

Project Analysis Report

apiguardwrapper

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

Generated: December 25, 2025 21:08:41 CST

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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

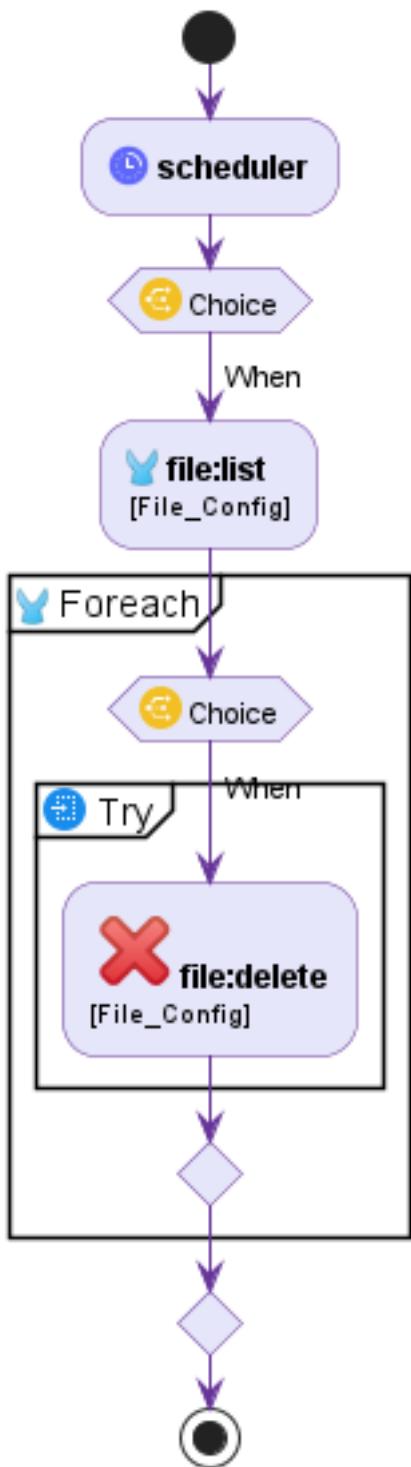
```
{
    "minMuleVersion": "4.9.1",
    "javaSpecificationVersions": [
        "17"
    ],
    "classLoaderModelLoaderDescriptor": {
        "id": "mule",
        "attributes": {
            "exportedPackages": [
                "javax.activation",
                "com.raks.muleguard.wrapper"
     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

2. Flow Diagrams

2.1 Mule Project Flow Integration

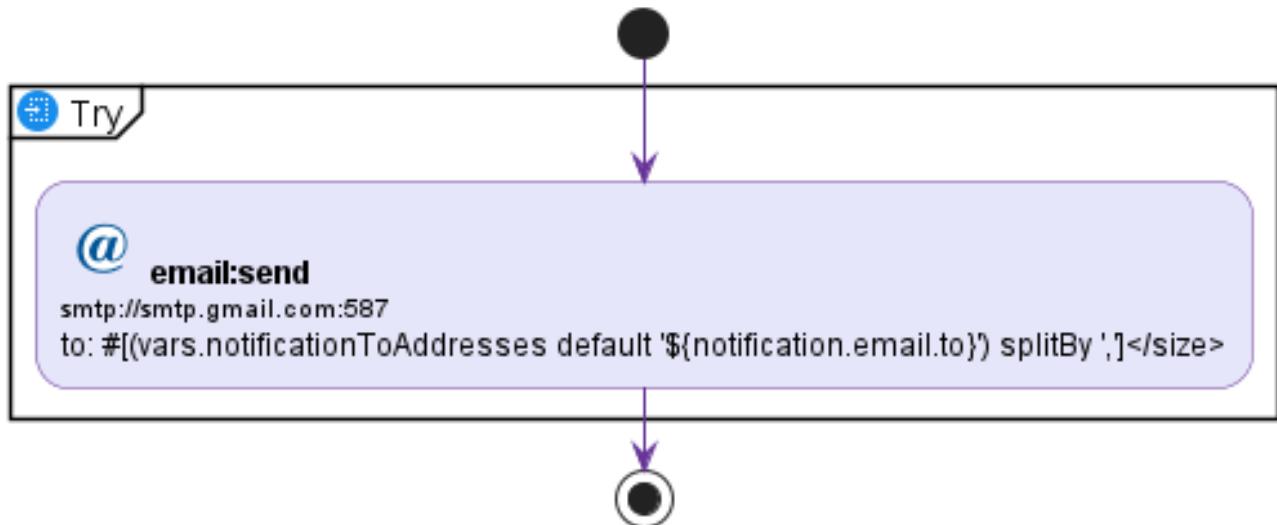
2.1.1 cleanup-workspace-flow

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



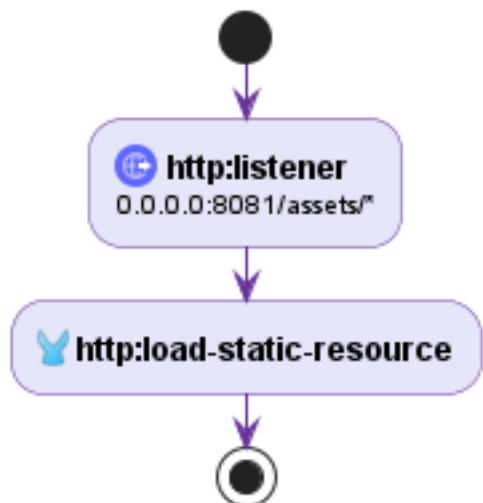
2.1.2 common-send-registration-notification-flow

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



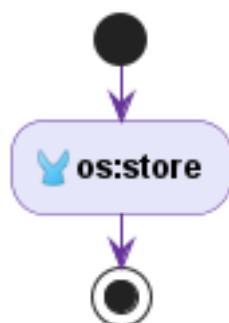
2.1.3 common-static-resource-flow

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



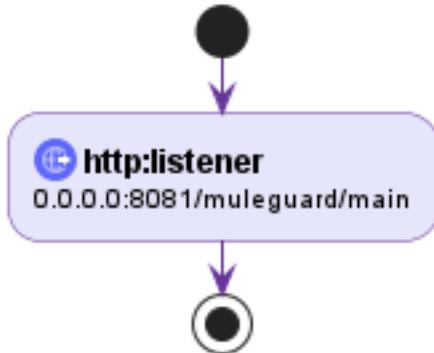
2.1.4 create-anonymous-session-subflow

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



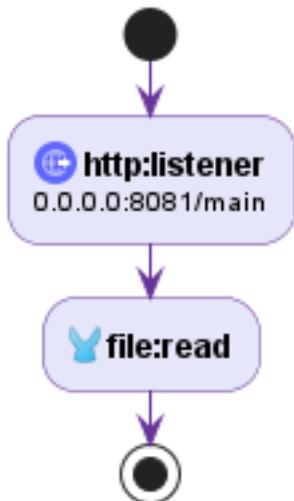
2.1.5 main-landing-page-flow

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



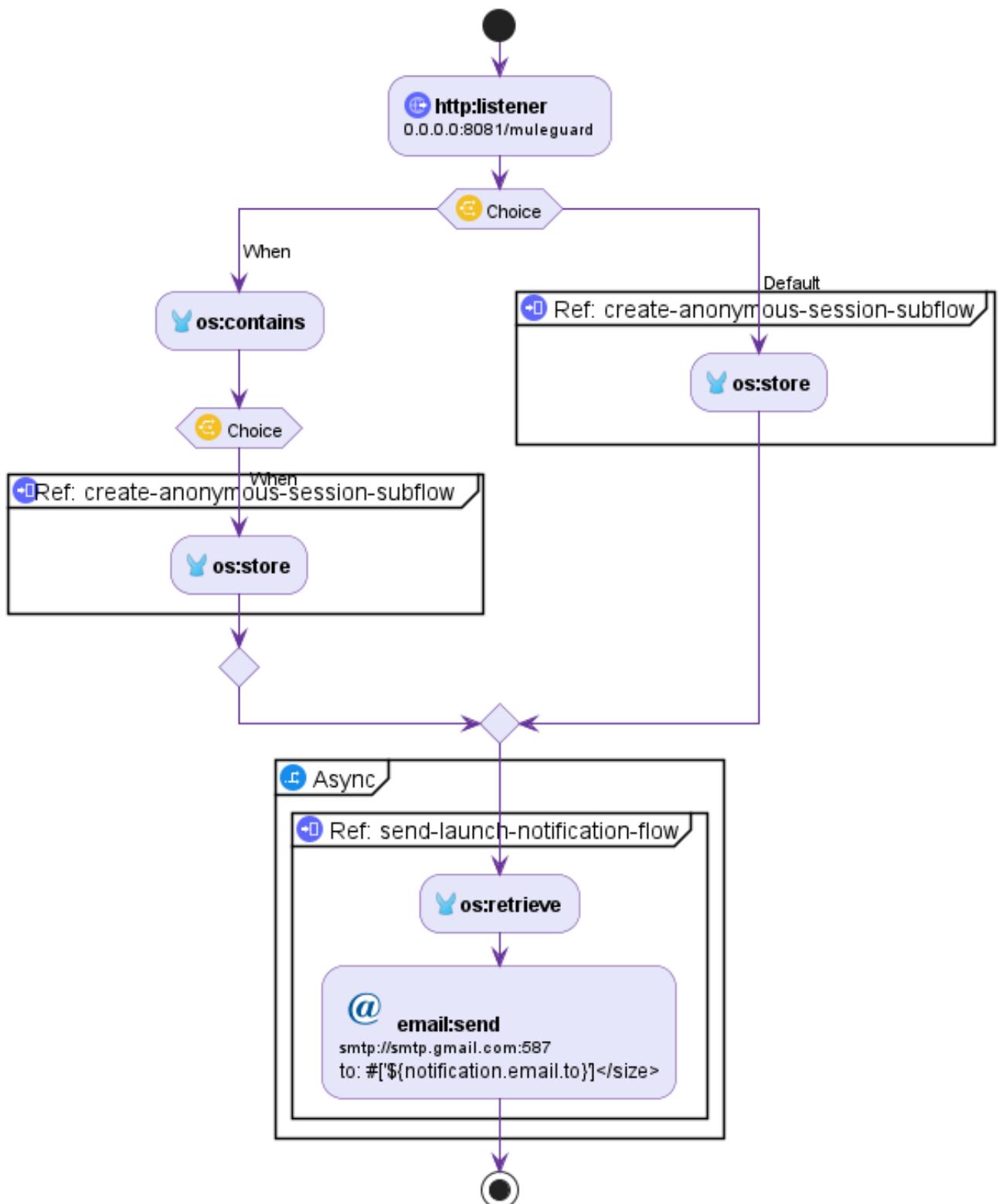
2.1.6 main-page-flow

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



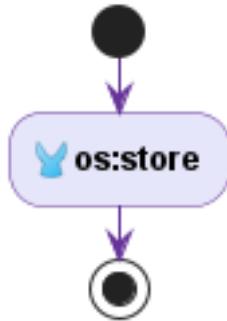
2.1.7 muleguard-root-flow

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



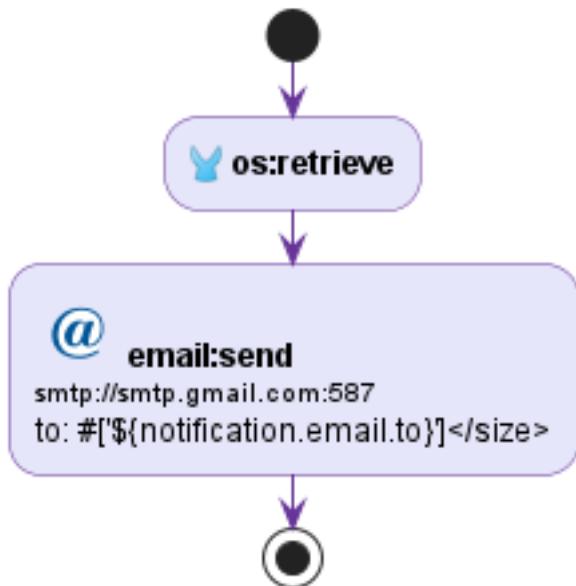
2.1.8 raks-create-anonymous-session-subflow

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



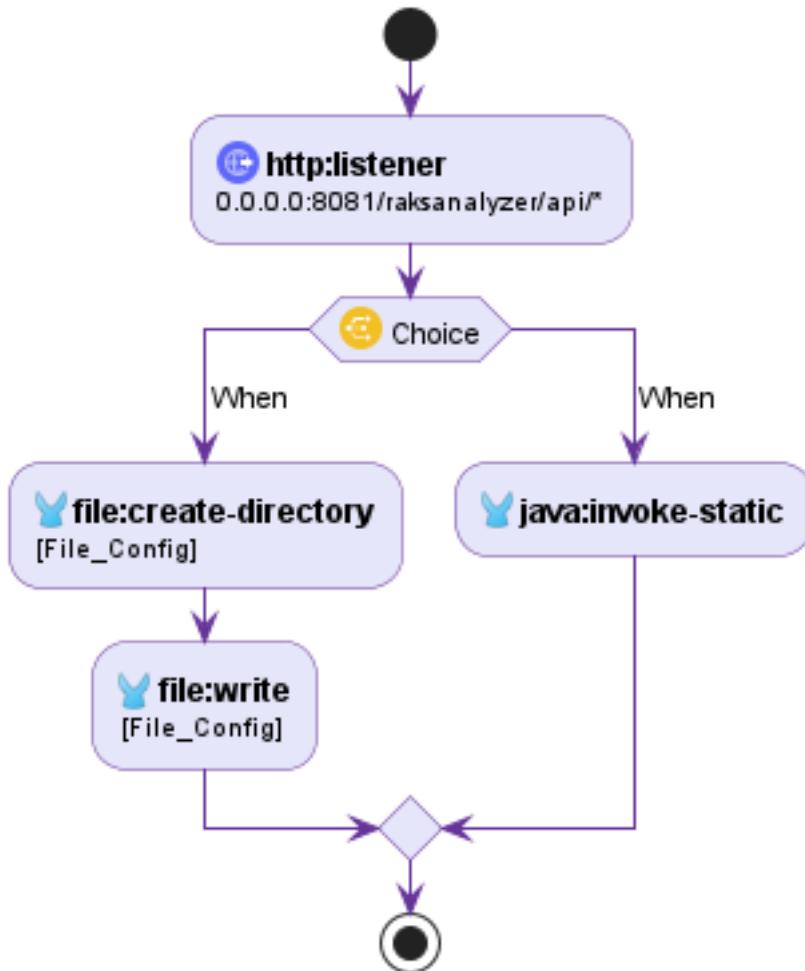
2.1.9 raks-send-launch-notification-flow

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



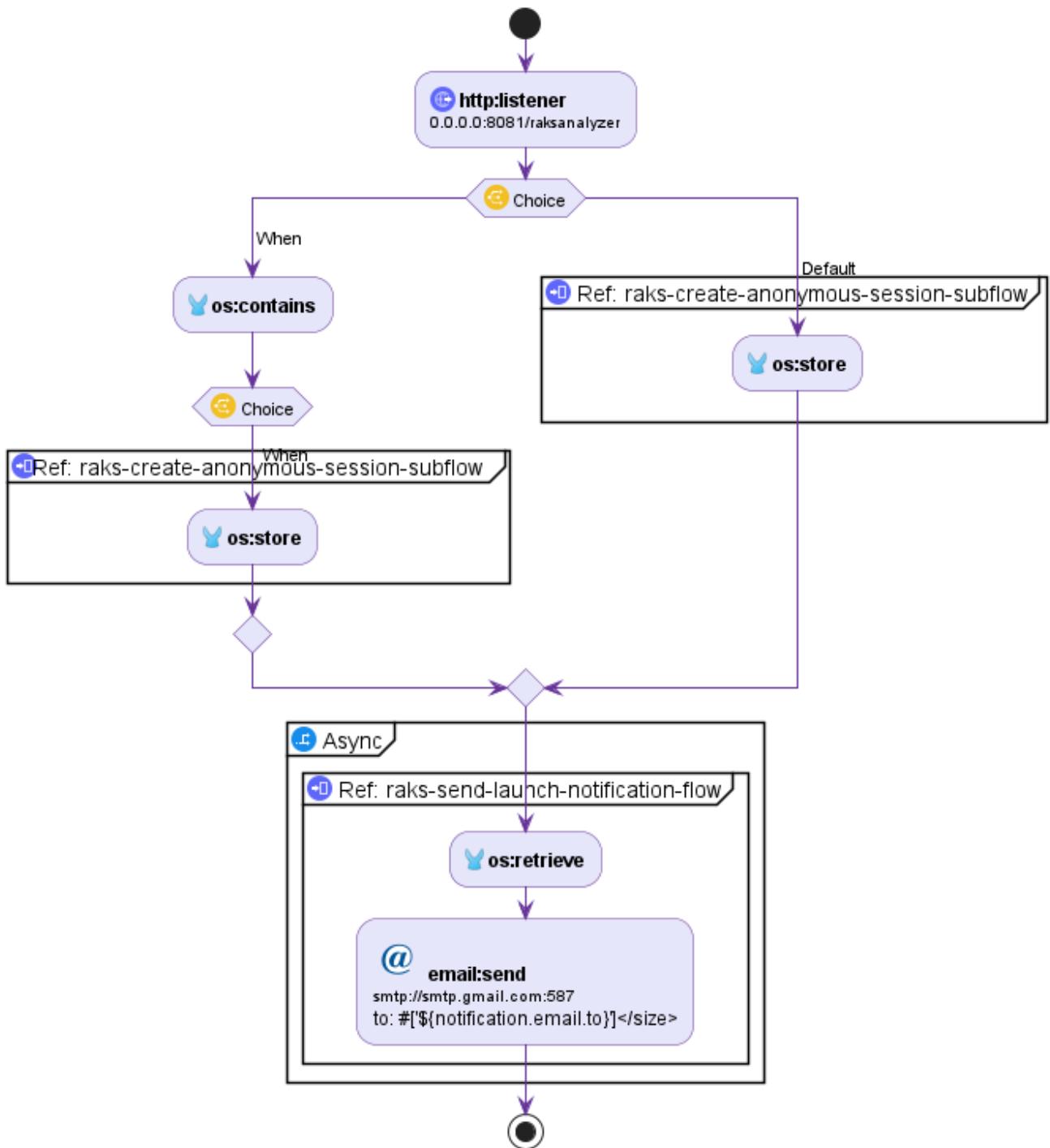
2.1.10 raksanalyzer-api-flow

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



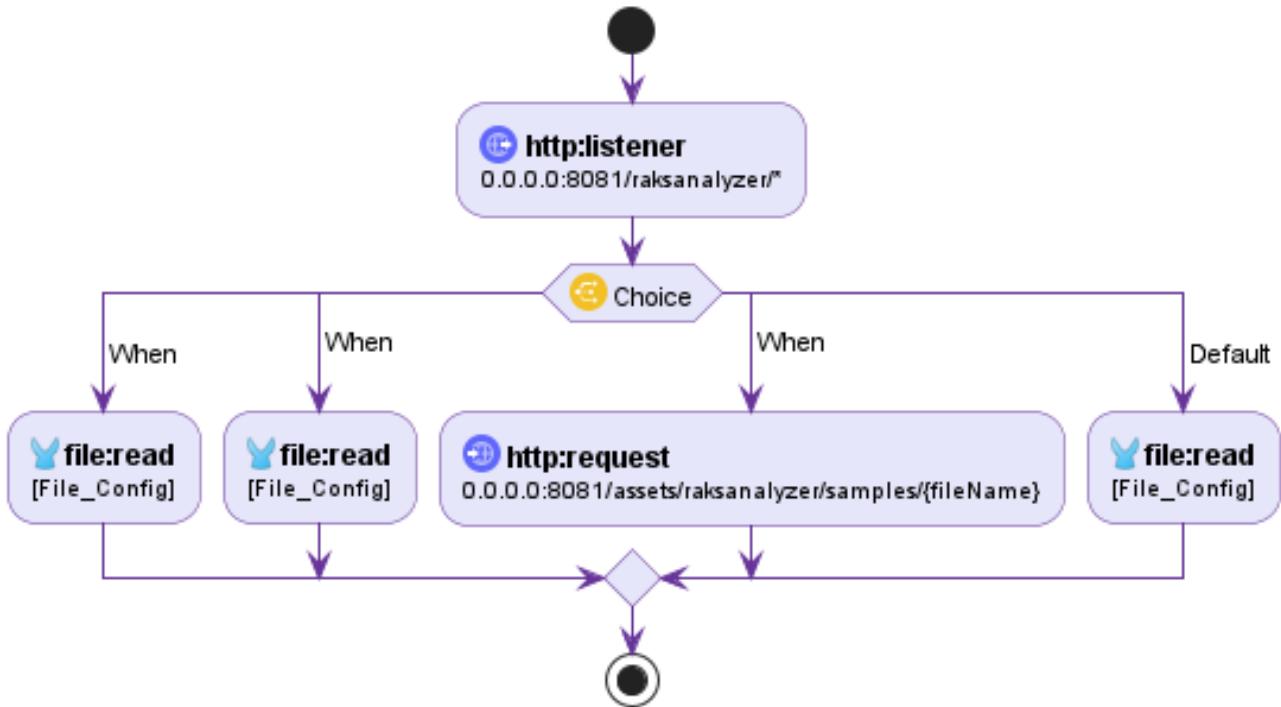
2.1.11 raksanalyzer-root-flow

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



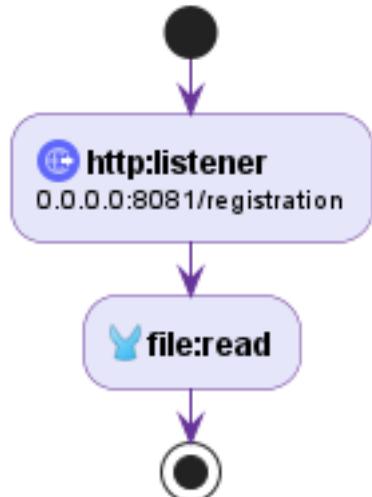
2.1.12 raksanalyzer-ui-flow

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



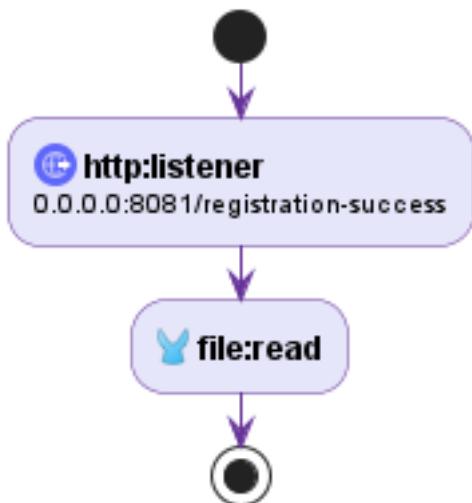
2.1.13 registration-page-flow

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



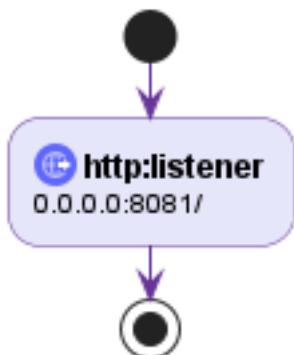
2.1.14 registration-success-flow

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



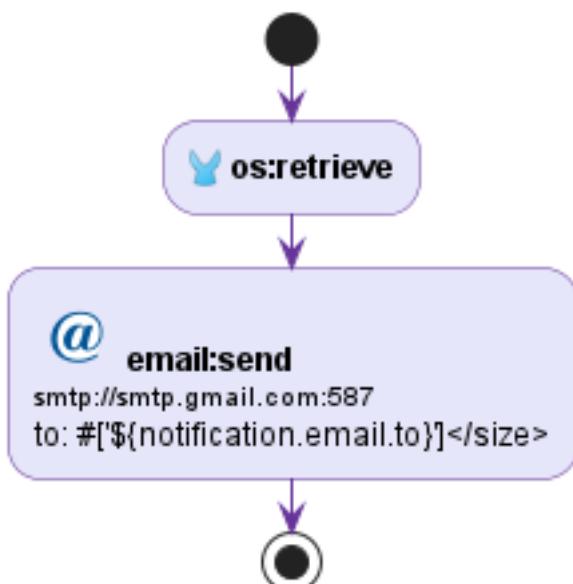
2.1.15 root-redirect-flow

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



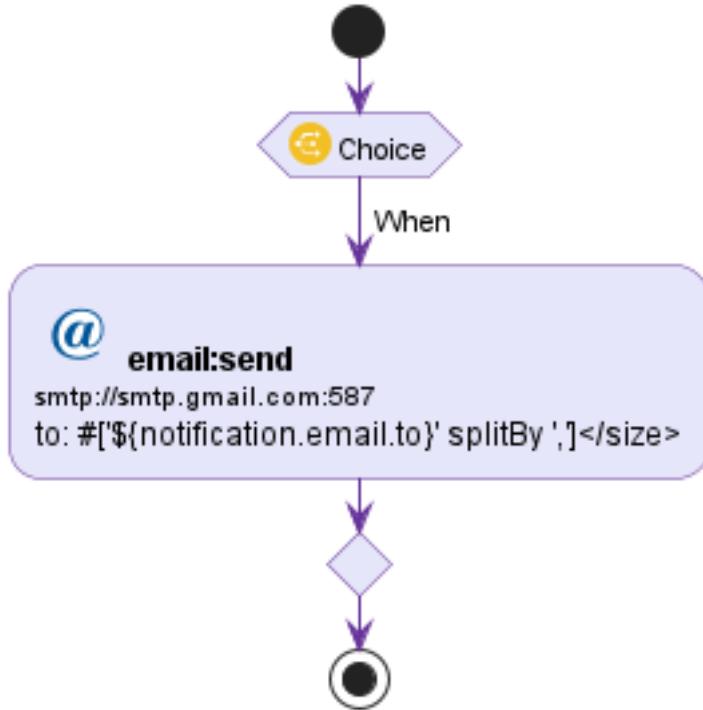
2.1.16 send-launch-notification-flow

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



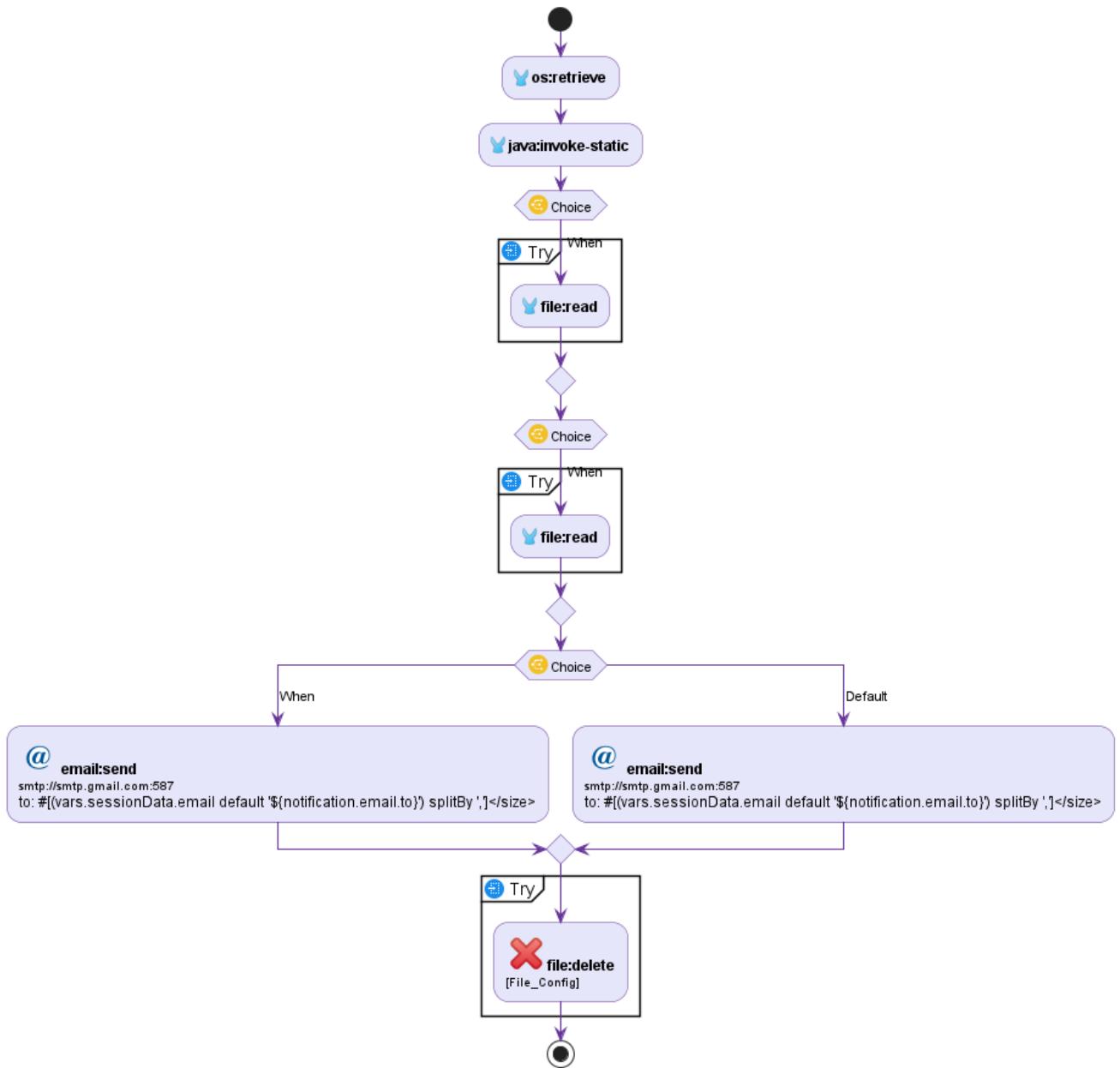
2.1.17 send-registration-notification-flow

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



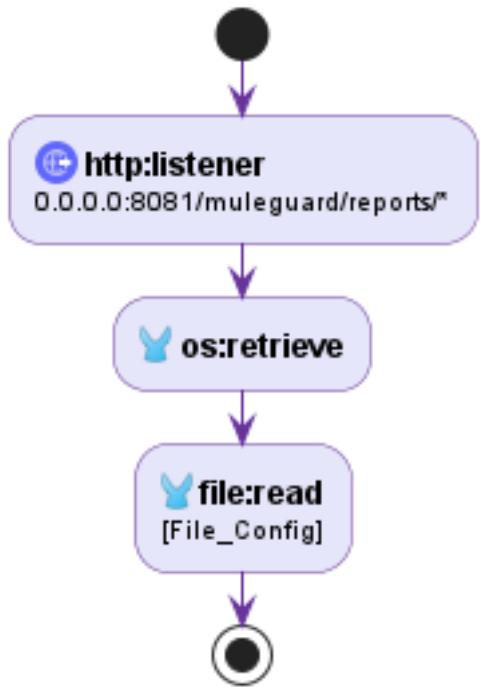
2.1.18 send-usage-notification-flow

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



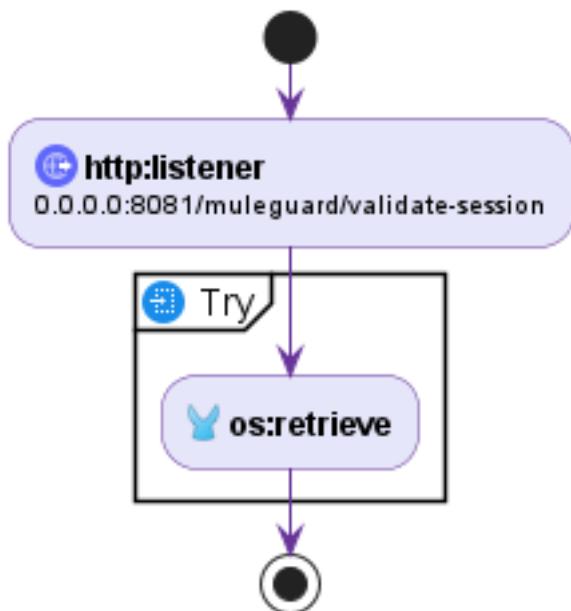
2.1.19 serve-report-flow

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



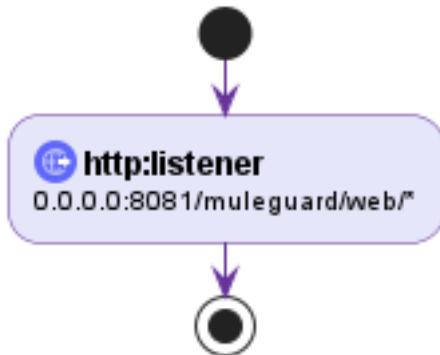
2.1.20 session-validation-flow

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



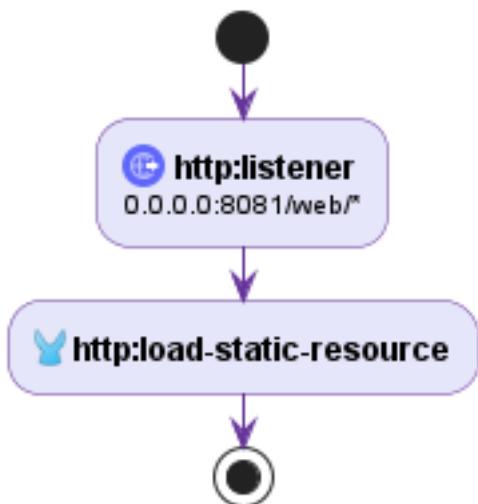
2.1.21 static-resource-flow

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



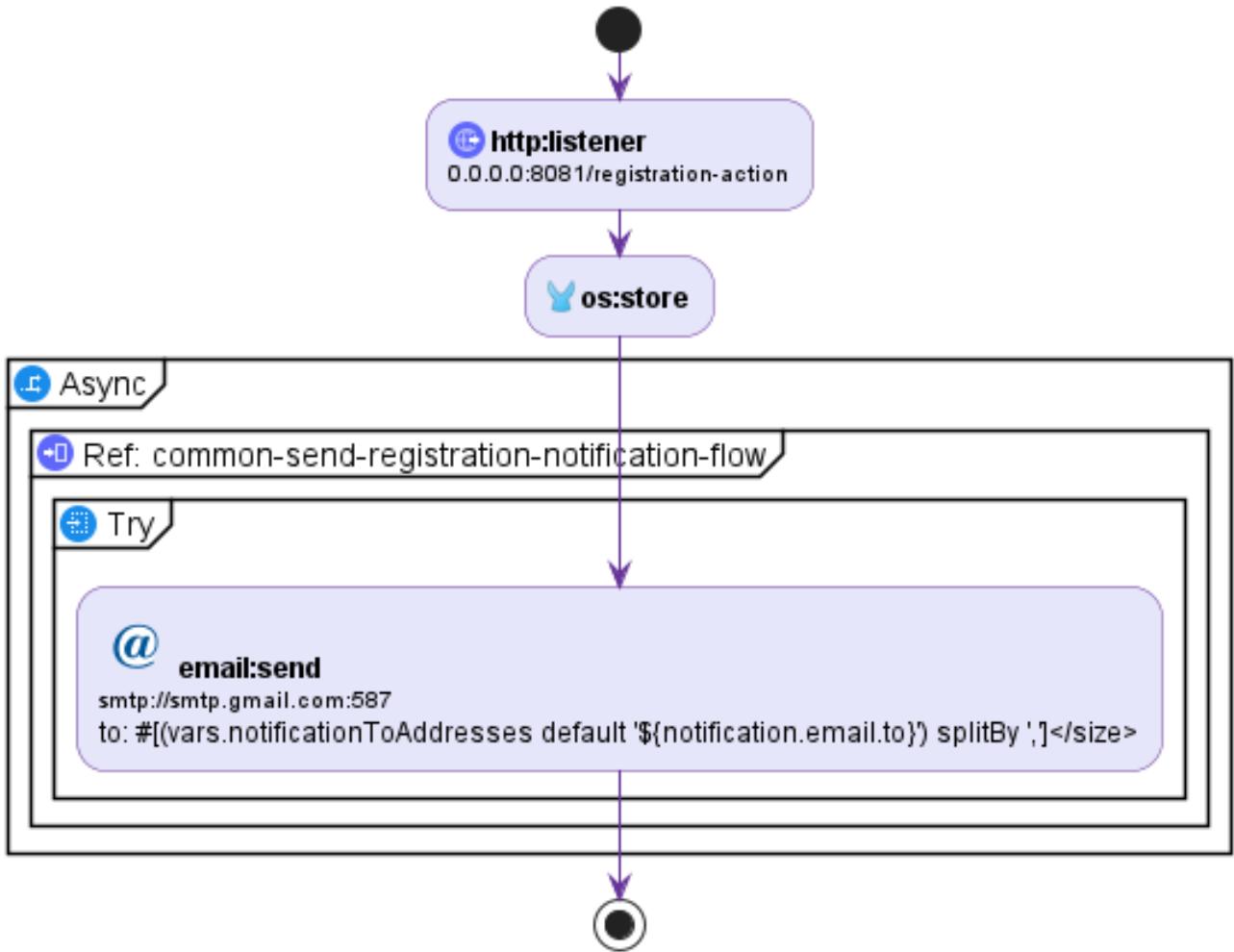
2.1.22 static-resources-flow

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



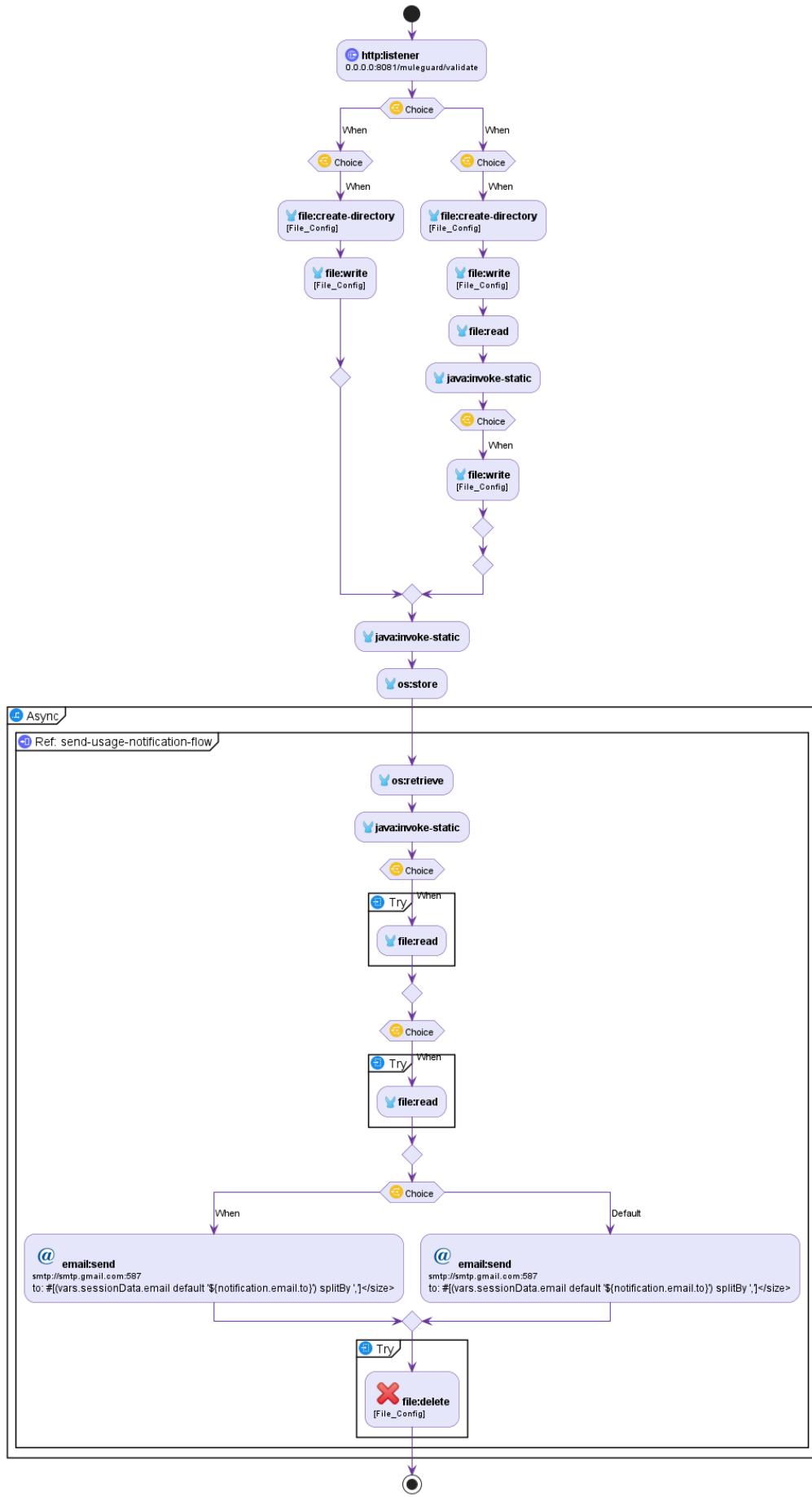
2.1.23 user-registration-flow

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



2.1.24 validation-trigger-flow

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

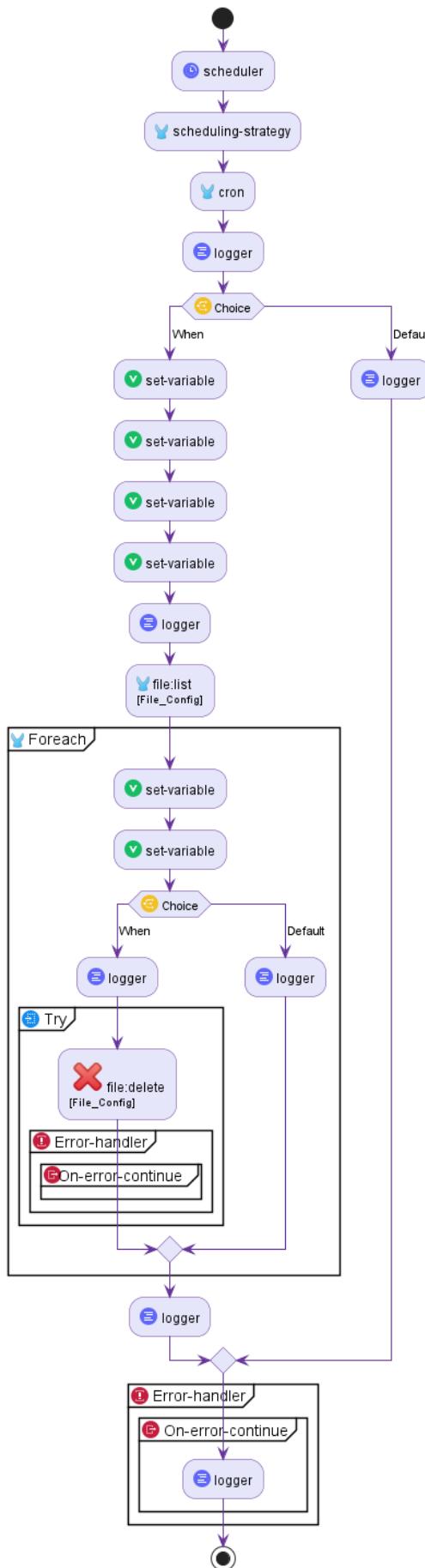


(Diagram scaled to fit page)

2.2 Mule Project Flow Diagram

2.2.1 cleanup-workspace-flow

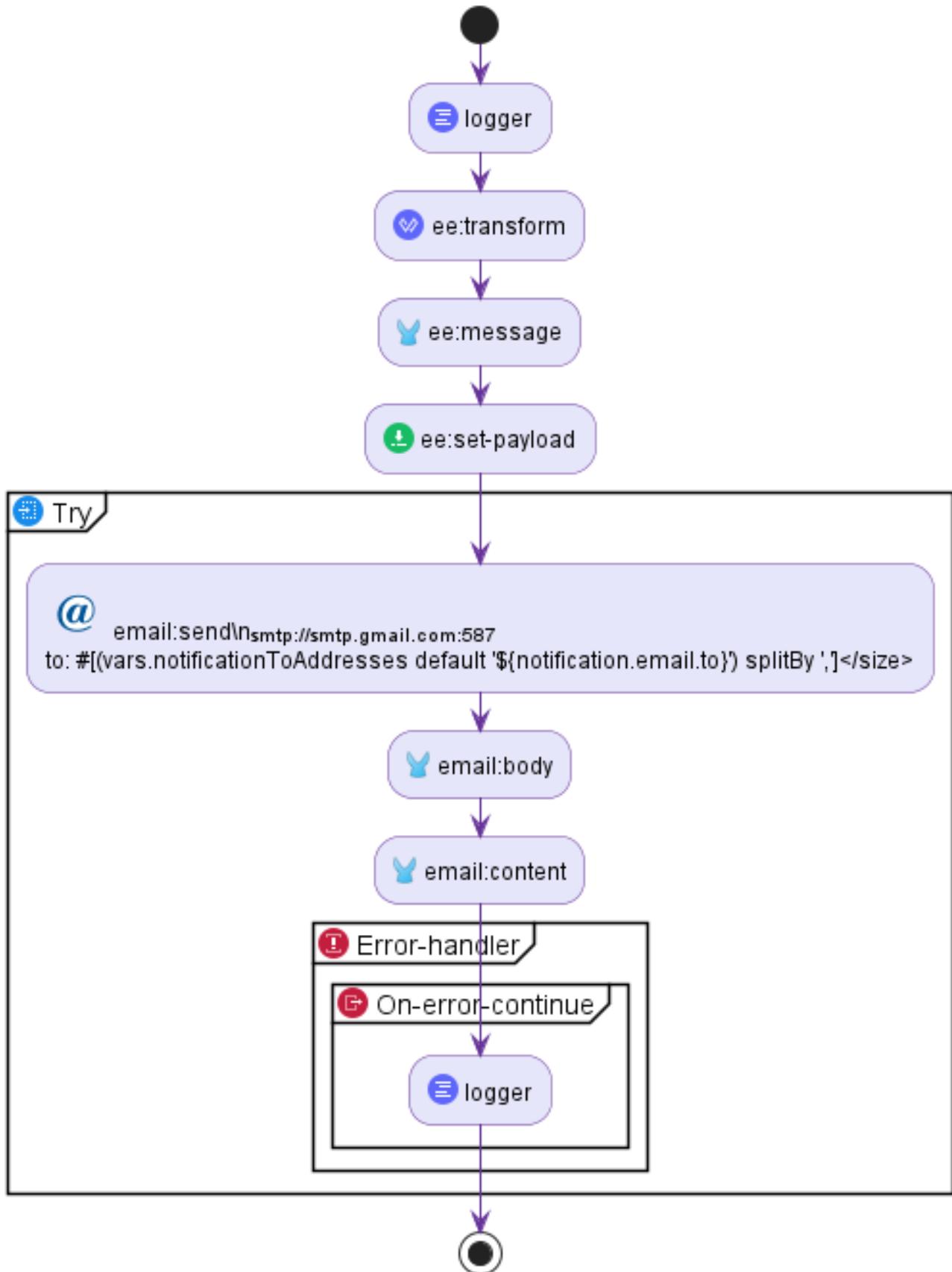
Path: src\main\mule\muleguard-wrapper.xml



(Diagram scaled to fit page)

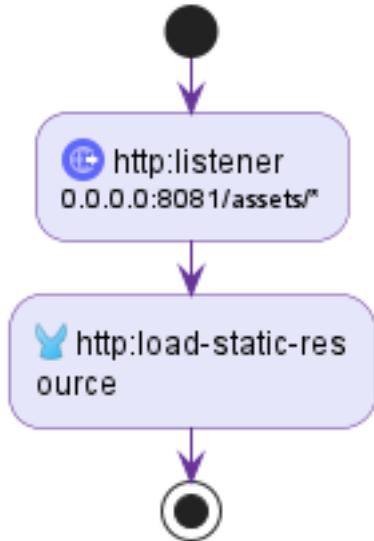
2.2.2 common-send-registration-notification-flow

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



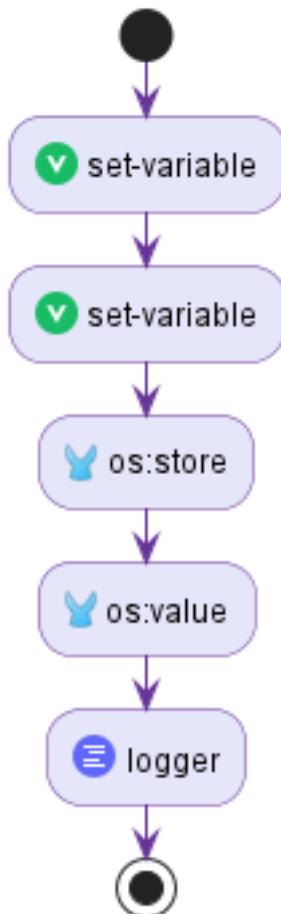
2.2.3 common-static-resource-flow

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



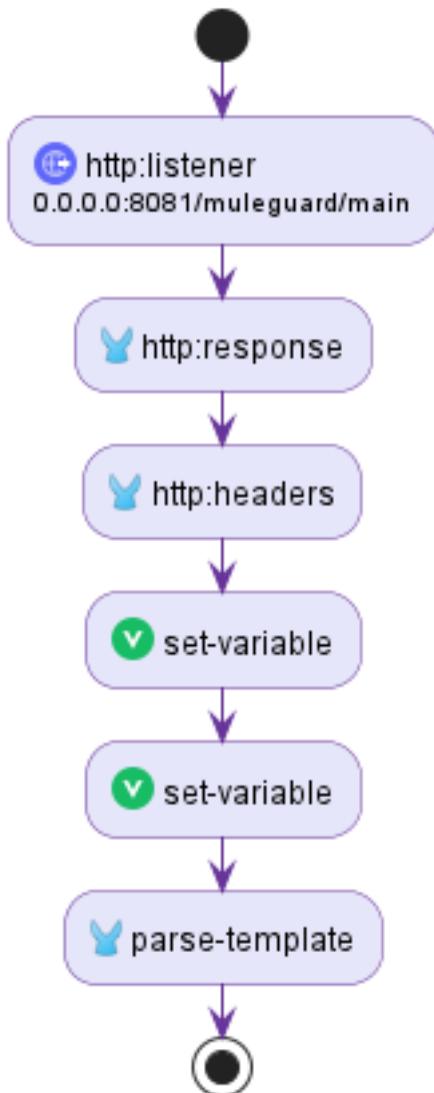
2.2.4 create-anonymous-session-subflow

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



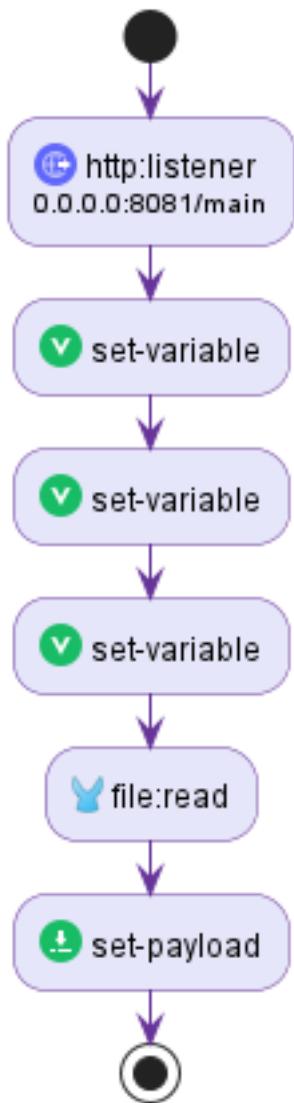
2.2.5 main-landing-page-flow

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



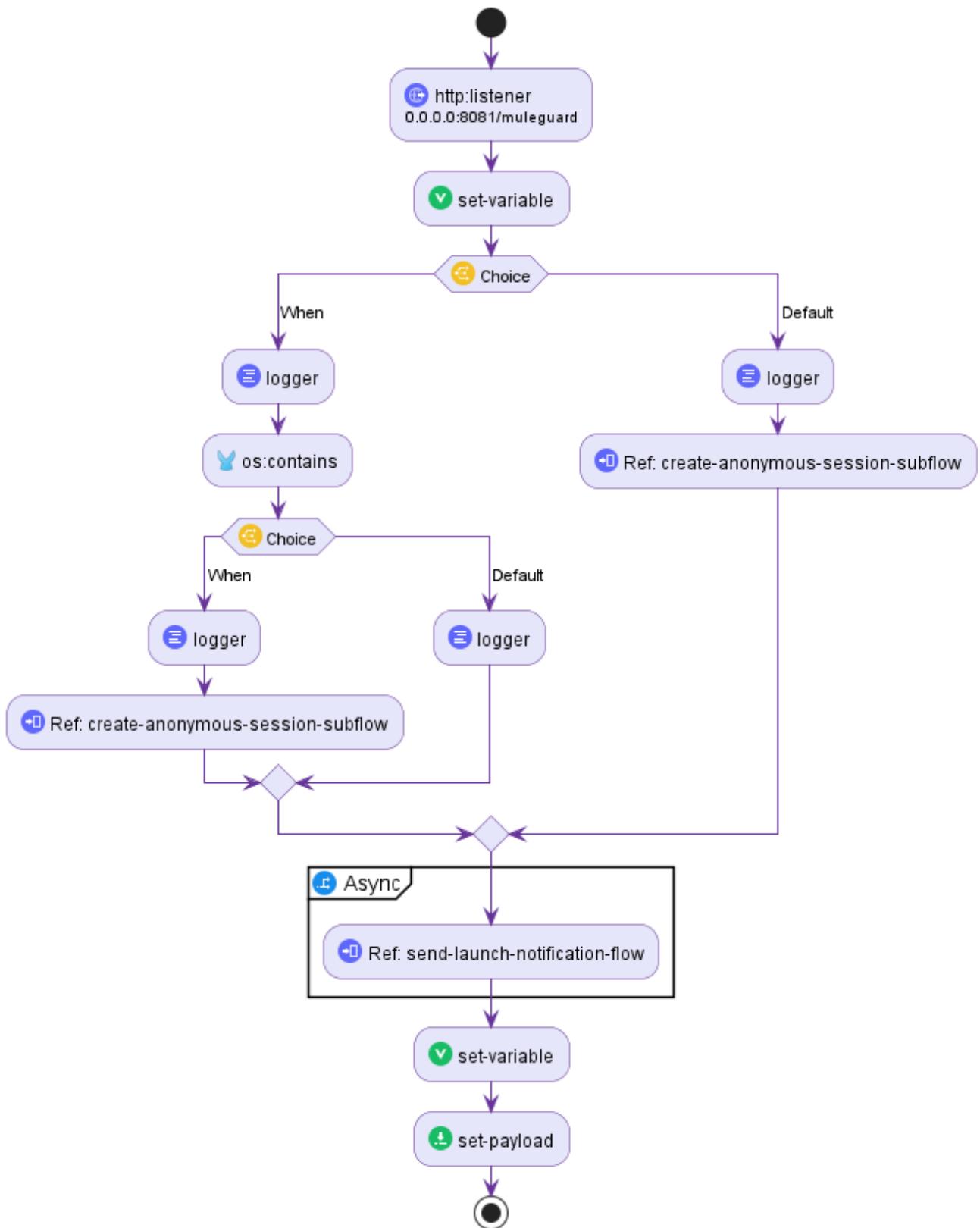
2.2.6 main-page-flow

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



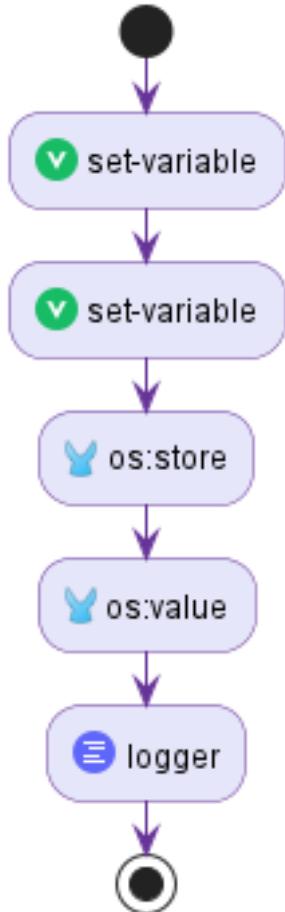
2.2.7 muleguard-root-flow

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



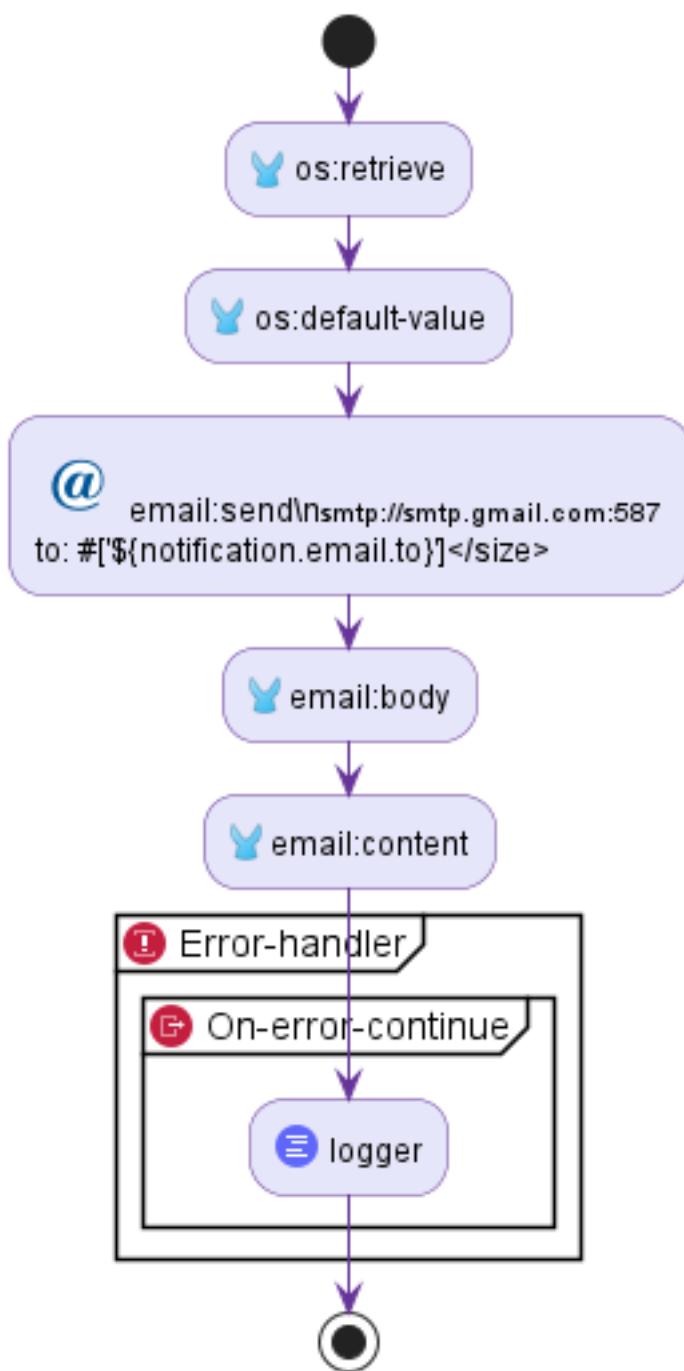
2.2.8 raks-create-anonymous-session-subflow

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



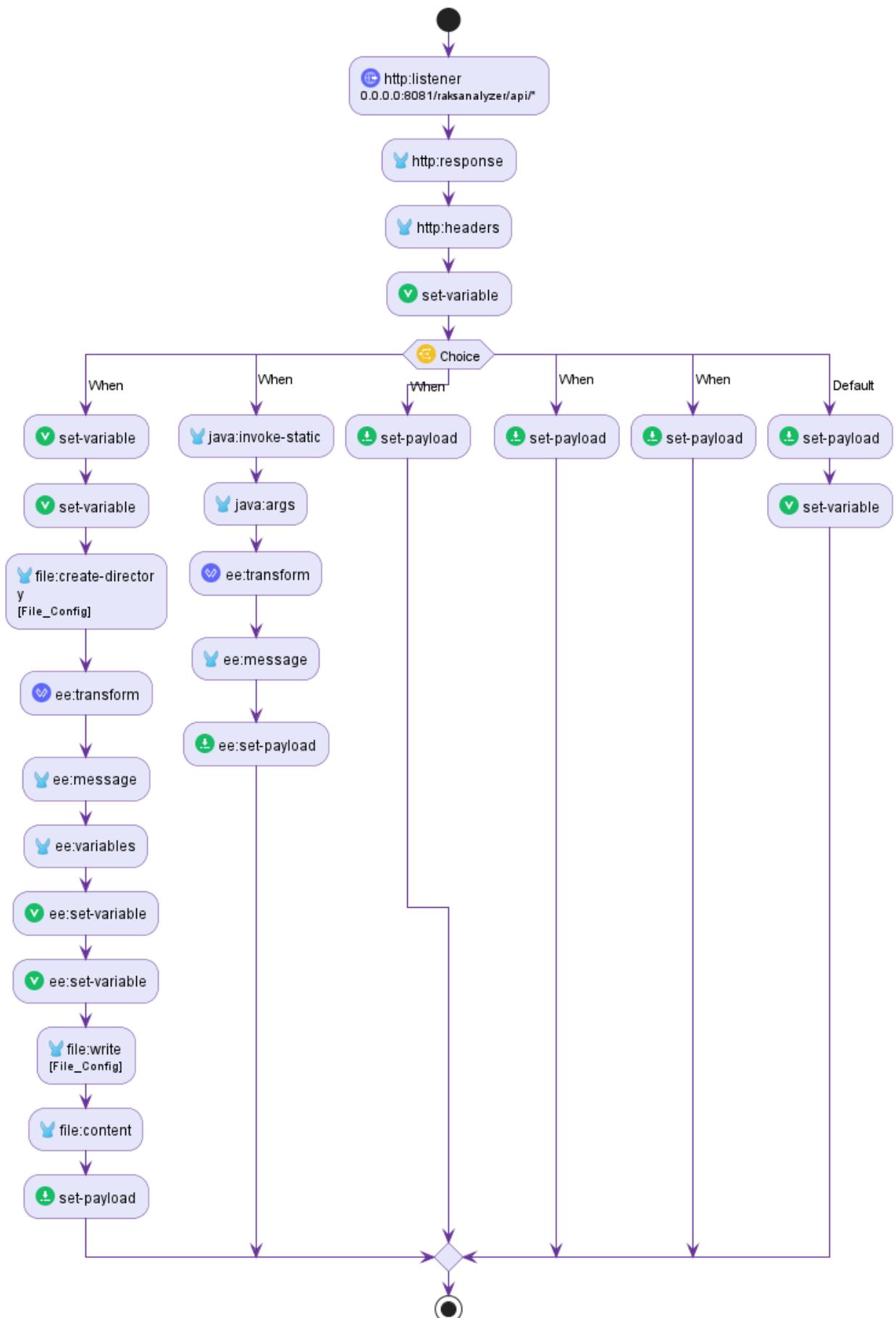
2.2.9 raks-send-launch-notification-flow

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



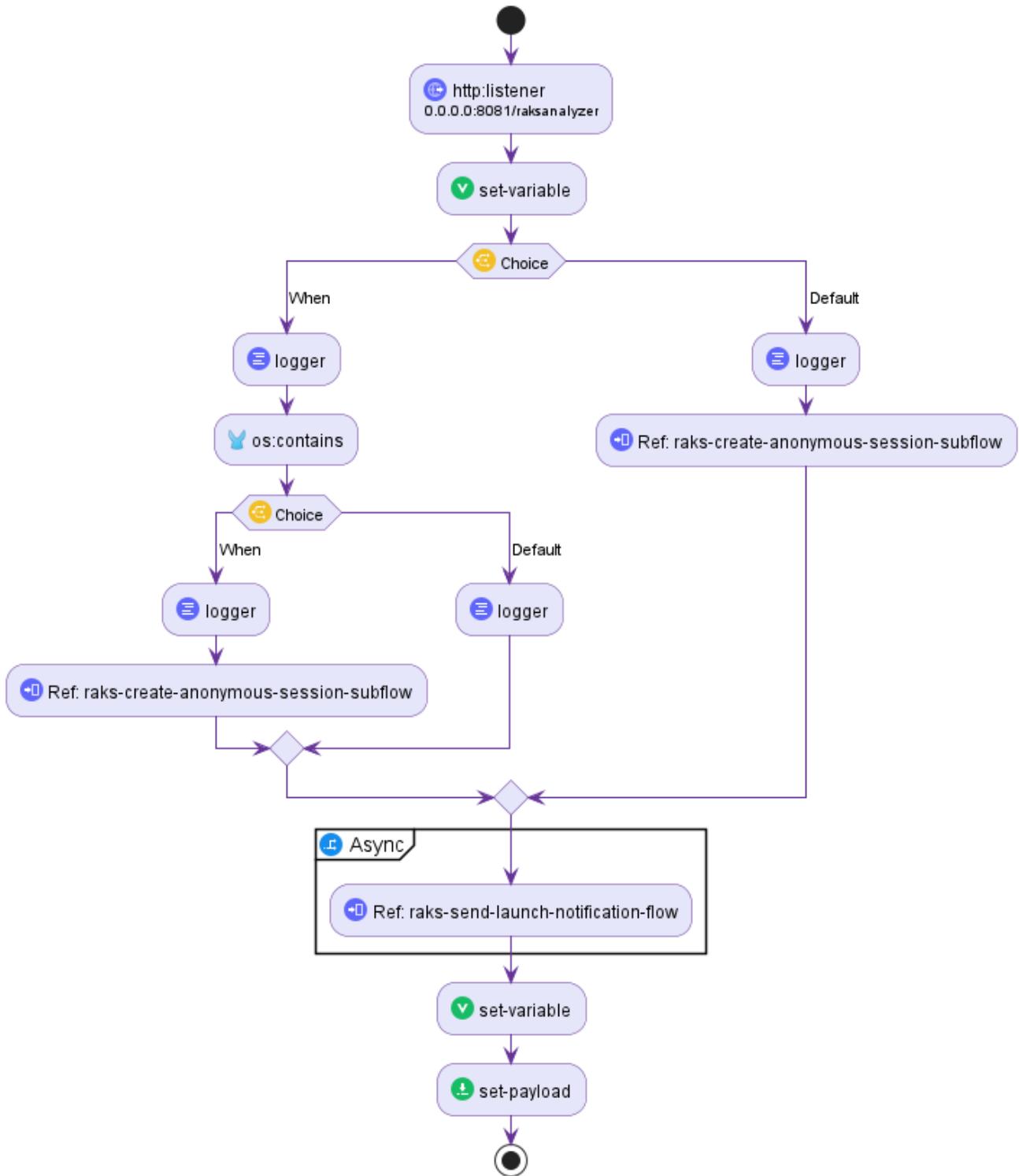
2.2.10 raksanalyzer-api-flow

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



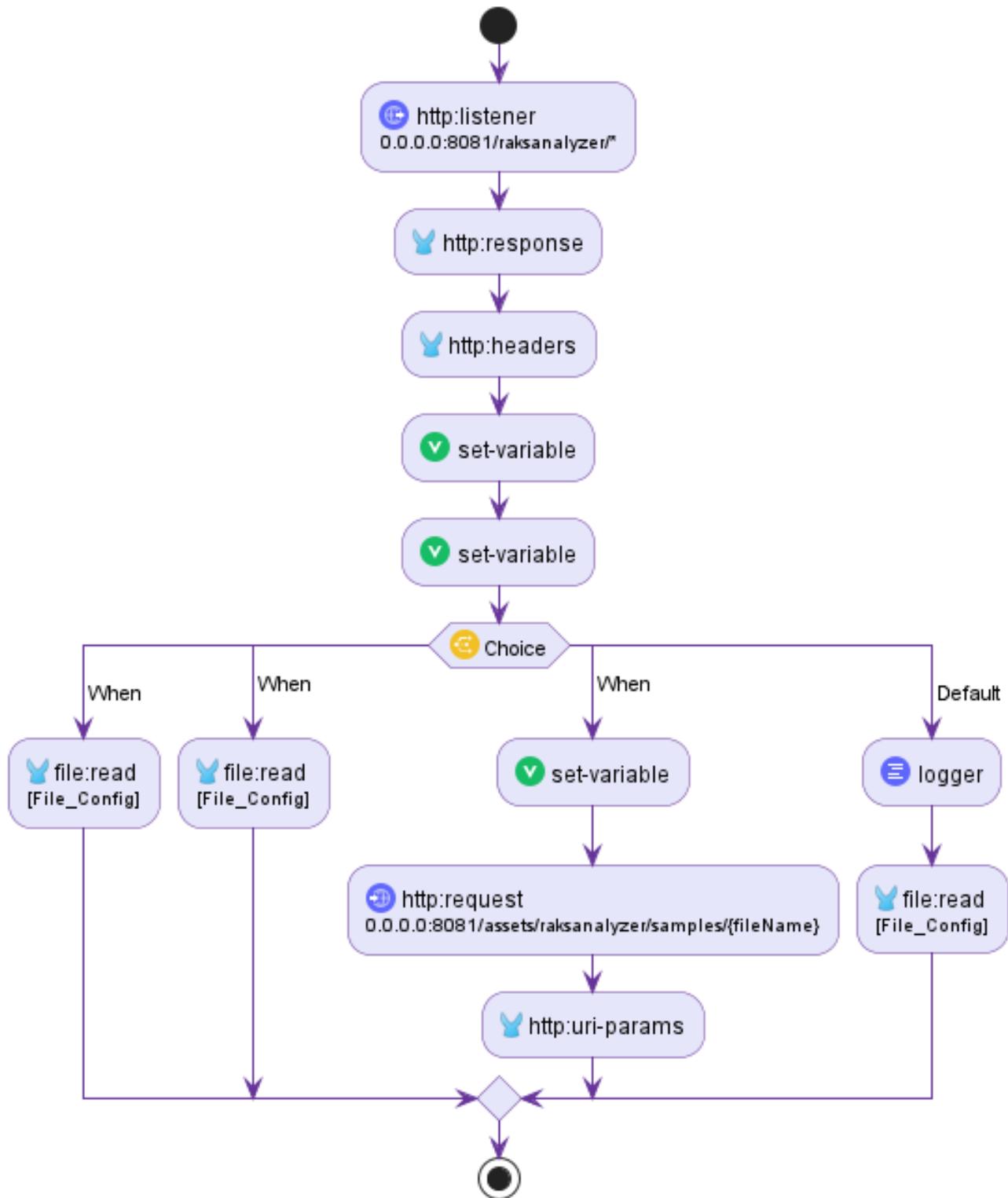
2.2.11 raksanalyzer-root-flow

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



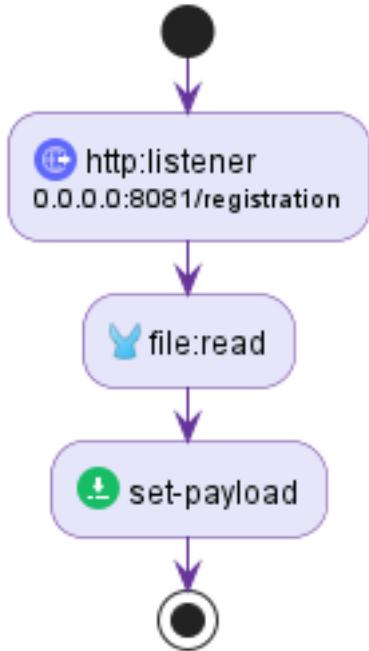
2.2.12 raksanalyzer-ui-flow

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



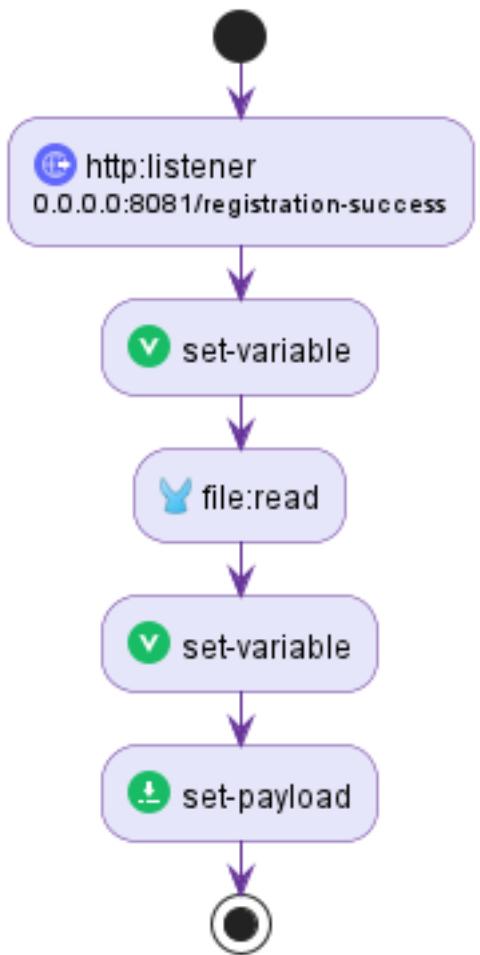
2.2.13 registration-page-flow

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



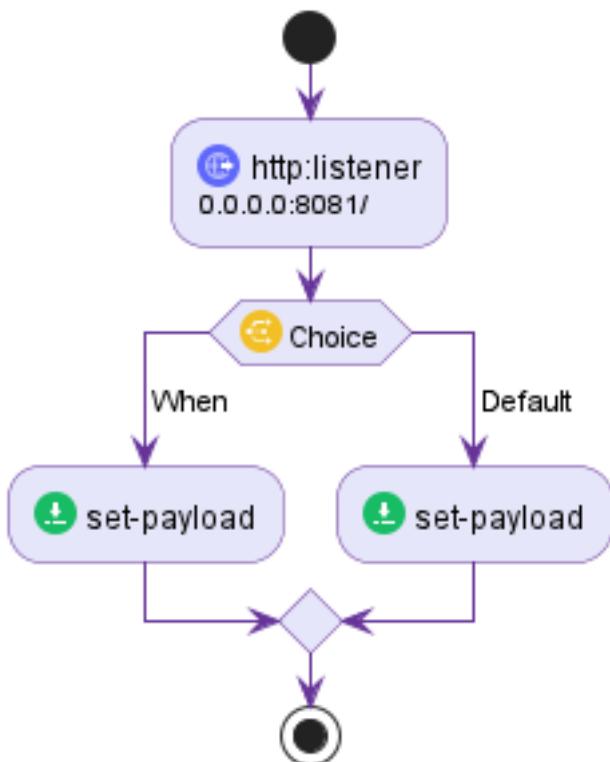
2.2.14 registration-success-flow

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



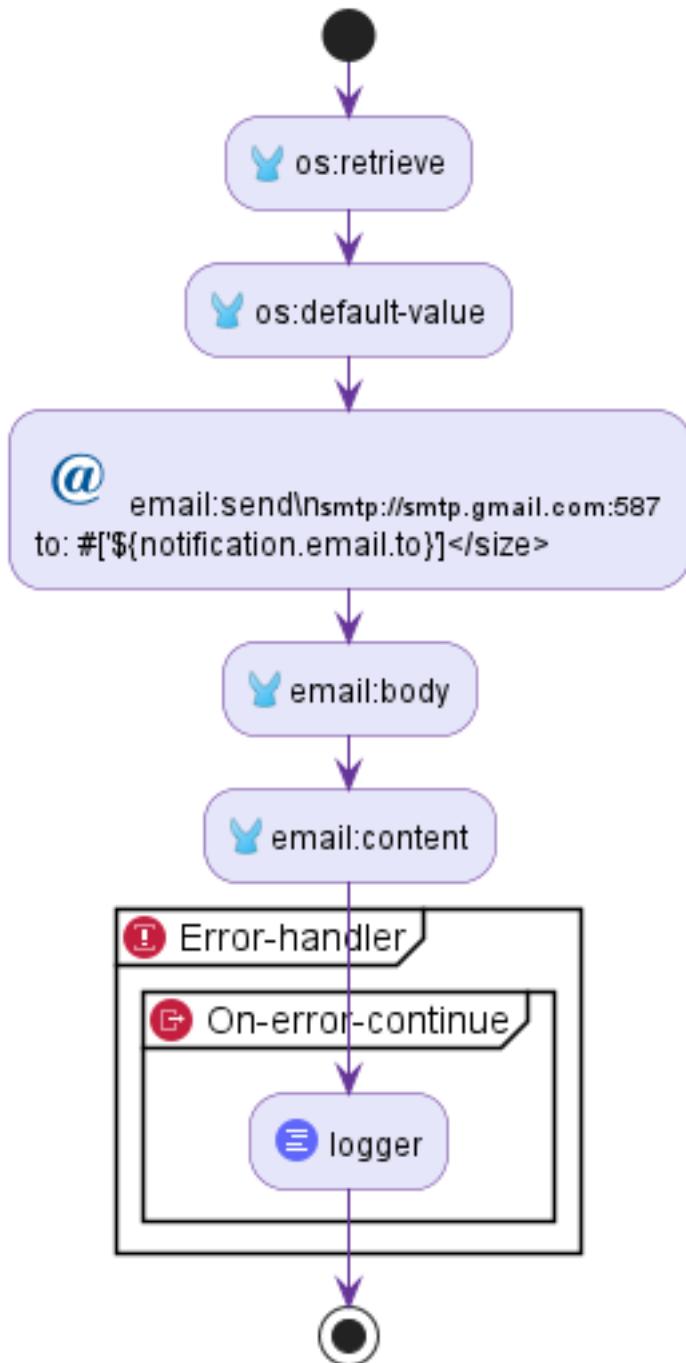
2.2.15 root-redirect-flow

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



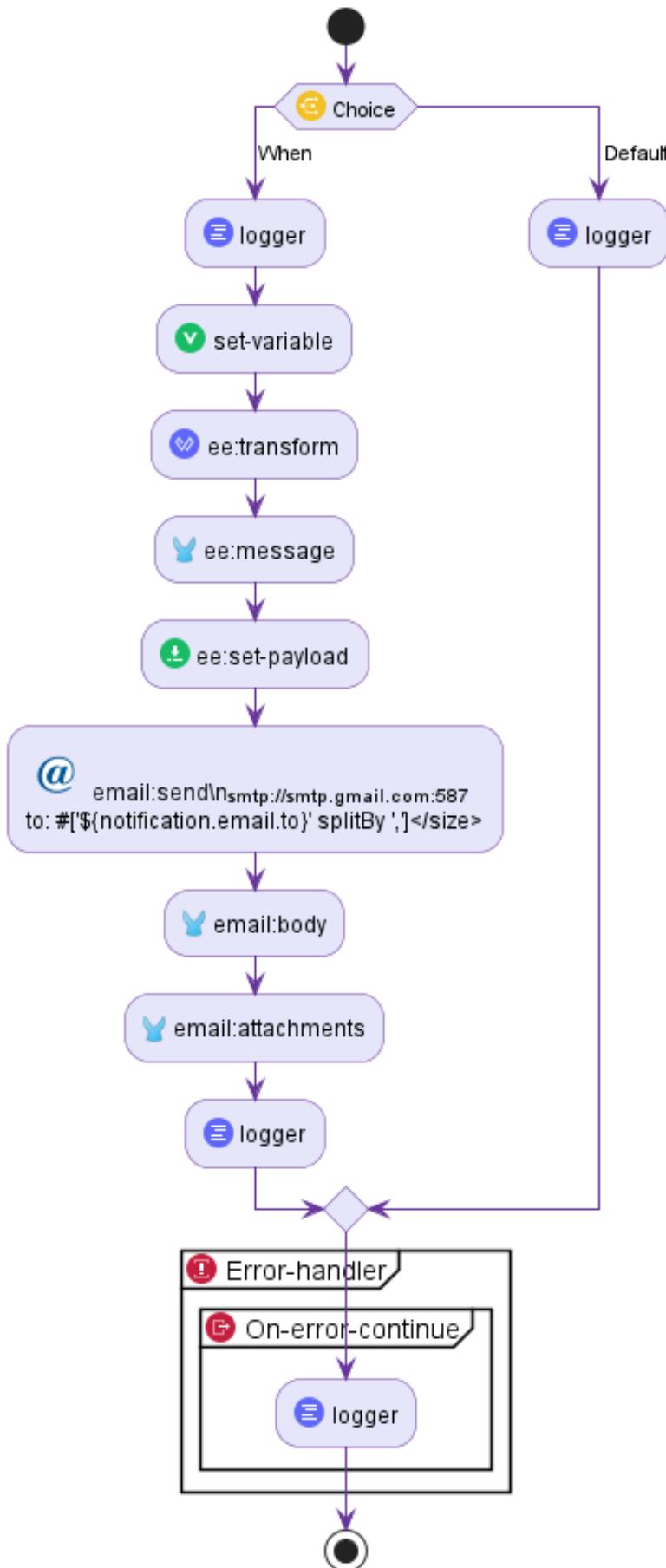
2.2.16 send-launch-notification-flow

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



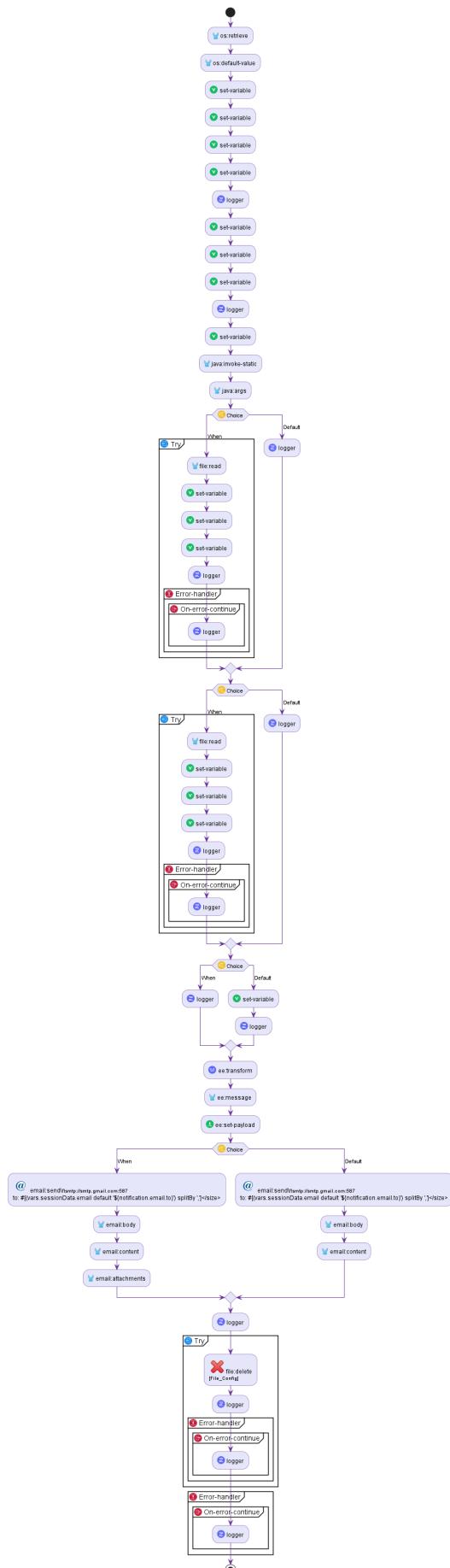
2.2.17 send-registration-notification-flow

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



2.2.18 send-usage-notification-flow

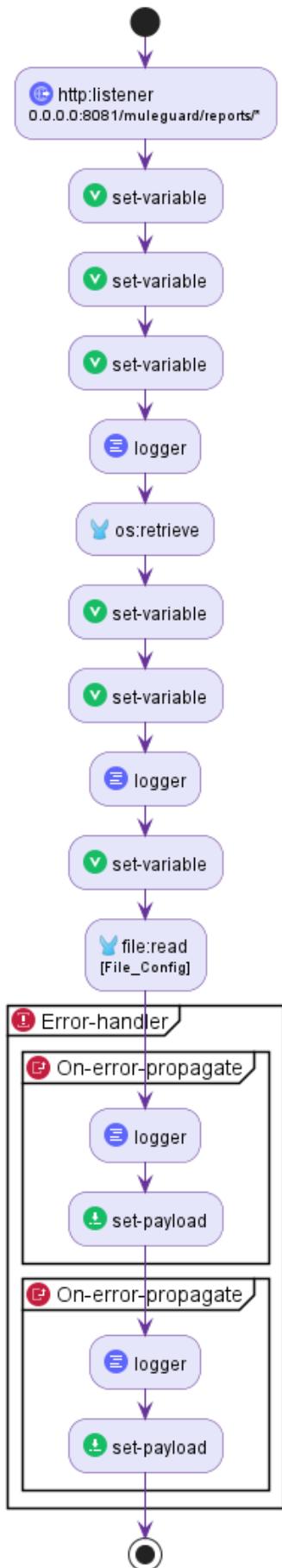
Path: src\main\mule\muleguard-wrapper.xml



(Diagram scaled to fit page)

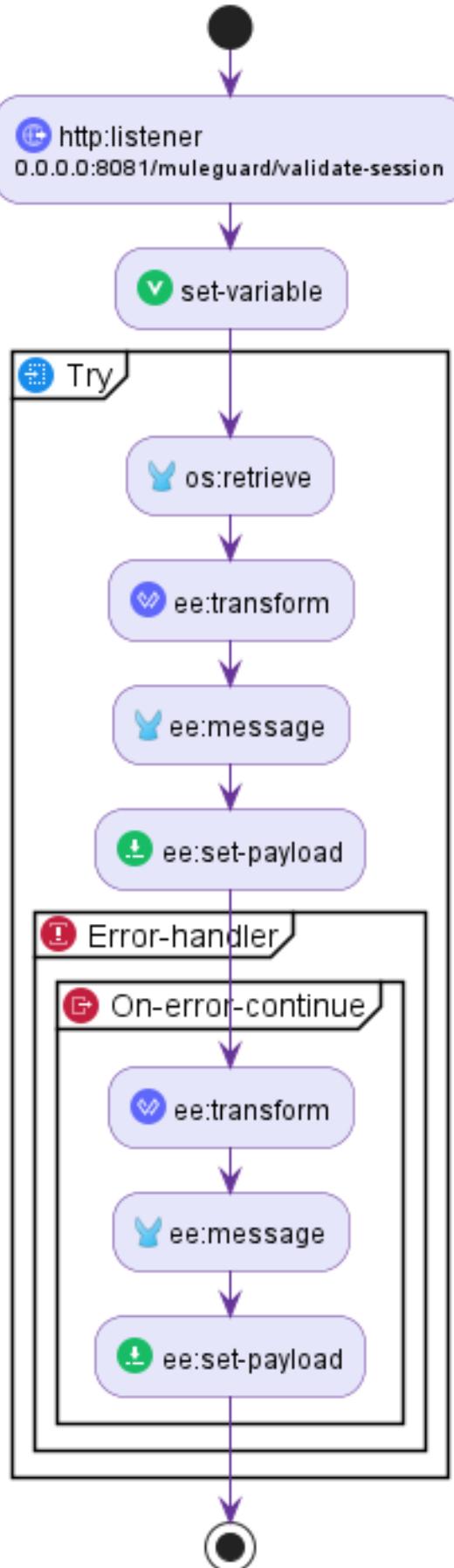
2.2.19 serve-report-flow

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



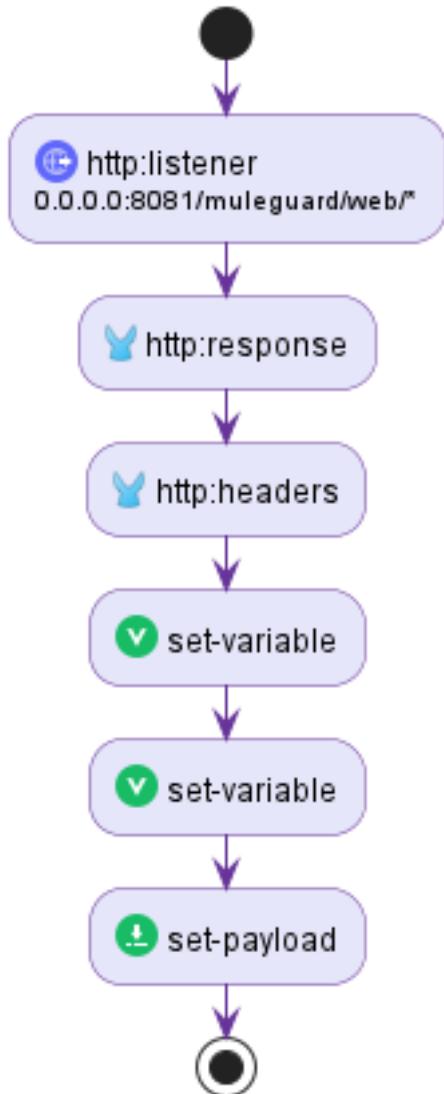
2.2.20 session-validation-flow

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



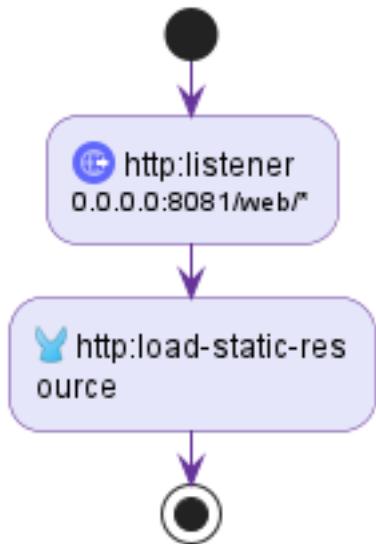
2.2.21 static-resource-flow

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



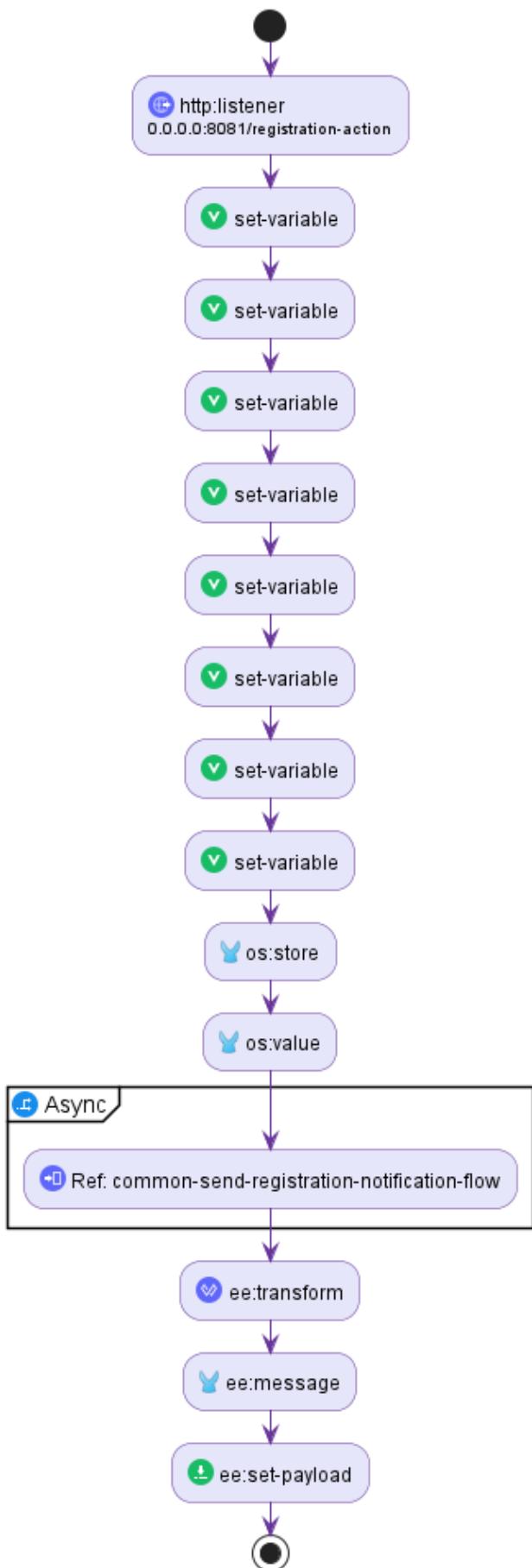
2.2.22 static-resources-flow

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



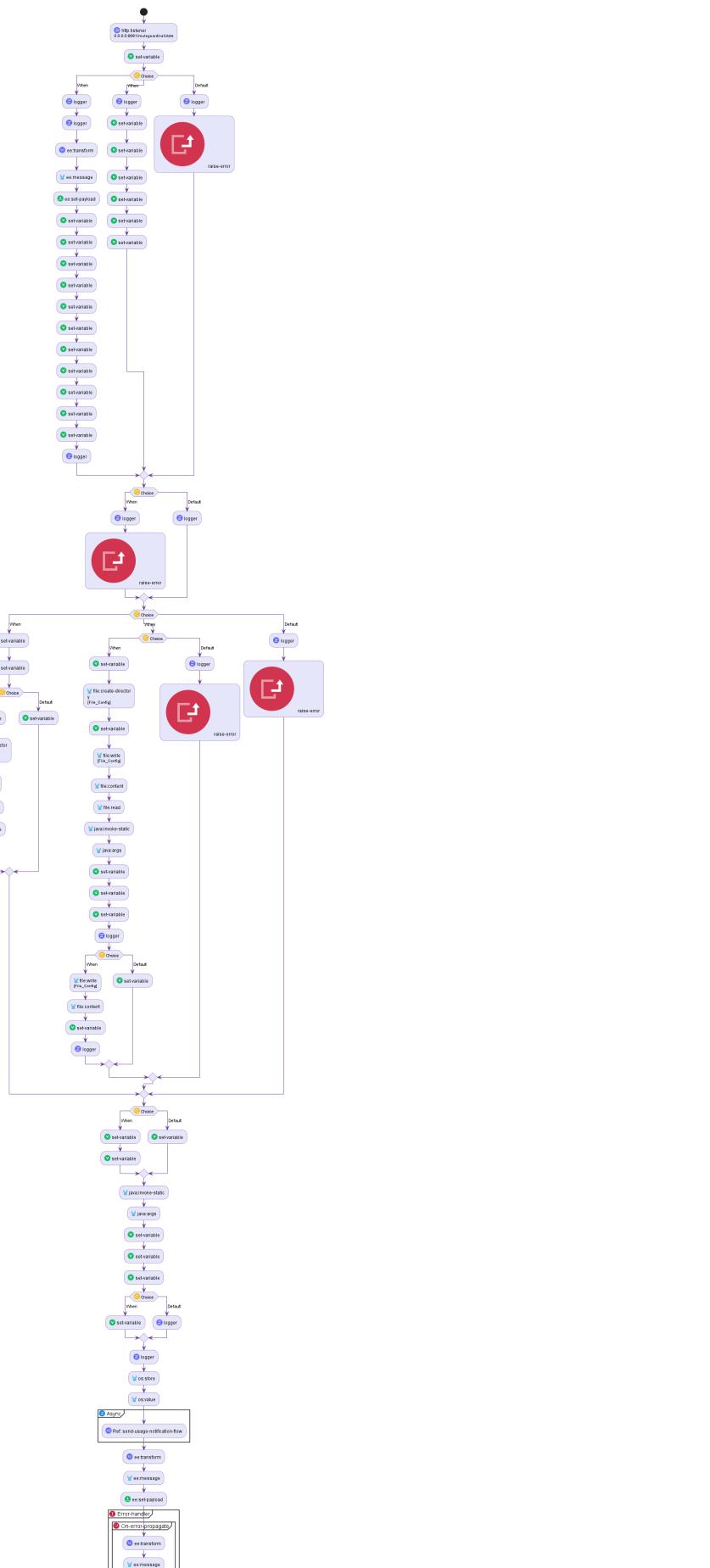
2.2.23 user-registration-flow

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 | © 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 | © 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 | © 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 | © 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 --- "<html> <body style='font-family: Arial, sans-serif;'> <div style='background-color: #f8f9fa; padding: 20px;'> <h2 style='color: #663399;'>? New User Registration</h2> <div style='background-color: white; padding: 20px; border-radius: 5px; border-left: 5px solid #663399;'> <p>Name: " ++ vars.userName ++ "</p> <p>Email: " ++ vars.userEmail ++ "</p> <p>Company: " ++ vars.userCompany ++ "</p> <p>Tool: " ++ (vars.currentTool default 'ApiGuard Portal') ++ "</p> <p>Time: " ++ now() ++ "</p> </div> <p style='color: #666; font-size: 12px; margin-top: 20px;'>ApiGuard Notification System</p> </div> </body> </html>"</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 --- "<html> <head> <style> 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; } </style> </head> <body> <div class='container'> <div class='header'> <h2 style='margin: 0;'>? MuleGuard Validation Report</h2> </div> <div class='section'> <h3 style='color: #663399; margin-top: 0;'>? User Information</h3> <table> <tr><td class='label'>Name:</td><td>" ++ vars.sessionData.name ++ "</td></tr> <tr><td class='label'>Email:</td><td>" ++ vars.sessionData.email ++ "</td></tr> <tr><td class='label'>Company:</td><td>" ++ 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 --- "<html> <head> <style> 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; } </style> </head> <body> <div class='container'> <div class='header'> <h2 style='margin: 0;'>New User Registration</h2> </div> <div class='section'> <p>A new user has registered to use the MuleGuard application.</p> <table> <tr><td class='label'>Name:</td><td>" ++ vars.userName ++ "</td></tr> <tr><td class='label'>Email:</td><td>" ++ vars.userEmail ++ "</td></tr> <tr><td class='label'>Company:</td><td>" ++ vars.userCompany ++ "</td></tr> <tr><td class='label'>IP Address:</td><td>" ++ vars.userIpAddress ++ "</td></tr> <tr><td class='label'>Session Start:</td><td>" ++ vars.sessionStartTime ++ "</td></tr> </table> </div> <div class='footer'> <p style='margin: 0;'>MuleGuard Notification System</p> </div> </body> </html>"</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

| 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> |

6.2.4 logger

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

7. DataWeave Files

No DataWeave files found

8. Other Resources

| File Name | Relative Path |
|-------------------------------------------------------------------|-------------------------------------------------------------------|
| 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_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 |
| 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 |
| 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 |

| File Name | Relative Path |
|-----------------------------------------------------------------|-----------------------------------------------------------------|
| 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 |
| 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.