error-handler

#### 5.10.3.1 on-error-continue

##### 5.10.3.1.1 logger

Attribute	Value
level	WARN
message	Failed to send launch notification

## 5.11. main-landing-page-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 6

### 5.11.1 http:listener

Attribute	Value
path	/muleguard/main
config-ref	HTTP_Listener_config
allowedMethods	GET

#### 5.11.1.1 http:response

##### 5.11.1.1.1 http:headers

Attribute	Value
<![CDATA[#[...]]>	#{{ "Content-Type": "text/html; charset=UTF-8" }}

## 5.11.2 set-variable

Attribute	Value
variableName	localInputEnabled
value	#{muleguard.input.local.enabled}

## 5.11.3 set-variable

Attribute	Value
variableName	registrationRequired
value	#{registration.required}

## 5.11.4 parse-template

Attribute	Value
location	#{muleguard.web.templates.path}/index.html

## 5.12. static-resource-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 6

### 5.12.1 http:listener

Attribute	Value
path	/muleguard/web/*
config-ref	HTTP_Listener_config
allowedMethods	GET

#### 5.12.1.1 http:response

##### 5.12.1.1.1 http:headers

Attribute	Value
<![CDATA[#[...]]>	output application/java --- { "Content-Type": vars.mimeType default "application/octet-stream" }

### 5.12.2 set-variable

Attribute	Value
variableName	resourcePath
value	#[@attributes.relativePath replace '/muleguard/web/' with "]

### 5.12.3 set-variable

Attribute	Value
variableName	mimeType
value	#[ if (vars.resourcePath endsWith '.html') 'text/html; charset=UTF-8' else if (vars.resourcePath endsWith '.css') 'text/css; charset=UTF-8' else if (vars.resourcePath endsWith '.js') 'application/javascript; charset=UTF-8' else if (vars.resourcePath endsWith '.svg') 'image/svg+xml' else if (vars.resourcePath endsWith '.png') 'image/png' else if (vars.resourcePath endsWith '.jpg') 'image/jpeg' else if (vars.resourcePath endsWith '.json') 'application/json; charset=UTF-8' else 'application/octet-stream' ]

### 5.12.4 set-payload

Attribute	Value
value	#[readUrl('classpath://web/muleguard/' ++ vars.resourcePath, 'application/octet-stream')]

## 5.13. session-validation-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 12

### 5.13.1 http:listener

Attribute	Value
path	/muleguard/validate-session
config-ref	HTTP_Listener_config
allowedMethods	GET

### 5.13.2 set-variable

Attribute	Value
variableName	sessionId
value	#[attributes.queryParams.session]

### 5.13.3 try

#### 5.13.3.1 os:retrieve

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

#### 5.13.3.2 ee:transform

##### 5.13.3.2.1 ee:message

###### 5.13.3.2.1.1 ee:set-payload

Attribute	Value
<![CDATA[#...]]>	%dw 2.0 output application/json --- {valid: true, sessionId: vars.sessionId}

#### 5.13.3.3 error-handler

##### 5.13.3.3.1 on-error-continue

Attribute	Value
type	OS:KEY_NOT_FOUND

#### 5.13.3.3.1.1 ee:transform

##### 5.13.3.3.1.1.1 ee:message

###### 5.13.3.3.1.1.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	%dw 2.0 output application/json --- {valid: false, message: "Session expired or not found"}

### 5.14. validation-trigger-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 114

#### 5.14.1 http:listener

Attribute	Value
path	/muleguard/validate
config-ref	HTTP_Listener_config
allowedMethods	POST

#### 5.14.2 set-variable

Attribute	Value
variableName	contentType
value	#[attributes.headers['content-type'] default 'unknown']

#### 5.14.3 choice

##### 5.14.3.1 when

Attribute	Value
expression	#[vars.contentType contains 'multipart/form-data']

###### 5.14.3.1.1 logger

Attribute	Value
level	INFO
message	Processing multipart/form-data request

#### 5.14.3.1.2 logger

Attribute	Value
level	INFO
message	#['Available multipart parts: ' ++ (payload.parts pluck \$\$ joinBy ', ')]

#### 5.14.3.1.3 ee:transform

##### 5.14.3.1.3.1 ee:message

###### 5.14.3.1.3.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	%dw 2.0 output application/java --- { userSessionId: payload.parts.session.content default null, validationMode: payload.parts.mode.content default null, pathContent: payload.parts.path.content default null, zipFileContent: payload.parts.zipFile.content default null, zipFilename: payload.parts.zipFile.headers['Content-Disposition'].filename default "Uploaded ZIP File", customRulesContent: payload.parts.customRules.content default null, attachReports: payload.parts.attachReports.content default null, attachInput: payload.parts.attachInput.content default null, attachProject: payload.parts.attachProject.content default null }

#### 5.14.3.1.4 set-variable

Attribute	Value
variableName	userSessionId
value	#[trim(payload.userSessionId default "")]

#### 5.14.3.1.5 set-variable

Attribute	Value
variableName	validationMode
value	#[trim(payload.validationMode default "")]

#### 5.14.3.1.6 set-variable

Attribute	Value
variableName	pathContent
value	#[trim(payload.pathContent default "")]

#### 5.14.3.1.7 set-variable

Attribute	Value
variableName	zipFileContent
value	#[payload.zipFileContent]

#### 5.14.3.1.8 set-variable

Attribute	Value
variableName	zipFilename
value	#[payload.zipFilename]

#### 5.14.3.1.9 set-variable

Attribute	Value
variableName	customRulesContent
value	#[payload.customRulesContent]

#### 5.14.3.1.10 set-variable

Attribute	Value
variableName	baseUrl
value	#[(attributes.headers['x-forwarded-proto'] default 'http') ++ ':' ++ (attributes.headers['x-forwarded-host'] default attributes.headers.host)]

#### 5.14.3.1.11 set-variable

Attribute	Value
variableName	isMultipart
value	#[true]

#### 5.14.3.1.12 set-variable

Attribute	Value
variableName	userWantsReportAttachment
value	#[trim(payload.attachReports default 'false')]

#### 5.14.3.1.13 set-variable

Attribute	Value
variableName	userWantsInputAttachment
value	#[trim(payload.attachInput default 'false')]

#### 5.14.3.1.14 set-variable

Attribute	Value
variableName	userWantsProjectAttachment
value	#[trim(payload.attachProject default 'false')]

#### 5.14.3.1.15 logger

Attribute	Value
level	INFO
message	#{'Extracted - sessionId: ' ++ (vars.userSessionId default 'null') ++ ', mode: ' ++ (vars.validationMode default 'null') ++ ', path: ' ++ (vars.pathContent default 'N/A') ++ ', zipFile: ' ++ (vars.zipFileContent != null) ++ ', customRules: ' ++ (vars.customRulesContent != null) ++ ', Attach[Report=' ++ vars.userWantsReportAttachment ++ ', Input=' ++ vars.userWantsInputAttachment ++ ', LocalProject=' ++ vars.userWantsProjectAttachment ++ ']'}

#### 5.14.3.2 when

Attribute	Value
expression	#{vars.contentType contains 'application/json'}

#### 5.14.3.2.1 logger

Attribute	Value
level	INFO
message	Processing application/json request

#### 5.14.3.2.2 set-variable

Attribute	Value
variableName	userSessionId
value	#[payload.session default null]

#### 5.14.3.2.3 set-variable

Attribute	Value
variableName	validationMode
value	#[payload.mode default null]

#### 5.14.3.2.4 set-variable

Attribute	Value
variableName	pathContent
value	#[payload.path default null]

#### 5.14.3.2.5 set-variable

Attribute	Value
variableName	zipFileContent
value	#[null]

#### 5.14.3.2.6 set-variable

Attribute	Value
variableName	customRulesContent
value	#[null]

#### 5.14.3.2.7 set-variable

Attribute	Value
variableName	isMultipart
value	#[false]

#### 5.14.3.3 otherwise

##### 5.14.3.3.1 logger

Attribute	Value
level	ERROR
message	#['Unsupported content type: ' ++ vars.contentType]

##### 5.14.3.3.2 raise-error

Attribute	Value
description	Unsupported content type
type	MULEGUARD:UNSUPPORTED_CONTENT_TYPE

#### 5.14.4 choice

##### 5.14.4.1 when

Attribute	Value
expression	#[vars.userSessionId == null or vars.validationMode == null]

##### 5.14.4.1.1 logger

Attribute	Value
level	ERROR
message	#['Missing required fields - userSessionId: ' ++ (vars.userSessionId != null) ++ ', validationMode: ' ++ (vars.validationMode != null)]

#### 5.14.4.1.2 raise-error

Attribute	Value
description	Missing required fields: session and/or mode
type	MULEGUARD:MISSING_REQUIRED_FIELDS

#### 5.14.4.2 otherwise

##### 5.14.4.2.1 logger

Attribute	Value
level	DEBUG
message	Required fields present, proceeding with validation

#### 5.14.5 choice

##### 5.14.5.1 when

Attribute	Value
expression	#[trim(vars.validationMode as String) == 'local']

##### 5.14.5.1.1 set-variable

Attribute	Value
variableName	projectPath
value	#[vars.pathContent]

##### 5.14.5.1.2 set-variable

Attribute	Value
variableName	displayPath
value	#[vars.pathContent]

##### 5.14.5.1.3 choice

###### 5.14.5.1.3.1 when

Attribute	Value
expression	#[vars.customRulesContent != null]

###### 5.14.5.1.3.1.1 set-variable

Attribute	Value
variableName	tempWorkspaceDir
value	#[\${muleguard.workspace.dir} ++ '/' ++ uuid()]

#### 5.14.5.1.3.1.2 file:create-directory

Attribute	Value
directoryPath	#[vars.tempWorkspaceDir]
config-ref	File_Config

#### 5.14.5.1.3.1.3 file:write

Attribute	Value
mode	OVERWRITE
path	#[vars.tempWorkspaceDir ++ '/rules.yaml']
config-ref	File_Config

#### 5.14.5.1.3.1.3.1 file:content

Attribute	Value
<![CDATA[...]]>	#[vars.customRulesContent]

#### 5.14.5.1.3.1.4 set-variable

Attribute	Value
variableName	customRulesPath
value	#[vars.tempWorkspaceDir ++ '/rules.yaml']

#### 5.14.5.1.3.2 otherwise

##### 5.14.5.1.3.2.1 set-variable

Attribute	Value
variableName	customRulesPath
value	#[null]

#### 5.14.5.2 when

Attribute	Value
expression	#[trim(vars.validationMode as String) == 'zip']

#### 5.14.5.2.1 choice

##### 5.14.5.2.1.1 when

Attribute	Value
expression	#![vars.isMultipart and vars.zipFileContent != null]

#### 5.14.5.2.1.1.1 set-variable

Attribute	Value
variableName	workingDir
value	#[\${muleguard.work.dir}' ++ '/' ++ vars.userSessionId]

#### 5.14.5.2.1.1.2 file:create-directory

Attribute	Value
directoryPath	#[vars.workingDir]
config-ref	File_Config

#### 5.14.5.2.1.1.3 set-variable

Attribute	Value
variableName	zipFilePath
value	#[vars.workingDir ++ '/input.zip']

#### 5.14.5.2.1.1.4 file:write

Attribute	Value
path	#[vars.zipFilePath]
config-ref	File_Config

#### 5.14.5.2.1.1.4.1 file:content

Attribute	Value
<![CDATA[#...]]>	#[vars.zipFileContent]

#### 5.14.5.2.1.1.5 file:read

Attribute	Value
path	#[vars.zipFilePath]
target	savedZipContent

#### 5.14.5.2.1.1.6 java:invoke-static

Attribute	Value
method	extractZip(java.io.InputStream, String)
class	com.raks.muleguard.wrapper.ZipExtractor

#### 5.14.5.2.1.1.6.1 java:args

Attribute	Value
<![CDATA[#[...]]>	#{{ arg0: vars.savedZipContent, arg1: vars.workingDir ++ '/extracted' }}

#### 5.14.5.2.1.1.7 set-variable

Attribute	Value
variableName	extractedPath
value	#[payload]

#### 5.14.5.2.1.1.8 set-variable

Attribute	Value
variableName	projectPath
value	#[vars.extractedPath]

#### 5.14.5.2.1.1.9 set-variable

Attribute	Value
variableName	displayPath
value	#[vars.zipFilename]

#### 5.14.5.2.1.1.10 logger

Attribute	Value
level	INFO
message	#[ZIP extracted to: ' ++ vars.projectPath]

#### 5.14.5.2.1.1.11 choice

##### 5.14.5.2.1.1.11.1 when

Attribute	Value
expression	#[vars.customRulesContent != null]

##### 5.14.5.2.1.1.11.2 otherwise

#### 5.14.5.2.1.2 otherwise

##### 5.14.5.2.1.2.1 logger

Attribute	Value
level	ERROR
message	ZIP mode requires multipart/form-data with a ZIP file

#### 5.14.5.2.1.2.2 raise-error

Attribute	Value
description	ZIP upload mode requires multipart/form-data content type with a ZIP file
type	MULEGUARD:ZIP_REQUIRES_MULTIPART

#### 5.14.5.3 otherwise

##### 5.14.5.3.1 logger

Attribute	Value
level	ERROR
message	#['Invalid validation mode: ' ++ vars.validationMode]

##### 5.14.5.3.2 raise-error

Attribute	Value
description	#['Invalid validation mode: ' ++ vars.validationMode ++ '. Must be local or zip']
type	MULEGUARD:INVALID_MODE

#### 5.14.6 choice

##### 5.14.6.1 when

Attribute	Value
expression	#['\${report.timestamp.enabled}' == 'true']

##### 5.14.6.1.1 set-variable

Attribute	Value
variableName	reportTimestamp
value	#[now() as String {format: '\${report.timestamp.format}'}]

##### 5.14.6.1.2 set-variable

Attribute	Value
variableName	reportDirName
value	#['muleguard-reports-' ++ vars.reportTimestamp]

##### 5.14.6.2 otherwise

##### 5.14.6.2.1 set-variable

Attribute	Value
variableName	reportDirName
value	muleguard-reports

#### 5.14.7 java:invoke-static

Attribute	Value
method	validate(String, String, String, String)
class	com.raks.muleguard.wrapper.MuleGuardInvoker

##### 5.14.7.1 java:args

Attribute	Value
<![CDATA[#[...]]>	#{           arg0: vars.projectPath,           arg1: vars.customRulesPath,           arg2: vars.displayPath,           arg3: vars.reportDirName         }]

#### 5.14.8 set-variable

Attribute	Value
variableName	validationResults
value	#[payload]

#### 5.14.9 set-variable

Attribute	Value
variableName	reportPath
value	#[vars.projectPath ++ '/' ++ vars.reportDirName ++ '/CONSOLIDATED-REPORT.html']

#### 5.14.10 set-variable

Attribute	Value
variableName	reportsFolderPath
value	#[vars.projectPath ++ '/' ++ vars.reportDirName]

#### 5.14.11 choice

##### 5.14.11.1 when

Attribute	Value
expression	#[vars.validationMode == 'zip' and vars.zipWorkspace != null]

##### 5.14.11.1.1 set-variable

Attribute	Value
variableName	zipFilePath
value	#[vars.zipWorkspace ++ '/input.zip']

#### 5.14.11.2 otherwise

##### 5.14.11.2.1 logger

Attribute	Value
level	DEBUG
message	Not using zip mode or zip workspace not set, skipping input zip path assignment

#### 5.14.12 logger

Attribute	Value
level	INFO
message	#['DEBUG: Attachment Prefs - Report: ' ++ (vars.userWantsReportAttachment default 'null') ++ ', Input: ' ++ (vars.userWantsInputAttachment default 'null') ++ ', Project: ' ++ (vars.userWantsProjectAttachment default 'null')]']

#### 5.14.13 os:store

Attribute	Value
objectStore	Report_Path_Store
key	#[vars.userSessionId]

##### 5.14.13.1 os:value

Attribute	Value
<![CDATA[#...]]>	#[vars.projectPath ++ '  ' ++ vars.reportDirName]

#### 5.14.14 async

##### 5.14.14.1 flow-ref

Attribute	Value
name	send-usage-notification-flow

#### 5.14.15 ee:transform

##### 5.14.15.1 ee:message

###### 5.14.15.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	<pre>%dw 2.0 output application/json indent=false --- {     status: "success",     sessionId: vars.validationSessionId default vars.userSessionId,     mode: vars.validationMode,     reportsPath: vars.projectPath ++ "/" ++ vars.reportDirName,     customRules: vars.customRulesPath != null,     baseUrl: vars.baseUrl }</pre>

## 5.14.16 error-handler

### 5.14.16.1 on-error-propagate

Attribute	Value
type	MULEGUARD:UNSUPPORTED_CONTENT_TYPE

#### 5.14.16.1.1 ee:transform

##### 5.14.16.1.1.1 ee:message

###### 5.14.16.1.1.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	<pre>%dw 2.0 output application/json indent=false --- {status: "error", message: "Unsupported content type. Use multipart/form-data or application/json"}</pre>

### 5.14.16.2 on-error-propagate

Attribute	Value
type	ANY

#### 5.14.16.2.1 logger

Attribute	Value
level	ERROR
message	#[Validation flow error: ' ++ error.description]

#### 5.14.16.2.2 ee:transform

##### 5.14.16.2.2.1 ee:message

###### 5.14.16.2.2.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	%dw 2.0 output application/json indent=false --- {status: "error", message: error.description default "An error occurred during validation"}

## 5.15. send-usage-notification-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 69

### 5.15.1 os:retrieve

Attribute	Value
objectStore	User_Session_Store
key	#vars.userSessionId

#### 5.15.1.1 os:default-value

Attribute	Value
<![CDATA[#[...]]>	{           name: 'Anonymous User',           email: 'unknown@unknown.com',           company: 'N/A',           ipAddress: 'N/A',           userAgent: 'N/A',           startTime: now(),           validationRun: false         }

### 5.15.2 set-variable

Attribute	Value
variableName	sessionData
value	#payload

### 5.15.3 set-variable

Attribute	Value
variableName	shouldAttachReports
value	#[ \${notification.attach.reports.enabled} == 'true' and           ((vars.userWantsReportAttachment default '\${notification.attach.reports.default}') == 'true') ]

### 5.15.4 set-variable

Attribute	Value
variableName	shouldAttachInput
value	#[ \${notification.attach.zipproject.enabled} == 'true' and vars.validationMode == 'zip' and ((vars. userWantsInputAttachment default \${notification.attach.zipproject.default}) == 'true') ]

### 5.15.5 set-variable

Attribute	Value
variableName	shouldAttachProject
value	#[ \${notification.attach.localproject.enabled} == 'true' and vars.validationMode == 'local' and ((vars. userWantsProjectAttachment default \${notification.attach.localproject.default}) == 'true') ]

### 5.15.6 logger

Attribute	Value
level	INFO
message	#['DEBUG: Attach Decision - Reports: ' ++ vars.shouldAttachReports ++ ', Input: ' ++ vars.shouldAttachInput ++ ' (Path: ' ++ (vars.zipFilePath default 'None') ++ '),' Project: ' ++ vars.shouldAttachProject]

### 5.15.7 set-variable

Attribute	Value
variableName	emailAttachments
value	#{{ 'logo.png': readUrl('classpath://web/logo.png', 'application/octet-stream') }}

### 5.15.8 set-variable

Attribute	Value
variableName	totalAttachmentSize
value	#[0]

### 5.15.9 set-variable

Attribute	Value
variableName	tempAttachments
value	#[]

### 5.15.10 logger

Attribute	Value
level	INFO
message	Reports available at web interface (compression skipped)

### 5.15.11 set-variable

Attribute	Value
variableName	reportsZipPath
value	#[vars.validationResults.reportsPath ++ '.zip']

### 5.15.12 java:invoke-static

Attribute	Value
doc:name	Zip Reports
method	zipDirectory(java.lang.String,java.lang.String)
class	com.raks.muleguard.wrapper.ZipExtractor
target	zipResult

#### 5.15.12.1 java:args

Attribute	Value
<![CDATA[#[...]]>	{       arg0: vars.validationResults.reportsPath,       arg1: vars.reportsZipPath     }

### 5.15.13 choice

#### 5.15.13.1 when

Attribute	Value
expression	#[vars.shouldAttachReports]

#### 5.15.13.1.1 try

##### 5.15.13.1.1.1 file:read

Attribute	Value
path	#[vars.reportsZipPath]
target	reportsZipContent

##### 5.15.13.1.1.2 set-variable

Attribute	Value
variableName	reportsZipSize
value	#[\$output application/java --- sizeOf(vars.reportsZipContent)]

#### 5.15.13.1.1.3 set-variable

Attribute	Value
variableName	totalAttachmentSize
value	#[\$output application/java --- vars.totalAttachmentSize + vars.reportsZipSize]

#### 5.15.13.1.1.4 set-variable

Attribute	Value
variableName	emailAttachments
value	#[\$output application/java --- vars.emailAttachments ++ { (vars.reportDirName ++ '.zip'): vars.reportsZipContent }]

#### 5.15.13.1.1.5 logger

Attribute	Value
level	INFO
message	#[Attached reports ZIP (' ++ vars.reportsZipSize ++ ' bytes)]

#### 5.15.13.1.1.6 error-handler

##### 5.15.13.1.1.6.1 on-error-continue

###### 5.15.13.1.1.6.1.1 logger

Attribute	Value
level	WARN
message	#[Failed to attach reports ZIP: ' ++ error.description]

#### 5.15.13.2 otherwise

##### 5.15.13.2.1 logger

Attribute	Value
level	DEBUG
message	Report attachment not requested or disabled, skipping attachment

#### 5.15.14 choice

##### 5.15.14.1 when

Attribute	Value
expression	#![vars.shouldAttachInput and vars.zipFilePath != null]

#### 5.15.14.1.1 try

##### 5.15.14.1.1.1 file:read

Attribute	Value
path	#![vars.zipFilePath]
target	inputZipContent

##### 5.15.14.1.1.2 set-variable

Attribute	Value
variableName	inputZipSize
value	#![output application/java --- sizeOf(vars.inputZipContent)]

##### 5.15.14.1.1.3 set-variable

Attribute	Value
variableName	totalAttachmentSize
value	#![output application/java --- vars.totalAttachmentSize + vars.inputZipSize]

##### 5.15.14.1.1.4 set-variable

Attribute	Value
variableName	emailAttachments
value	#![output application/java --- vars.emailAttachments ++ { 'input-project. zip': vars.inputZipContent }]

##### 5.15.14.1.1.5 logger

Attribute	Value
level	INFO
message	#![Attached input ZIP (' ++ vars.inputZipSize ++ ' bytes) ]

##### 5.15.14.1.1.6 error-handler

###### 5.15.14.1.1.6.1 on-error-continue

###### 5.15.14.1.1.6.1.1 logger

Attribute	Value
level	WARN
message	#['Failed to attach input ZIP: ' ++ error.description]

#### 5.15.14.2 otherwise

##### 5.15.14.2.1 logger

Attribute	Value
level	DEBUG
message	Input ZIP attachment not requested or disabled, skipping attachment

#### 5.15.15 choice

##### 5.15.15.1 when

Attribute	Value
expression	#[vars.totalAttachmentSize < ('\${notification.max.attachment.size.mb}' as Number * 1048576)]

##### 5.15.15.1.1 logger

Attribute	Value
level	INFO
message	#['Attaching ' ++ sizeOf(vars.emailAttachments) ++ ' file(s) (total: ' ++ vars.totalAttachmentSize ++ ' bytes)']

##### 5.15.15.2 otherwise

##### 5.15.15.2.1 set-variable

Attribute	Value
variableName	emailAttachments
value	#[{}]

##### 5.15.15.2.2 logger

Attribute	Value
level	WARN
message	#['Total attachments exceed size limit (' ++ vars.totalAttachmentSize ++ ' bytes), skipping all attachments']

#### 5.15.16 ee:transform

##### 5.15.16.1 ee:message

##### 5.15.16.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	<pre>%dw 2.0 output text/plain --- "&lt;html&gt; &lt;head&gt; &lt;style&gt;     body { font-family: Arial, sans-serif; margin: 0; padding: 0; background: #f5f5f5; }     .container { max-width: 700px; margin: 20px auto; background: white; }     .header { background: #663399; color: white; padding: 25px; text-align: center; }     .section { margin: 0; padding: 20px; border-bottom: 1px solid #e0e0e0; }     .label { font-weight: bold; color: #663399; width: 180px; display: inline-block; }     table { border-collapse: collapse; width: 100%; margin-top: 10px; }     td { padding: 10px 5px; border-bottom: 1px solid #f0f0f0; }     .highlight { background: #f9f4ff; padding: 15px; border-radius: 5px; margin: 10px 0; }     .link { color: #0078d4; text-decoration: none; font-weight: bold; }     .footer { background: #f9f9f9; padding: 15px; text-align: center; font-size: 12px; color: #666; }     .stats-grid { display: table; width: 100%; margin-top: 15px; }     .stat-box { display: table-cell; padding: 15px; text-align: center; border-right: 1px solid #e0e0e0; }     .stat-box:last-child { border-right: none; }     .stat-number { font-size: 24px; font-weight: bold; color: #663399; display: block; }     .stat-label { font-size: 12px; color: #666; margin-top: 5px; } &lt;/style&gt; &lt;/head&gt; &lt;body&gt; &lt;div class='container'&gt; &lt;div class='header'&gt; &lt;img src='cid:logo.png' alt='MuleGuard' style='height: 50px; display: block; margin: 0 auto 10px auto;'/&gt; &lt;h2 style='margin: 0;'&gt;? MuleGuard Validation Report&lt;/h2&gt; &lt;/div&gt;  &lt;div class='section'&gt; &lt;h3 style='color: #663399; margin-top: 0;'&gt;? User Information&lt;/h3&gt; &lt;table&gt; &lt;tr&gt;&lt;td class='label'&gt;Name:&lt;/td&gt;&lt;td&gt;" ++ vars.sessionData.name ++ "&lt;/td&gt;&lt;/tr&gt; &lt;tr&gt;&lt;td class='label'&gt;Email:&lt;/td&gt;&lt;td&gt;" ++ vars.sessionData.email ++ "&lt;/td&gt;&lt;/tr&gt; &lt;tr&gt;&lt;td class='label'&gt;Company:&lt;/td&gt;&lt;td&gt;" ++ vars.sessionD... [TRUNCATED]</pre>

## 5.15.17 choice

### 5.15.17.1 when

Attribute	Value
expression	#[sizeOf(vars.emailAttachments) > 0]

### 5.15.17.1.1 email:send

Attribute	Value
config-ref	Email_SMTP
subject	#['\${notification.email.subject}' replace '{name}' with vars.sessionData.name replace '{emailId}' with vars.sessionData.email]
ccAddresses	#['\${notification.email.to}' splitBy ',']
fromAddress	\${notification.email.from}
toAddresses	#[(vars.sessionData.email default '\${notification.email.to}') splitBy ',']

### 5.15.17.1.1.1 email:body

Attribute	Value
contentType	text/html

### 5.15.17.1.1.1.1 email:content

Attribute	Value
<![CDATA[#[...]]>	#[payload]

### 5.15.17.1.1.2 email:attachments

Attribute	Value
<![CDATA[#[...]]>	#[vars.emailAttachments]

### 5.15.17.2 otherwise

#### 5.15.17.2.1 email:send

Attribute	Value
config-ref	Email_SMTP
subject	#['\${notification.email.subject}' replace '{name}' with vars.sessionData.name replace '{emailId}' with vars.sessionData.email]
ccAddresses	#['\${notification.email.to}' splitBy ',']
fromAddress	\${notification.email.from}
toAddresses	#[(vars.sessionData.email default '\${notification.email.to}') splitBy ',']

#### 5.15.17.2.1.1 email:body

Attribute	Value
contentType	text/html

#### 5.15.17.2.1.1.1 email:content

Attribute	Value
<![CDATA[#[...]]>	#[payload]

## 5.15.18 logger

Attribute	Value
level	INFO
message	Usage notification email sent successfully

## 5.15.19 try

### 5.15.19.1 file:delete

Attribute	Value
path	#[vars.reportsZipPath]
config-ref	File_Config

### 5.15.19.2 logger

Attribute	Value
level	DEBUG
message	Temporary reports ZIP deleted

### 5.15.19.3 error-handler

#### 5.15.19.3.1 on-error-continue

##### 5.15.19.3.1.1 logger

Attribute	Value
level	DEBUG
message	Reports ZIP cleanup skipped (not found)

## 5.15.20 error-handler

#### 5.15.20.1 on-error-continue

##### 5.15.20.1.1 logger

Attribute	Value
level	ERROR
message	Failed to send usage notification email

## 5.16. serve-report-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 18

### 5.16.1 http:listener

Attribute	Value
path	/muleguard/reports/*
config-ref	HTTP_Listener_config
allowedMethods	GET

### 5.16.2 set-variable

Attribute	Value
variableName	pathParts
value	#[\$attributes.requestPath splitBy '/' filter (\$ != '')]

### 5.16.3 set-variable

Attribute	Value
variableName	sessionId
value	#[\$vars.pathParts[2]]

### 5.16.4 set-variable

Attribute	Value
variableName	requestedPath
value	#[\$vars.pathParts[3 to -1] joinBy '/']

### 5.16.5 logger

Attribute	Value
level	INFO
message	#[`Serving report - sessionId: ' ++ vars.sessionId ++ ', file: ' ++ vars.requestedPath]`

### 5.16.6 os:retrieve

Attribute	Value
objectStore	Report_Path_Store
key	#[\$vars.sessionId]
target	reportPathString

### 5.16.7 set-variable

Attribute	Value
variableName	pathParts
value	#[vars.reportPathString splitBy '  ']

## 5.16.8 set-variable

Attribute	Value
variableName	fullPath
value	#[vars.pathParts[0] ++ '/' ++ vars.pathParts[1] ++ '/' ++ vars.requestedPath]

## 5.16.9 logger

Attribute	Value
level	INFO
message	#['Serving report file: ' ++ vars.fullPath]

## 5.16.10 set-variable

Attribute	Value
variableName	contentType
value	#[ if (vars.requestedPath endsWith '.html') 'text/html; charset=UTF-8' else if (vars.requestedPath endsWith '.css') 'text/css; charset=UTF-8' else if (vars.requestedPath endsWith '.js') 'application/javascript; charset=UTF-8' else if (vars.requestedPath endsWith '.png') 'image/png' else if ((vars. requestedPath endsWith '.jpg') or (vars.requestedPath endsWith '.jpeg')) 'image/jpeg' else if (vars.requestedPath endsWith '.svg') 'image/svg+xml' else if (vars.requestedPath endsWith '.gif') 'image/gif' else if (vars. requestedPath endsWith '.json') 'application/json' else 'application/octet- stream' ]

## 5.16.11 file:read

Attribute	Value
path	#[vars.fullPath]
outputMimeType	#[vars.contentType]
config-ref	File_Config

## 5.16.12 error-handler

### 5.16.12.1 on-error-propagate

Attribute	Value
type	FILE:FILE_NOT_FOUND

#### 5.16.12.1.1 logger

Attribute	Value
level	WARN
message	#['Report file not found: ' ++ vars.fullPath]

#### 5.16.12.1.2 set-payload

Attribute	Value
contentType	application/json
value	{"error": "Report file not found"}

#### 5.16.12.2 on-error-propagate

Attribute	Value
type	ANY

#### 5.16.12.2.1 logger

Attribute	Value
level	ERROR
message	#['Error serving report: ' ++ error.description]

#### 5.16.12.2.2 set-payload

Attribute	Value
contentType	application/json
value	{"error": "Error serving report"}

### 5.17. cleanup-workspace-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 31

#### 5.17.1 scheduler

##### 5.17.1.1 scheduling-strategy

###### 5.17.1.1.1 cron

Attribute	Value
expression	#{workspace.cleanup.schedule}

#### 5.17.2 logger

Attribute	Value
level	INFO
message	Starting workspace cleanup...

### 5.17.3 choice

#### 5.17.3.1 when

Attribute	Value
expression	#['\${workspace.cleanup.enabled}' == 'true']

#### 5.17.3.1.1 set-variable

Attribute	Value
variableName	workspaceDir
value	#[mule.home ++ '/apps/muleguardwrapper/workspace']

#### 5.17.3.1.2 set-variable

Attribute	Value
variableName	retentionDays
value	#['\${workspace.cleanup.retention.days}' as Number]

#### 5.17.3.1.3 set-variable

Attribute	Value
variableName	retentionHours
value	#[vars.retentionDays * 24]

#### 5.17.3.1.4 set-variable

Attribute	Value
variableName	cutoffTime
value	#[now() - (vars.retentionHours as Number) *  PT1H ]

#### 5.17.3.1.5 logger

Attribute	Value
level	INFO
message	#['Cleaning up workspace directories older than ' ++ vars.retentionDays ++ ' days']

#### 5.17.3.1.6 file:list

Attribute	Value
directoryPath	#[vars.workspaceDir]
config-ref	File_Config

### 5.17.3.1.7 foreach

#### 5.17.3.1.7.1 set-variable

Attribute	Value
variableName	dirPath
value	#[vars.workspaceDir ++ '/' ++ payload.attributes.fileName]

#### 5.17.3.1.7.2 set-variable

Attribute	Value
variableName	dirModified
value	#[payload.attributes.lastModifiedTime]

### 5.17.3.1.7.3 choice

#### 5.17.3.1.7.3.1 when

Attribute	Value
expression	#[vars.dirModified < vars.cutoffTime]

#### 5.17.3.1.7.3.1.1 logger

Attribute	Value
level	INFO
message	#['Deleting old workspace: ' ++ payload.attributes.fileName]

#### 5.17.3.1.7.3.1.2 try

#### 5.17.3.1.7.3.2 otherwise

#### 5.17.3.1.7.3.2.1 logger

Attribute	Value
level	DEBUG
message	#['Workspace directory is recent: ' ++ payload.attributes.fileName ++ ', skipping cleanup']

### 5.17.3.1.8 logger

Attribute	Value
level	INFO
message	Workspace cleanup completed

### 5.17.3.2 otherwise

#### 5.17.3.2.1 logger

Attribute	Value
level	INFO
message	Workspace cleanup is disabled

### 5.17.4 error-handler

#### 5.17.4.1 on-error-continue

##### 5.17.4.1.1 logger

Attribute	Value
level	ERROR
message	#['Workspace cleanup failed: ' ++ error.description]

## 5.18. send-registration-notification-flow

Path: src\main\mule\muleguard-wrapper.xml

Type: flow

Components: 16

### 5.18.1 choice

#### 5.18.1.1 when

Attribute	Value
expression	#"\${notification.registration.email.enabled}" == 'true'

##### 5.18.1.1.1 logger

Attribute	Value
level	INFO
message	Sending registration notification email...

##### 5.18.1.1.2 set-variable

Attribute	Value
variableName	registrationEmailAttachments
value	#{{ 'logo.png': readUrl('classpath://web/logo.png', 'application/octet-stream') }}

### 5.18.1.1.3 ee:transform

#### 5.18.1.1.3.1 ee:message

##### 5.18.1.1.3.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	<pre>%dw 2.0 output text/plain  --- "&lt;html&gt; &lt;head&gt; &lt;style&gt;     body { font-family: Arial, sans-serif; margin: 0; padding: 0; background: #f5f5f5; } .container { max-width: 600px; margin: 20px auto; background: white; border-radius: 8px; overflow: hidden; box-shadow: 0 4px 6px rgba(0,0,0,0.1); } .header { background: #663399; color: white; padding: 25px; text-align: center; } .section { padding: 25px; border-bottom: 1px solid #e0e0e0; } .label { font-weight: bold; color: #663399; width: 140px; display: inline-block; } table { border-collapse: collapse; width: 100%; } td { padding: 12px 5px; border-bottom: 1px solid #f0f0f0; } tr:last-child td { border-bottom: none; } .footer { background: #f9f9f9; padding: 15px; text-align: center; font-size: 12px; color: #666; } &lt;/style&gt; &lt;/head&gt; &lt;body&gt; &lt;div class='container'&gt; &lt;div class='header'&gt; &lt;img src='cid:logo.png' alt='MuleGuard' style='height: 50px; display: block; margin: 0 auto 10px auto;'/&gt; &lt;h2 style='margin: 0;'&gt;New User Registration&lt;/h2&gt; &lt;/div&gt;  &lt;div class='section'&gt; &lt;p&gt;A new user has registered to use the MuleGuard application.&lt;/p&gt; &lt;table&gt; &lt;tr&gt;&lt;td class='label'&gt;Name:&lt;/td&gt;&lt;td&gt;" ++ vars.userName ++ "&lt;/td&gt;&lt;/tr&gt; &lt;tr&gt;&lt;td class='label'&gt;Email:&lt;/td&gt;&lt;td&gt;" ++ vars.userEmail ++ "&lt;/td&gt;&lt;/tr&gt; &lt;tr&gt;&lt;td class='label'&gt;Company:&lt;/td&gt;&lt;td&gt;" ++ vars.userCompany ++ "&lt;/td&gt;&lt;/tr&gt; &lt;tr&gt;&lt;td class='label'&gt;IP Address:&lt;/td&gt;&lt;td&gt;" ++ vars.userIpAddress ++ "&lt;/td&gt;&lt;/tr&gt; &lt;tr&gt;&lt;td class='label'&gt;Session Start:&lt;/td&gt;&lt;td&gt;" ++ vars.sessionStartTime ++ "&lt;/td&gt;&lt;/tr&gt; &lt;/table&gt; &lt;/div&gt;  &lt;div class='footer'&gt; &lt;p style='margin: 0;'&gt;MuleGuard Notification System&lt;/p&gt; &lt;/div&gt; &lt;/body&gt; &lt;/html&gt;"</pre>

#### 5.18.1.1.4 email:send

Attribute	Value
config-ref	Email_SMTP
subject	#['MuleGuard Tool Registered by ' ++ vars.userName ++ ':' ++ vars.userEmail ++ (if (vars.userCompany != null and vars.userCompany != 'N/A' and vars.userCompany != "") ' - ' ++ vars.userCompany else ")]
fromAddress	\${notification.email.from}
toAddresses	#[\$(notification.email.to) splitBy ',']

#### 5.18.1.1.4.1 email:body

Attribute	Value
contentType	text/html

#### 5.18.1.1.4.2 email:attachments

Attribute	Value
<![CDATA[# [...]]]>	#[vars.registrationEmailAttachments]

#### 5.18.1.1.5 logger

Attribute	Value
level	INFO
message	Registration notification sent.

#### 5.18.1.2 otherwise

##### 5.18.1.2.1 logger

Attribute	Value
level	DEBUG
message	Registration email disabled.

#### 5.18.2 error-handler

##### 5.18.2.1 on-error-continue

###### 5.18.2.1.1 logger

Attribute	Value
level	WARN
message	#['Failed to send registration email: ' ++ error.description]

#### 5.19. raksanalyzer-root-flow

Path: src\main\mule\raksanalyzer-wrapper.xml

Type: flow

Components: 19

## 5.19.1 http:listener

Attribute	Value
path	/raksanalyzer
config-ref	HTTP_Listener_config
allowedMethods	GET

## 5.19.2 set-variable

Attribute	Value
variableName	sessionId
value	#@[attributes.queryParams.session]

## 5.19.3 choice

### 5.19.3.1 when

Attribute	Value
expression	#@[vars.sessionId != null]

#### 5.19.3.1.1 logger

Attribute	Value
level	INFO
message	#['Existing session detected: ' ++ vars.sessionId]

#### 5.19.3.1.2 os:contains

Attribute	Value
objectStore	User_Session_Store
key	#@[vars.sessionId]
target	sessionExists

#### 5.19.3.1.3 choice

##### 5.19.3.1.3.1 when

Attribute	Value
expression	#![vars.sessionExists]

###### 5.19.3.1.3.1.1 logger

Attribute	Value
level	WARN
message	Session ID provided but not found in store. Creating new anonymous session.

#### 5.19.3.1.3.1.2 flow-ref

Attribute	Value
name	raks-create-anonymous-session-subflow

#### 5.19.3.1.3.2 otherwise

##### 5.19.3.1.3.2.1 logger

Attribute	Value
level	DEBUG
message	Session valid.

#### 5.19.3.2 otherwise

##### 5.19.3.2.1 logger

Attribute	Value
level	INFO
message	No session provided. Creating anonymous session.

#### 5.19.3.2.2 flow-ref

Attribute	Value
name	raks-create-anonymous-session-subflow

#### 5.19.4 async

##### 5.19.4.1 flow-ref

Attribute	Value
name	raks-send-launch-notification-flow

#### 5.19.5 set-variable

Attribute	Value
variableName	redirectLocation
value	#['/apiGuard/raksAnalyzer/index.html?session=' ++ vars.sessionId]

#### 5.19.6 set-payload

Attribute	Value
mimeType	text/html
value	#[ '<html><head><meta http-equiv="refresh" content="0;url=' ++ vars.redirectLocation ++ '"></head><body>Redirecting...</body></html>' ]

## 5.20. raks-send-launch-notification-flow

Path: src\main\mule\raksanalyzer-wrapper.xml

Type: flow

Components: 8

### 5.20.1 os:retrieve

Attribute	Value
objectStore	User_Session_Store
key	#[\$vars.sessionId]
target	sessionData

#### 5.20.1.1 os:default-value

Attribute	Value
<![CDATA[#[...]]>	{ name: 'Unknown', email: '\${notification.email.to}', company: 'N/A' }

### 5.20.2 email:send

Attribute	Value
config-ref	Email_SMTP
subject	#[ \${notification.email.subject} replace '{name}' with vars.sessionData.name replace '{emailld}' with vars.sessionData.email ++ ' - Launched RaksAnalyzer' ]
fromAddress	#{notification.email.from}
toAddresses	#[ \${notification.email.to} ]

#### 5.20.2.1 email:body

Attribute	Value
contentType	text/html

#### 5.20.2.1.1 email:content

Attribute	Value
<![CDATA[#[...]]>	output text/plain --- "User " ++ vars.sessionData.name ++ " (" ++ vars.sessionData.email ++ ") from " ++ vars.sessionData.company ++ " launched RaksAnalyzer."

### 5.20.3 error-handler

#### 5.20.3.1 on-error-continue

##### 5.20.3.1.1 logger

Attribute	Value
level	WARN
message	Failed to send launch notification

### 5.21. raksanalyzer-ui-flow

Path: src\main\mule\raksanalyzer-wrapper.xml

Type: flow

Components: 17

#### 5.21.1 http:listener

Attribute	Value
doc:name	Listener
path	/raksanalyzer/*
doc:id	raks-listener-id
config-ref	HTTP_Listener_config

##### 5.21.1.1 http:response

###### 5.21.1.1.1 http:headers

Attribute	Value
<![CDATA[#[...]]>	<pre>{     "Content-Type": vars.mimeType default "text/html",     "Cache-Control": "public, max-age=3600" }</pre>

### 5.21.2 set-variable

Attribute	Value
doc:name	Extract Path
variableName	resourcePath
value	#[\$attributes.relativePath replace '/raksanalyzer/' with ""]

### 5.21.3 set-variable

Attribute	Value
variableName	MimeType
value	#[ if (vars.resourcePath endsWith '.css') 'text/css' else if (vars.resourcePath endsWith '.js') 'application/javascript' else if (vars.resourcePath endsWith '.png') 'image/png' else if (vars.resourcePath endsWith '.svg') 'image/svg+xml' else if (vars.resourcePath endsWith '.jpg') 'image/jpeg' else 'text/html' ]

### 5.21.4 choice

Attribute	Value
doc:name	Route UI vs API

#### 5.21.4.1 when

Attribute	Value
expression	#[\$vars.resourcePath == "" or vars.resourcePath == 'index' or vars.resourcePath == 'index.html']

##### 5.21.4.1.1 file:read

Attribute	Value
doc:name	Read Raks Index
path	\${raksanalyzer.web.dir}/index.html
config-ref	File_Config

#### 5.21.4.2 when

Attribute	Value
expression	#[\$vars.resourcePath == 'guide' or vars.resourcePath == 'guide.html']

##### 5.21.4.2.1 file:read

Attribute	Value
doc:name	Read Raks Guide
path	\${raksanalyzer.web.dir}/guide.html
config-ref	File_Config

#### 5.21.4.3 when

Attribute	Value
expression	#[vars.resourcePath startsWith 'api/samples']

#### 5.21.4.3.1 set-variable

Attribute	Value
variableName	fileName
value	#[vars.resourcePath replace 'api/samples/' with ""]

#### 5.21.4.3.2 http:request

Attribute	Value
doc:name	Proxy to resource or simple read
path	/assets/raksanalyzer/samples/{fileName}
method	GET
config-ref	Self_HTTP_Request_Config

#### 5.21.4.3.2.1 http:uri-params

Attribute	Value
<![CDATA[# [...]]]>	{ fileName: vars.fileName }

#### 5.21.4.4 otherwise

##### 5.21.4.4.1 logger

Attribute	Value
level	INFO
message	#['Reading static asset: ' ++ vars.resourcePath ++ ' from ' ++ p('raksanalyzer.web.dir') ++ '/' ++ vars.resourcePath]

#### 5.21.4.4.2 file:read

Attribute	Value
doc:name	Read Asset
path	#[p('raksanalyzer.web.dir') ++ '/' ++ vars.resourcePath]
config-ref	File_Config

### 5.22. raksanalyzer-api-flow

Path: src\main\mule\raksanalyzer-wrapper.xml

Type: flow

Components: 32

#### 5.22.1 http:listener

Attribute	Value
doc:name	Listener
path	/raksanalyzer/api/*
config-ref	HTTP_Listener_config
allowedMethods	GET, POST

### 5.22.1.1 http:response

Attribute	Value
statusCode	#[vars.httpStatus default 200]

### 5.22.1.1.1 http:headers

Attribute	Value
<![CDATA[#[...]]>	{"Content-Type": "application/json"}

## 5.22.2 set-variable

Attribute	Value
variableName	apiPath
value	#[attributes.relativePath replace '/raksanalyzer/api/' with '')

## 5.22.3 choice

### 5.22.3.1 when

Attribute	Value
expression	#[vars.apiPath startsWith 'upload/']

### 5.22.3.1.1 set-variable

Attribute	Value
variableName	uploadId
value	#[uuid()]

### 5.22.3.1.2 set-variable

Attribute	Value
variableName	workingDir
value	#[p('raksanalyzer.work.dir') ++ '/' ++ vars.uploadId]

### 5.22.3.1.3 file:create-directory

Attribute	Value
directoryPath	#[vars.workingDir]
config-ref	File_Config

#### 5.22.3.1.4 ee:transform

Attribute	Value
doc:name	Extract Multipart Data

#### 5.22.3.1.4.1 ee:message

#### 5.22.3.1.4.2 ee:variables

##### 5.22.3.1.4.2.1 ee:set-variable

Attribute	Value
variableName	inputPart
<![CDATA[#...]]>	%dw 2.0 output application/java --- payload.parts.file.content

##### 5.22.3.1.4.2.2 ee:set-variable

Attribute	Value
variableName	inputFilename
<![CDATA[#...]]>	%dw 2.0 output application/java --- payload.parts.file.headers['Content-Disposition'].filename

#### 5.22.3.1.5 file:write

Attribute	Value
path	#[vars.workingDir ++ '/' ++ vars.inputFilename]
config-ref	File_Config

##### 5.22.3.1.5.1 file:content

Attribute	Value
<![CDATA[#...]]>	#[vars.inputPart]

#### 5.22.3.1.6 set-payload

Attribute	Value
mimeType	application/json
value	#[\$output application/json --- { 'success': true, 'tempPath': (vars.workingDir ++ '/' ++ vars.inputFilename) replace '\\' with '/', 'uploadId': vars.uploadId }]

### 5.22.3.2 when

Attribute	Value
expression	#[vars.apiPath == 'analyze' and attributes.method == 'POST']

#### 5.22.3.2.1 java:invoke-static

Attribute	Value
doc:name	Invoke RaksAnalyzer
method	analyze(java.lang.String,java.lang.String,java.lang.String)
class	com.raks.muleguard.wrapper.RaksAnalyzerInvoker

##### 5.22.3.2.1.1 java:args

Attribute	Value
<![CDATA[#[...]]>	{       arg0: payload.inputPath,       arg1: payload.configFilePath,       arg2: "reports"     }

#### 5.22.3.2.2 ee:transform

Attribute	Value
doc:name	Transform Result

##### 5.22.3.2.2.1 ee:message

###### 5.22.3.2.2.1.1 ee:set-payload

Attribute	Value
<![CDATA[#[...]]>	%dw 2.0 output application/json --- payload

### 5.22.3.3 when

Attribute	Value
expression	#[vars.apiPath == 'config/framework']

#### 5.22.3.3.1 set-payload

Attribute	Value
mimeType	application/json
value	{"defaultProjectPath": "C:/raks/workspace"}

#### 5.22.3.4 when

Attribute	Value
expression	#[vars.apiPath == 'config/environments']

#### 5.22.3.4.1 set-payload

Attribute	Value
mimeType	application/json
value	[{"code": "DEV", "displayName": "Development"}, {"code": "QA", "displayName": "QA"}]

#### 5.22.3.5 when

Attribute	Value
expression	#[vars.apiPath == 'config/ui-labels']

#### 5.22.3.5.1 set-payload

Attribute	Value
mimeType	application/json
value	{"ui.app.title": "RaksAnalyzer"}

#### 5.22.3.6 otherwise

##### 5.22.3.6.1 set-payload

Attribute	Value
mimeType	application/json
value	{"status": "error", "message": "Endpoint not found"}

##### 5.22.3.6.2 set-variable

Attribute	Value
variableName	httpStatus
value	404

## 6. Mule Sub-Flows

**Total Sub-Flows: 2**

### 6.1. create-anonymous-session-subflow

Path: src\main\mule\muleguard-wrapper.xml

Type: sub-flow

Components: 5

#### 6.1.1 set-variable

Attribute	Value
variableName	sessionId
value	#[uuid()]

#### 6.1.2 set-variable

Attribute	Value
variableName	sessionStartTime
value	#[now()]

#### 6.1.3 os:store

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

#### 6.1.3.1 os:value

Attribute	Value
<![CDATA[#[...]]>	<pre>output application/java --- {     name: 'Anonymous User',     email: '\${notification.email.to}',     company: 'N/A',     ipAddress: attributes.headers['x-forwarded-for'] default attributes.     remoteAddress,     userAgent: attributes.headers['user-agent'],     startTime: vars.sessionStartTime,     validationRun: false }</pre>

#### 6.1.4 logger

Attribute	Value
level	INFO
message	#['Created anonymous session: ' ++ vars.sessionId]

### 6.2. raks-create-anonymous-session-subflow

Path: src\main\mule\raksanalyzer-wrapper.xml

Type: sub-flow

Components: 5

#### 6.2.1 set-variable

Attribute	Value
variableName	sessionId
value	#[uuid()]

#### 6.2.2 set-variable

Attribute	Value
variableName	sessionStartTime
value	#[now()]

#### 6.2.3 os:store

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

#### 6.2.3.1 os:value

<b>Attribute</b>	<b>Value</b>
<![CDATA[#[...]]>	<pre>output application/java --- {     name: 'Anonymous User',     email: '\${notification.email.to}',     company: 'N/A',     ipAddress: attributes.headers['x-forwarded-for'] default attributes.     remoteAddress,     userAgent: attributes.headers['user-agent'],     startTime: vars.sessionStartTime,     validationRun: false }</pre>

#### 6.2.4 logger

<b>Attribute</b>	<b>Value</b>
level	INFO
message	#['Created anonymous session: ' ++ vars.sessionId]

## 7. DataWeave Files

No DataWeave files found

## 8. Other Resources

<b>File Name</b>	<b>Relative Path</b>
exchange-docs\home.md	exchange-docs\home.md
lib\muleguard.jar	lib\muleguard.jar
lib\raksanalyzer.jar	lib\raksanalyzer.jar
reports\apiguardwrapper_20251225_205648.xlsx	reports\apiguardwrapper_20251225_205648.xlsx
reports\apiguardwrapper_20251225_210153.xlsx	reports\apiguardwrapper_20251225_210153.xlsx
reports\apiguardwrapper_20251225_210607.xlsx	reports\apiguardwrapper_20251225_210607.xlsx
reports\apiguardwrapper_20251225_210644.xlsx	reports\apiguardwrapper_20251225_210644.xlsx
reports\apiguardwrapper_20251225_210841.xlsx	reports\apiguardwrapper_20251225_210841.xlsx
reports\apiguardwrapper_Analysis_Document_202512-25_205648.docx	reports\apiguardwrapper_Analysis_Document_20251225_205648.docx
reports\apiguardwrapper_Analysis_Document_202512-25_205648.pdf	reports\apiguardwrapper_Analysis_Document_20251225_205648.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210153.docx	reports\apiguardwrapper_Analysis_Document_20251225_210153.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210153.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210153.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210607.docx	reports\apiguardwrapper_Analysis_Document_20251225_210607.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210607.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210607.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210644.docx	reports\apiguardwrapper_Analysis_Document_20251225_210644.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210644.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210644.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210841.docx	reports\apiguardwrapper_Analysis_Document_20251225_210841.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210841.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210841.pdf
src\main\java\com\raks\muleguard\wrapper\MuleGuardInvoker.java	src\main\java\com\raks\muleguard\wrapper\MuleGuardInvoker.java
src\main\java\com\raks\muleguard\wrapper\RaksAnalyzerInvoker.java	src\main\java\com\raks\muleguard\wrapper\RaksAnalyzerInvoker.java

<b>File Name</b>	<b>Relative Path</b>
src\main\java\com\raks\muleguard\wrapper\ZipExtractor.java	src\main\java\com\raks\muleguard\wrapper\ZipExtractor.java
src\main\mule\apiguard-common.xml	src\main\mule\apiguard-common.xml
src\main\mule\apiguard-portal.xml	src\main\mule\apiguard-portal.xml
src\main\mule\muleguard-wrapper.xml	src\main\mule\muleguard-wrapper.xml
src\main\mule\raksanalyzer-wrapper.xml	src\main\mule\raksanalyzer-wrapper.xml
src\main\resources\templates\index.template.html	src\main\resources\templates\index.template.html
src\main\resources\templates\registration-success.template.html	src\main\resources\templates\registration-success.template.html
src\main\resources\templates\registration.template.html	src\main\resources\templates\registration.template.html
src\main\resources\web\assets\css\raks-theme.css	src\main\resources\web\assets\css\raks-theme.css
src\main\resources\web\assets\images\logo.png	src\main\resources\web\assets\images\logo.png
src\main\resources\web\assets\images\logo.svg	src\main\resources\web\assets\images\logo.svg
src\main\resources\web\muleguard\checklist.html	src\main\resources\web\muleguard\checklist.html
src\main\resources\web\muleguard\help.html	src\main\resources\web\muleguard\help.html
src\main\resources\web\muleguard\index.html	src\main\resources\web\muleguard\index.html
src\main\resources\web\muleguard\logo.png	src\main\resources\web\muleguard\logo.png
src\main\resources\web\muleguard\logo.svg	src\main\resources\web\muleguard\logo.svg
src\main\resources\web\muleguard\muleapp1.zip	src\main\resources\web\muleguard\muleapp1.zip
src\main\resources\web\muleguard\rule_guide.html	src\main\resources\web\muleguard\rule_guide.html
src\main\resources\web\muleguard\sample-rules.yaml	src\main\resources\web\muleguard\sample-rules.yaml
src\main\resources\web\muleguard\welcome.html	src\main\resources\web\muleguard\welcome.html
src\main\resources\web\raksanalyzer\assets\css\raks-theme.css	src\main\resources\web\raksanalyzer\assets\css\raks-theme.css
src\main\resources\web\raksanalyzer\assets\images\logo.svg	src\main\resources\web\raksanalyzer\assets\images\logo.svg
src\main\resources\web\raksanalyzer\app.js	src\main\resources\web\raksanalyzer\app.js
src\main\resources\web\raksanalyzer\guide.html	src\main\resources\web\raksanalyzer\guide.html
src\main\resources\web\raksanalyzer\index.html	src\main\resources\web\raksanalyzer\index.html
src\main\resources\web\raksanalyzer\styles.css	src\main\resources\web\raksanalyzer\styles.css
src\main\resources\web\logo.png	src\main\resources\web\logo.png
src\main\resources\web\logo.svg	src\main\resources\web\logo.svg
src\main\resources\web\raks-theme.css	src\main\resources\web\raks-theme.css
src\main\resources\mule-app.properties	src\main\resources\mule-app.properties
build-apiguardwrapper-withmuleguard-raksanalyzer.bat	build-apiguardwrapper-withmuleguard-raksanalyzer.bat
build-apiguardwrapper-withmuleguard-raksanalyzer.sh	build-apiguardwrapper-withmuleguard-raksanalyzer.sh
build-apiguardwrapper.bat	build-apiguardwrapper.bat
build-apiguardwrapper.sh	build-apiguardwrapper.sh

<b>File Name</b>	<b>Relative Path</b>
clean-redeploy-apiguardwrapper.bat	clean-redeploy-apiguardwrapper.bat
clean-redeploy-apiguardwrapper.sh	clean-redeploy-apiguardwrapper.sh
deploy-apiguardwrapper.bat	deploy-apiguardwrapper.bat
deploy-apiguardwrapper.sh	deploy-apiguardwrapper.sh
mule-artifact.json	mule-artifact.json
pom.xml	pom.xml

## **9. References**

References section is placeholder for any reference details team requires. It can have team playbook reference details or any other information for project.