

# **Project Analysis Report**

## **apiguardwrapper**

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

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# Table of Contents

1. Project Information .....	3
1.1 Project Details .....	3
1.2 POM Details .....	3
1.3 Mule-artifact.json .....	4
2. Flow Diagrams .....	5
2.1 Mule Project Flow Integration .....	5
2.1.1 cleanup-workspace-flow .....	5
2.1.2 common-send-registration-notification-flow .....	6
2.1.3 common-static-resource-flow .....	6
2.1.4 create-anonymous-session-subflow .....	6
2.1.5 main-landing-page-flow .....	7
2.1.6 main-page-flow .....	7
2.1.7 muleguard-root-flow .....	7
2.1.8 raks-create-anonymous-session-subflow .....	9
2.1.9 raks-send-launch-notification-flow .....	9
2.1.10 raksanalyzer-api-flow .....	9
2.1.11 raksanalyzer-root-flow .....	10
2.1.12 raksanalyzer-ui-flow .....	11
2.1.13 registration-page-flow .....	12
2.1.14 registration-success-flow .....	12
2.1.15 root-redirect-flow .....	13
2.1.16 send-launch-notification-flow .....	13
2.1.17 send-registration-notification-flow .....	14
2.1.18 send-usage-notification-flow .....	14
2.1.19 serve-report-flow .....	15
2.1.20 session-validation-flow .....	16
2.1.21 static-resource-flow .....	17
2.1.22 static-resources-flow .....	17
2.1.23 user-registration-flow .....	17
2.1.24 validation-trigger-flow .....	18
2.2 Mule Project Flow Diagram .....	20
2.2.1 cleanup-workspace-flow .....	20
2.2.2 common-send-registration-notification-flow .....	22
2.2.3 common-static-resource-flow .....	23
2.2.4 create-anonymous-session-subflow .....	23

2.2.5 main-landing-page-flow .....	25
2.2.6 main-page-flow .....	25
2.2.7 muleguard-root-flow .....	26
2.2.8 raks-create-anonymous-session-subflow .....	28
2.2.9 raks-send-launch-notification-flow .....	28
2.2.10 raksanalyzer-api-flow .....	29
2.2.11 raksanalyzer-root-flow .....	31
2.2.12 raksanalyzer-ui-flow .....	32
2.2.13 registration-page-flow .....	33
2.2.14 registration-success-flow .....	33
2.2.15 root-redirect-flow .....	34
2.2.16 send-launch-notification-flow .....	35
2.2.17 send-registration-notification-flow .....	36
2.2.18 send-usage-notification-flow .....	37
2.2.19 serve-report-flow .....	38
2.2.20 session-validation-flow .....	39
2.2.21 static-resource-flow .....	40
2.2.22 static-resources-flow .....	40
2.2.23 user-registration-flow .....	41
2.2.24 validation-trigger-flow .....	43
<b>3. Global Configuration .....</b>	<b>44</b>
3.1 src\main\resources\mule-app.properties .....	44
<b>4. Connector Configurations .....</b>	<b>47</b>
<b>4.1. Email_SMTP (email:smtp-config) .....</b>	<b>47</b>
4.1.1 email:smtp-connection .....	47
4.1.1.1 email:properties .....	47
4.1.1.1.1 email:property .....	47
4.2. File_Config (file:config) .....	47
4.2.1 file:connection .....	47
4.3. HTTP_Listener_config (http:listener-config) .....	47
4.3.1 http:listener-connection .....	48
4.4. ObjectStore_Config (os:config) .....	48
4.5. Self_HTTP_Request_Config (http:request-config) .....	48
4.5.1 http:request-connection .....	48
<b>5. Mule Flows .....</b>	<b>49</b>
5.1 common-send-registration-notification-flow .....	49
5.1.1 logger .....	49

5.1.2 ee:transform .....	50
5.1.2.1 ee:message .....	50
5.1.2.1.1 ee:set-payload .....	50
5.1.3 try .....	51
5.1.3.1 email:send .....	51
5.1.3.1.1 email:body .....	51
5.1.3.1.1.1 email:content .....	51
5.1.3.2 error-handler .....	51
5.1.3.2.1 on-error-continue .....	51
5.1.3.2.1.1 logger .....	52
5.2 common-static-resource-flow .....	52
5.2.1 http:listener .....	52
5.2.2 http:load-static-resource .....	52
5.3 root-redirect-flow .....	52
5.3.1 http:listener .....	52
5.3.2 choice .....	53
5.3.2.1 when .....	53
5.3.2.1.1 set-payload .....	53
5.3.2.2 otherwise .....	53
5.3.2.2.1 set-payload .....	53
5.4 registration-page-flow .....	53
5.4.1 http:listener .....	53
5.4.2 file:read .....	53
5.4.3 set-payload .....	54
5.5 main-page-flow .....	54
5.5.1 http:listener .....	54
5.5.2 set-variable .....	54
5.5.3 set-variable .....	55
5.5.4 set-variable .....	55
5.5.5 file:read .....	55
5.5.6 set-payload .....	55
5.6 user-registration-flow .....	55
5.6.1 http:listener .....	55
5.6.2 set-variable .....	56
5.6.3 set-variable .....	56
5.6.4 set-variable .....	56
5.6.5 set-variable .....	56

5.6.6 set-variable .....	57
5.6.7 set-variable .....	57
5.6.8 set-variable .....	57
5.6.9 set-variable .....	58
5.6.10 os:store .....	58
5.6.10.1 os:value .....	58
5.6.11 async .....	58
5.6.11.1 flow-ref .....	58
5.6.12 ee:transform .....	58
5.6.12.1 ee:message .....	58
5.6.12.1.1 ee:set-payload .....	58
5.7 registration-success-flow .....	59
5.7.1 http:listener .....	59
5.7.2 set-variable .....	59
5.7.3 file:read .....	59
5.7.4 set-variable .....	59
5.7.5 set-payload .....	59
5.8 static-resources-flow .....	60
5.8.1 http:listener .....	60
5.8.2 http:load-static-resource .....	60
5.9 muleguard-root-flow .....	60
5.9.1 http:listener .....	60
5.9.2 set-variable .....	61
5.9.3 choice .....	61
5.9.3.1 when .....	61
5.9.3.1.1 logger .....	61
5.9.3.1.2 os:contains .....	61
5.9.3.1.3 choice .....	61
5.9.3.1.3.1 when .....	61
5.9.3.1.3.1.1 logger .....	61
5.9.3.1.3.1.2 flow-ref .....	61
5.9.3.1.3.2 otherwise .....	62
5.9.3.1.3.2.1 logger .....	62
5.9.3.2 otherwise .....	62
5.9.3.2.1 logger .....	62
5.9.3.2.2 flow-ref .....	62
5.9.4 async .....	62

5.9.4.1 flow-ref .....	63
5.9.5 set-variable .....	63
5.9.6 set-payload .....	63
5.10 send-launch-notification-flow .....	64
5.10.1 os:retrieve .....	64
5.10.1.1 os:default-value .....	64
5.10.2 email:send .....	64
5.10.2.1 email:body .....	64
5.10.2.1.1 email:content .....	64
5.10.3 error-handler .....	64
5.10.3.1 on-error-continue .....	64
5.10.3.1.1 logger .....	64
5.11 main-landing-page-flow .....	65
5.11.1 http:listener .....	65
5.11.1.1 http:response .....	65
5.11.1.1.1 http:headers .....	65
5.11.2 set-variable .....	65
5.11.3 set-variable .....	65
5.11.4 parse-template .....	65
5.12 static-resource-flow .....	66
5.12.1 http:listener .....	66
5.12.1.1 http:response .....	66
5.12.1.1.1 http:headers .....	66
5.12.2 set-variable .....	66
5.12.3 set-variable .....	66
5.12.4 set-payload .....	66
5.13 session-validation-flow .....	67
5.13.1 http:listener .....	67
5.13.2 set-variable .....	67
5.13.3 try .....	67
5.13.3.1 os:retrieve .....	67
5.13.3.2 ee:transform .....	67
5.13.3.2.1 ee:message .....	67
5.13.3.2.1.1 ee:set-payload .....	67
5.13.3.3 error-handler .....	67
5.13.3.3.1 on-error-continue .....	67
5.13.3.3.1.1 ee:transform .....	68

5.13.3.3.1.1.1 ee:message .....	69
5.13.3.3.1.1.1 ee:set-payload .....	69
5.14 validation-trigger-flow .....	69
5.14.1 http:listener .....	69
5.14.2 set-variable .....	69
5.14.3 choice .....	69
5.14.3.1 when .....	69
5.14.3.1.1 logger .....	69
5.14.3.1.2 logger .....	70
5.14.3.1.3 ee:transform .....	70
5.14.3.1.3.1 ee:message .....	70
5.14.3.1.3.1.1 ee:set-payload .....	70
5.14.3.1.4 set-variable .....	70
5.14.3.1.5 set-variable .....	70
5.14.3.1.6 set-variable .....	70
5.14.3.1.7 set-variable .....	71
5.14.3.1.8 set-variable .....	71
5.14.3.1.9 set-variable .....	71
5.14.3.1.10 set-variable .....	71
5.14.3.1.11 set-variable .....	71
5.14.3.1.12 set-variable .....	71
5.14.3.1.13 set-variable .....	71
5.14.3.1.14 set-variable .....	72
5.14.3.1.15 logger .....	72
5.14.3.2 when .....	72
5.14.3.2.1 logger .....	72
5.14.3.2.2 set-variable .....	72
5.14.3.2.3 set-variable .....	72
5.14.3.2.4 set-variable .....	72
5.14.3.2.5 set-variable .....	73
5.14.3.2.6 set-variable .....	73
5.14.3.2.7 set-variable .....	73
5.14.3.3 otherwise .....	73
5.14.3.3.1 logger .....	73
5.14.3.3.2 raise-error .....	73
5.14.4 choice .....	73
5.14.4.1 when .....	73

5.14.4.1.1 logger .....	74
5.14.4.1.2 raise-error .....	75
5.14.4.2 otherwise .....	75
5.14.4.2.1 logger .....	75
5.14.5 choice .....	75
5.14.5.1 when .....	75
5.14.5.1.1 set-variable .....	75
5.14.5.1.2 set-variable .....	75
5.14.5.1.3 choice .....	75
5.14.5.1.3.1 when .....	75
5.14.5.1.3.1.1 set-variable .....	75
5.14.5.1.3.1.2 file:create-directory .....	76
5.14.5.1.3.1.3 file:write .....	76
5.14.5.1.3.1.3.1 file:content .....	76
5.14.5.1.3.1.4 set-variable .....	76
5.14.5.1.3.2 otherwise .....	76
5.14.5.1.3.2.1 set-variable .....	76
5.14.5.2 when .....	76
5.14.5.2.1 choice .....	76
5.14.5.2.1.1 when .....	76
5.14.5.2.1.1.1 set-variable .....	77
5.14.5.2.1.1.2 file:create-directory .....	77
5.14.5.2.1.1.3 set-variable .....	77
5.14.5.2.1.1.4 file:write .....	77
5.14.5.2.1.1.4.1 file:content .....	77
5.14.5.2.1.1.5 file:read .....	77
5.14.5.2.1.1.6 java:invoke-static .....	77
5.14.5.2.1.1.6.1 java:args .....	77
5.14.5.2.1.1.7 set-variable .....	78
5.14.5.2.1.1.8 set-variable .....	78
5.14.5.2.1.1.9 set-variable .....	78
5.14.5.2.1.1.10 logger .....	78
5.14.5.2.1.1.11 choice .....	78
5.14.5.2.1.1.11.1 when .....	78
5.14.5.2.1.1.11.2 otherwise .....	78
5.14.5.2.1.2 otherwise .....	78
5.14.5.2.1.2.1 logger .....	78

5.14.5.2.1.2.2 raise-error .....	80
5.14.5.3 otherwise .....	80
5.14.5.3.1 logger .....	80
5.14.5.3.2 raise-error .....	80
5.14.6 choice .....	80
5.14.6.1 when .....	80
5.14.6.1.1 set-variable .....	80
5.14.6.1.2 set-variable .....	80
5.14.6.2 otherwise .....	80
5.14.6.2.1 set-variable .....	80
5.14.7 java:invoke-static .....	81
5.14.7.1 java:args .....	81
5.14.8 set-variable .....	81
5.14.9 set-variable .....	81
5.14.10 set-variable .....	81
5.14.11 choice .....	81
5.14.11.1 when .....	81
5.14.11.1.1 set-variable .....	81
5.14.11.2 otherwise .....	82
5.14.11.2.1 logger .....	82
5.14.12 logger .....	82
5.14.13 os:store .....	82
5.14.13.1 os:value .....	82
5.14.14 async .....	82
5.14.14.1 flow-ref .....	82
5.14.15 ee:transform .....	82
5.14.15.1 ee:message .....	82
5.14.15.1.1 ee:set-payload .....	82
5.14.16 error-handler .....	83
5.14.16.1 on-error-propagate .....	83
5.14.16.1.1 ee:transform .....	83
5.14.16.1.1.1 ee:message .....	83
5.14.16.1.1.1.1 ee:set-payload .....	83
5.14.16.2 on-error-propagate .....	83
5.14.16.2.1 logger .....	83
5.14.16.2.2 ee:transform .....	83
5.14.16.2.2.1 ee:message .....	83

5.14.16.2.2.1.1 ee:set-payload .....	84
5.15 send-usage-notification-flow .....	85
5.15.1 os:retrieve .....	85
5.15.1.1 os:default-value .....	85
5.15.2 set-variable .....	85
5.15.3 set-variable .....	85
5.15.4 set-variable .....	85
5.15.5 set-variable .....	86
5.15.6 logger .....	86
5.15.7 set-variable .....	86
5.15.8 set-variable .....	86
5.15.9 set-variable .....	86
5.15.10 logger .....	86
5.15.11 set-variable .....	87
5.15.12 java:invoke-static .....	87
5.15.12.1 java:args .....	87
5.15.13 choice .....	87
5.15.13.1 when .....	87
5.15.13.1.1 try .....	87
5.15.13.1.1.1 file:read .....	87
5.15.13.1.1.2 set-variable .....	87
5.15.13.1.1.3 set-variable .....	88
5.15.13.1.1.4 set-variable .....	88
5.15.13.1.1.5 logger .....	88
5.15.13.1.1.6 error-handler .....	88
5.15.13.1.1.6.1 on-error-continue .....	88
5.15.13.1.1.6.1.1 logger .....	88
5.15.13.2 otherwise .....	88
5.15.13.2.1 logger .....	88
5.15.14 choice .....	88
5.15.14.1 when .....	88
5.15.14.1.1 try .....	89
5.15.14.1.1.1 file:read .....	89
5.15.14.1.1.2 set-variable .....	89
5.15.14.1.1.3 set-variable .....	89
5.15.14.1.1.4 set-variable .....	89
5.15.14.1.1.5 logger .....	89

5.15.14.1.1.6 error-handler .....	90
5.15.14.1.1.6.1 on-error-continue .....	90
5.15.14.1.1.6.1.1 logger .....	90
5.15.14.2 otherwise .....	91
5.15.14.2.1 logger .....	91
5.15.15 choice .....	91
5.15.15.1 when .....	91
5.15.15.1.1 logger .....	91
5.15.15.2 otherwise .....	91
5.15.15.2.1 set-variable .....	91
5.15.15.2.2 logger .....	91
5.15.16 ee:transform .....	91
5.15.16.1 ee:message .....	91
5.15.16.1.1 ee:set-payload .....	91
5.15.17 choice .....	92
5.15.17.1 when .....	92
5.15.17.1.1 email:send .....	93
5.15.17.1.1.1 email:body .....	93
5.15.17.1.1.1.1 email:content .....	93
5.15.17.1.1.2 email:attachments .....	93
5.15.17.2 otherwise .....	93
5.15.17.2.1 email:send .....	93
5.15.17.2.1.1 email:body .....	93
5.15.17.2.1.1.1 email:content .....	93
5.15.18 logger .....	94
5.15.19 try .....	94
5.15.19.1 file:delete .....	94
5.15.19.2 logger .....	94
5.15.19.3 error-handler .....	94
5.15.19.3.1 on-error-continue .....	94
5.15.19.3.1.1 logger .....	94
5.15.20 error-handler .....	94
5.15.20.1 on-error-continue .....	94
5.15.20.1.1 logger .....	94
5.16 serve-report-flow .....	95
5.16.1 http:listener .....	95
5.16.2 set-variable .....	95

5.16.3 set-variable .....	96
5.16.4 set-variable .....	96
5.16.5 logger .....	96
5.16.6 os:retrieve .....	96
5.16.7 set-variable .....	96
5.16.8 set-variable .....	97
5.16.9 logger .....	97
5.16.10 set-variable .....	97
5.16.11 file:read .....	97
5.16.12 error-handler .....	97
5.16.12.1 on-error-propagate .....	97
5.16.12.1.1 logger .....	97
5.16.12.1.2 set-payload .....	98
5.16.12.2 on-error-propagate .....	98
5.16.12.2.1 logger .....	98
5.16.12.2.2 set-payload .....	98
5.17 cleanup-workspace-flow .....	98
5.17.1 scheduler .....	98
5.17.1.1 scheduling-strategy .....	98
5.17.1.1.1 cron .....	98
5.17.2 logger .....	98
5.17.3 choice .....	99
5.17.3.1 when .....	99
5.17.3.1.1 set-variable .....	99
5.17.3.1.2 set-variable .....	99
5.17.3.1.3 set-variable .....	99
5.17.3.1.4 set-variable .....	99
5.17.3.1.5 logger .....	99
5.17.3.1.6 file:list .....	99
5.17.3.1.7 foreach .....	100
5.17.3.1.7.1 set-variable .....	100
5.17.3.1.7.2 set-variable .....	100
5.17.3.1.7.3 choice .....	100
5.17.3.1.7.3.1 when .....	100
5.17.3.1.7.3.1.1 logger .....	100
5.17.3.1.7.3.1.2 try .....	100
5.17.3.1.7.3.2 otherwise .....	100

5.17.3.1.7.3.2.1 logger .....	101
5.17.3.1.8 logger .....	101
5.17.3.2 otherwise .....	102
5.17.3.2.1 logger .....	102
5.17.4 error-handler .....	102
5.17.4.1 on-error-continue .....	102
5.17.4.1.1 logger .....	102
5.18 send-registration-notification-flow .....	102
5.18.1 choice .....	102
5.18.1.1 when .....	102
5.18.1.1.1 logger .....	102
5.18.1.1.2 set-variable .....	102
5.18.1.1.3 ee:transform .....	103
5.18.1.1.3.1 ee:message .....	103
5.18.1.1.3.1.1 ee:set-payload .....	103
5.18.1.1.4 email:send .....	104
5.18.1.1.4.1 email:body .....	105
5.18.1.1.4.2 email:attachments .....	105
5.18.1.1.5 logger .....	105
5.18.1.2 otherwise .....	105
5.18.1.2.1 logger .....	105
5.18.2 error-handler .....	105
5.18.2.1 on-error-continue .....	105
5.18.2.1.1 logger .....	105
5.19 raksanalyzer-root-flow .....	105
5.19.1 http:listener .....	106
5.19.2 set-variable .....	106
5.19.3 choice .....	106
5.19.3.1 when .....	106
5.19.3.1.1 logger .....	106
5.19.3.1.2 os:contains .....	106
5.19.3.1.3 choice .....	106
5.19.3.1.3.1 when .....	106
5.19.3.1.3.1.1 logger .....	106
5.19.3.1.3.1.2 flow-ref .....	107
5.19.3.1.3.2 otherwise .....	107
5.19.3.1.3.2.1 logger .....	107

5.19.3.2 otherwise .....	108
5.19.3.2.1 logger .....	108
5.19.3.2.2 flow-ref .....	108
5.19.4 async .....	108
5.19.4.1 flow-ref .....	108
5.19.5 set-variable .....	108
5.19.6 set-payload .....	108
5.20 raks-send-launch-notification-flow .....	109
5.20.1 os:retrieve .....	109
5.20.1.1 os:default-value .....	109
5.20.2 email:send .....	109
5.20.2.1 email:body .....	109
5.20.2.1.1 email:content .....	109
5.20.3 error-handler .....	110
5.20.3.1 on-error-continue .....	110
5.20.3.1.1 logger .....	110
5.21 raksanalyzer-ui-flow .....	110
5.21.1 http:listener .....	110
5.21.1.1 http:response .....	110
5.21.1.1.1 http:headers .....	110
5.21.2 set-variable .....	110
5.21.3 set-variable .....	111
5.21.4 choice .....	111
5.21.4.1 when .....	111
5.21.4.1.1 file:read .....	111
5.21.4.2 when .....	111
5.21.4.2.1 file:read .....	111
5.21.4.3 when .....	111
5.21.4.3.1 set-variable .....	112
5.21.4.3.2 http:request .....	112
5.21.4.3.2.1 http:uri-params .....	112
5.21.4.4 otherwise .....	112
5.21.4.4.1 logger .....	112
5.21.4.4.2 file:read .....	112
5.22 raksanalyzer-api-flow .....	112
5.22.1 http:listener .....	112
5.22.1.1 http:response .....	113

5.22.1.1.1 http:headers .....	114
5.22.2 set-variable .....	114
5.22.3 choice .....	114
5.22.3.1 when .....	114
5.22.3.1.1 set-variable .....	114
5.22.3.1.2 set-variable .....	114
5.22.3.1.3 file:create-directory .....	114
5.22.3.1.4 ee:transform .....	115
5.22.3.1.4.1 ee:message .....	115
5.22.3.1.4.2 ee:variables .....	115
5.22.3.1.4.2.1 ee:set-variable .....	115
5.22.3.1.4.2.2 ee:set-variable .....	115
5.22.3.1.5 file:write .....	115
5.22.3.1.5.1 file:content .....	115
5.22.3.1.6 set-payload .....	115
5.22.3.2 when .....	116
5.22.3.2.1 java:invoke-static .....	116
5.22.3.2.1.1 java:args .....	116
5.22.3.2.2 ee:transform .....	116
5.22.3.2.2.1 ee:message .....	116
5.22.3.2.2.1.1 ee:set-payload .....	116
5.22.3.3 when .....	116
5.22.3.3.1 set-payload .....	117
5.22.3.4 when .....	117
5.22.3.4.1 set-payload .....	117
5.22.3.5 when .....	117
5.22.3.5.1 set-payload .....	117
5.22.3.6 otherwise .....	117
5.22.3.6.1 set-payload .....	117
5.22.3.6.2 set-variable .....	117
6. Mule Sub-Flows .....	118
6.1 create-anonymous-session-subflow .....	118
6.1.1 set-variable .....	118
6.1.2 set-variable .....	118
6.1.3 os:store .....	118
6.1.3.1 os:value .....	118
6.1.4 logger .....	119

6.2 raks-create-anonymous-session-subflow .....	120
6.2.1 set-variable .....	120
6.2.2 set-variable .....	120
6.2.3 os:store .....	120
6.2.3.1 os:value .....	120
6.2.4 logger .....	121
7. DataWeave Files .....	122
8. Other Resources .....	123
9. References .....	126

# 1. Project Information

## 1.1 Project Details

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

## 1.2 POM Details

Path: pom.xml

### 1.2.1 Basic Information

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

### 1.2.2 Properties

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

### 1.2.3 Plugins

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

## 1.2.4 Dependencies

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

## 1.3 Mule-artifact.json

Path: mule-artifact.json

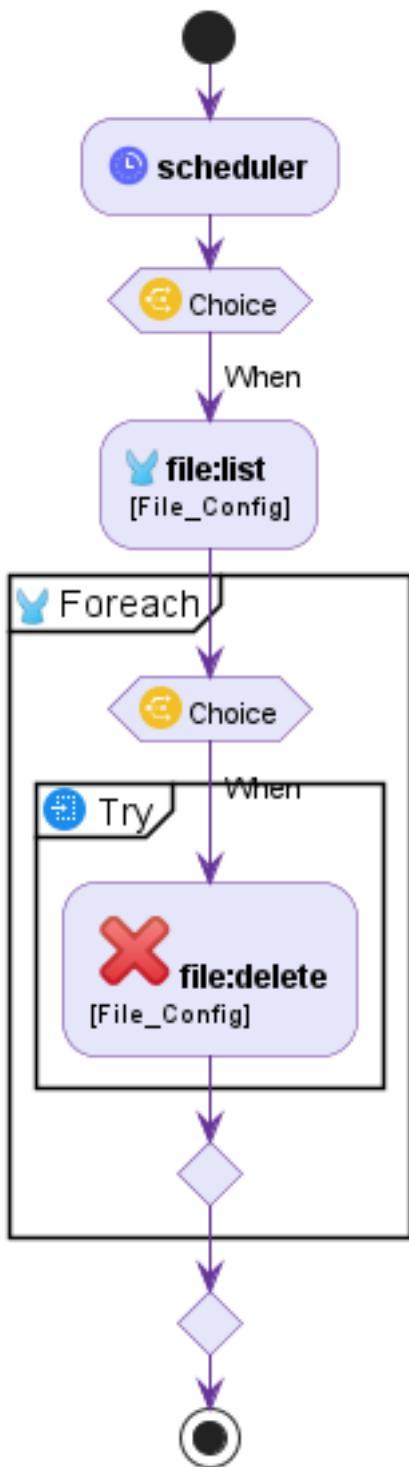
```
{
    "minMuleVersion": "4.9.1",
    "javaSpecificationVersions": [
        "17"
    ],
    "classLoaderModelLoaderDescriptor": {
        "id": "mule",
        "attributes": {
            "exportedPackages": [
                "javax.activation",
                "com.raks.muleguard.wrapper"
     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

## 2. Flow Diagrams

### 2.1 Mule Project Flow Integration

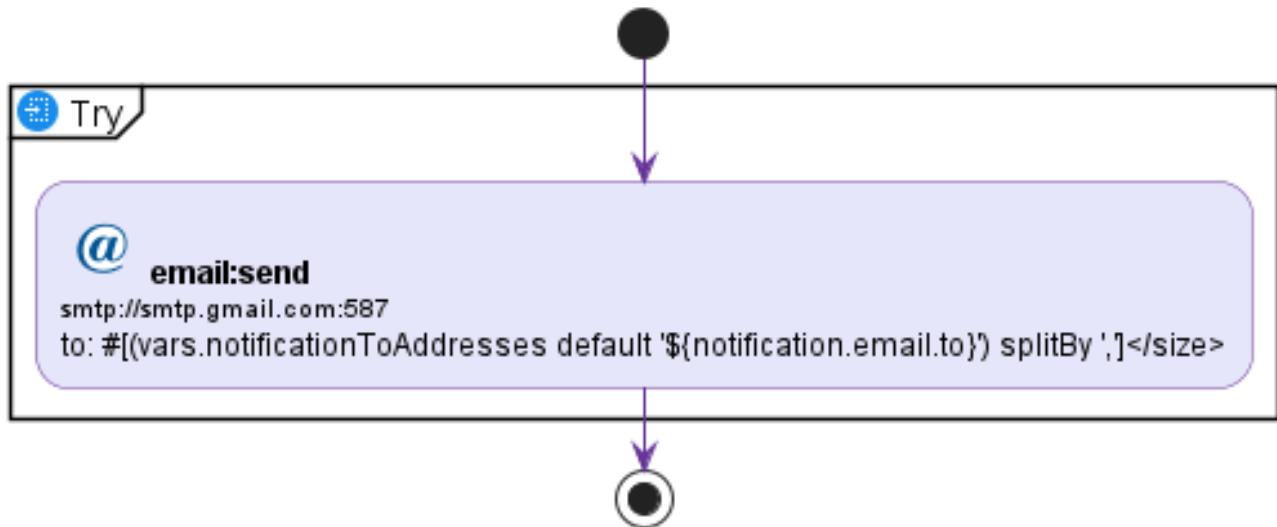
#### 2.1.1 cleanup-workspace-flow

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



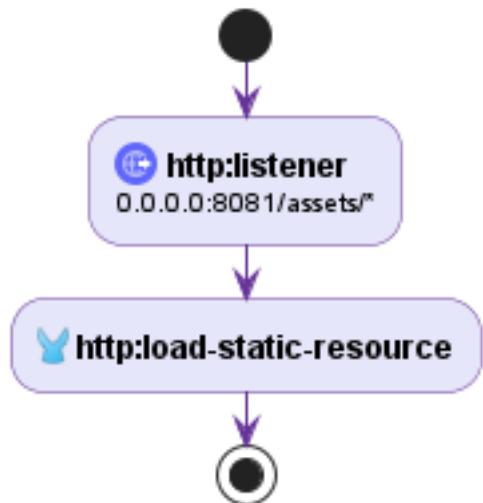
## 2.1.2 common-send-registration-notification-flow

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



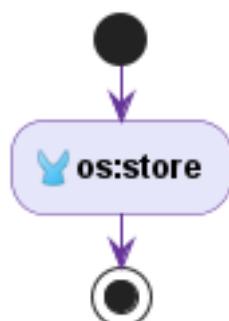
## 2.1.3 common-static-resource-flow

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



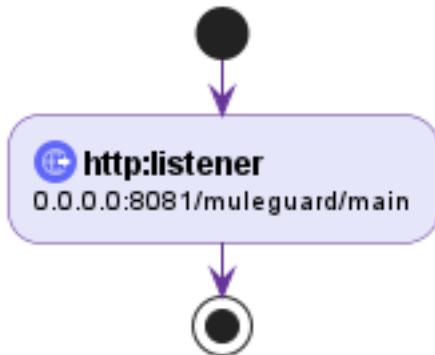
## 2.1.4 create-anonymous-session-subflow

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



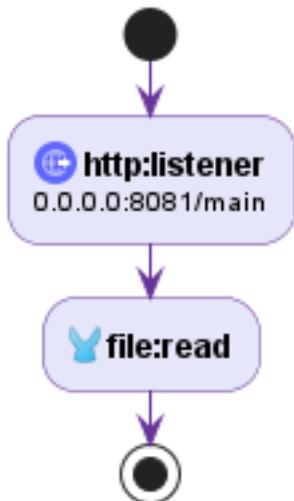
## 2.1.5 main-landing-page-flow

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



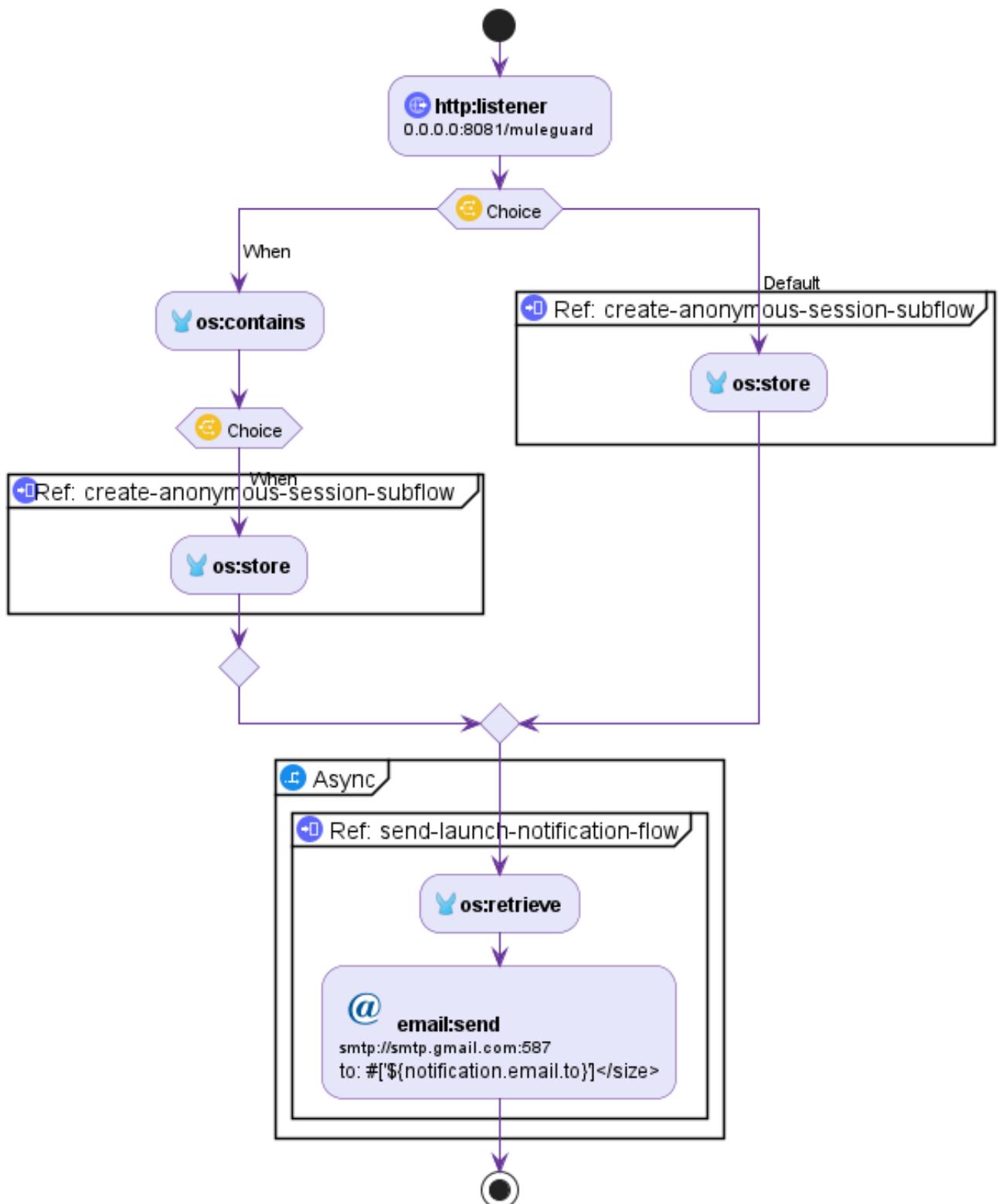
## 2.1.6 main-page-flow

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



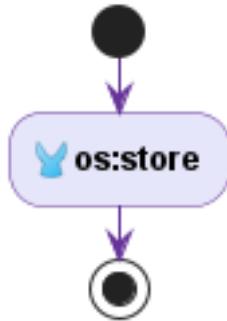
## 2.1.7 muleguard-root-flow

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



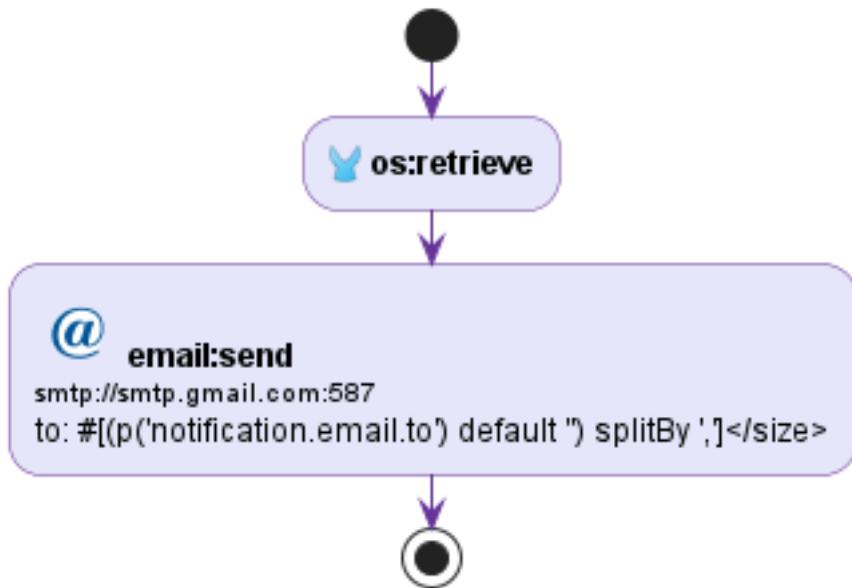
## 2.1.8 raks-create-anonymous-session-subflow

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



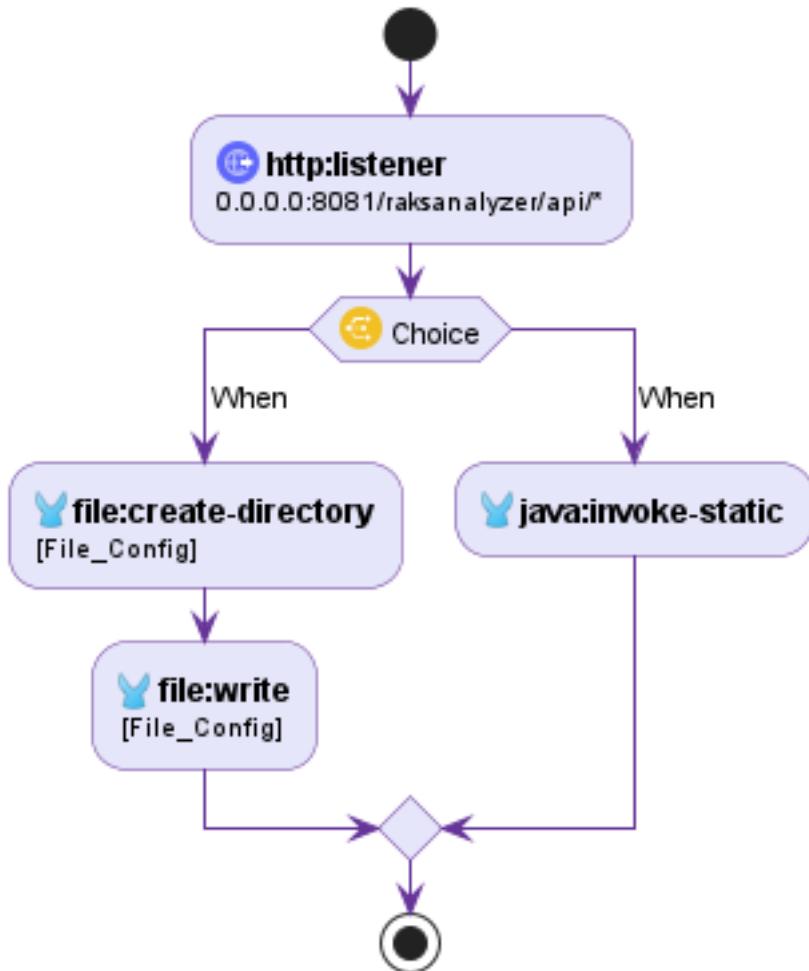
## 2.1.9 raks-send-launch-notification-flow

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



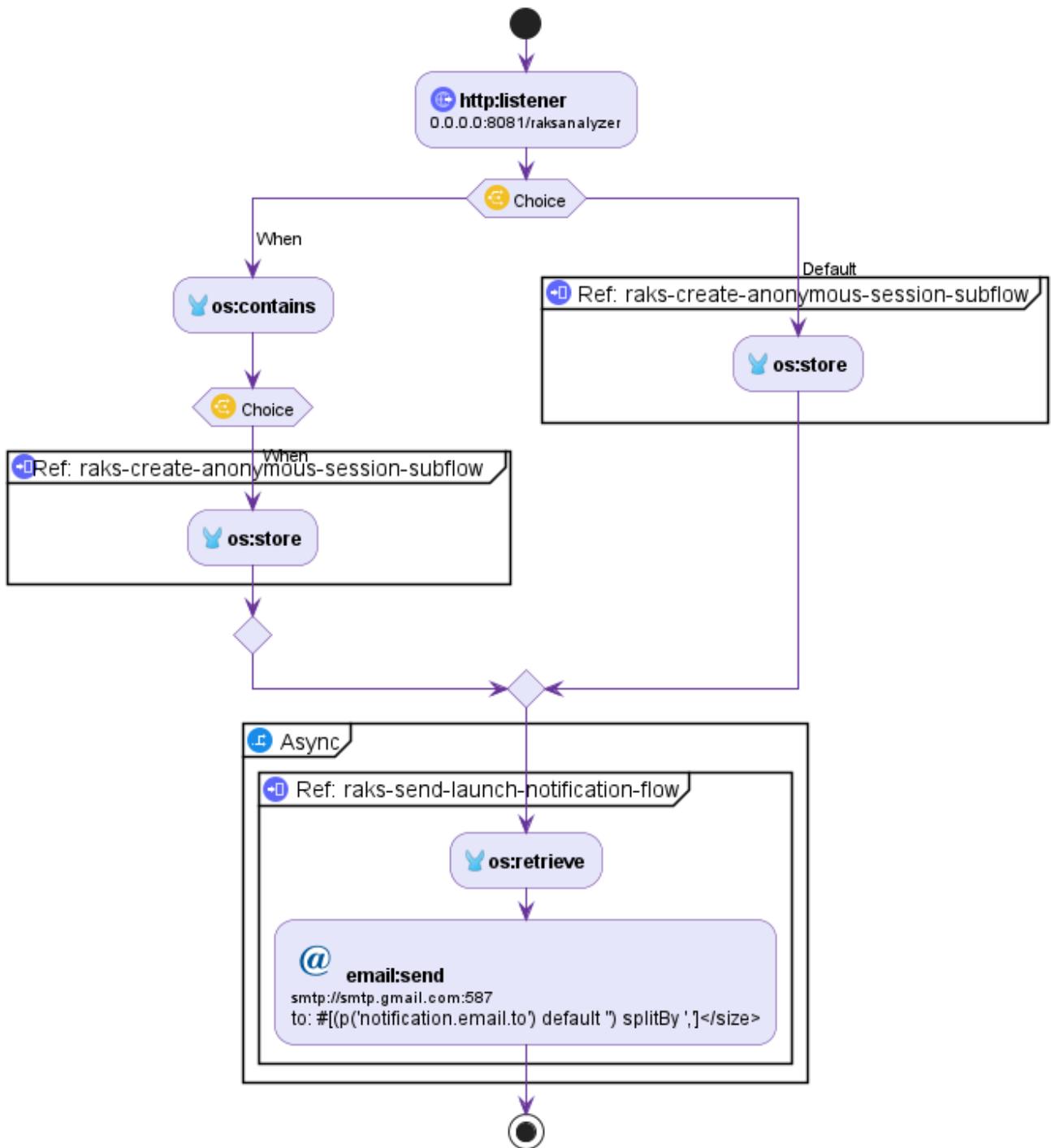
## 2.1.10 raksanalyzer-api-flow

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



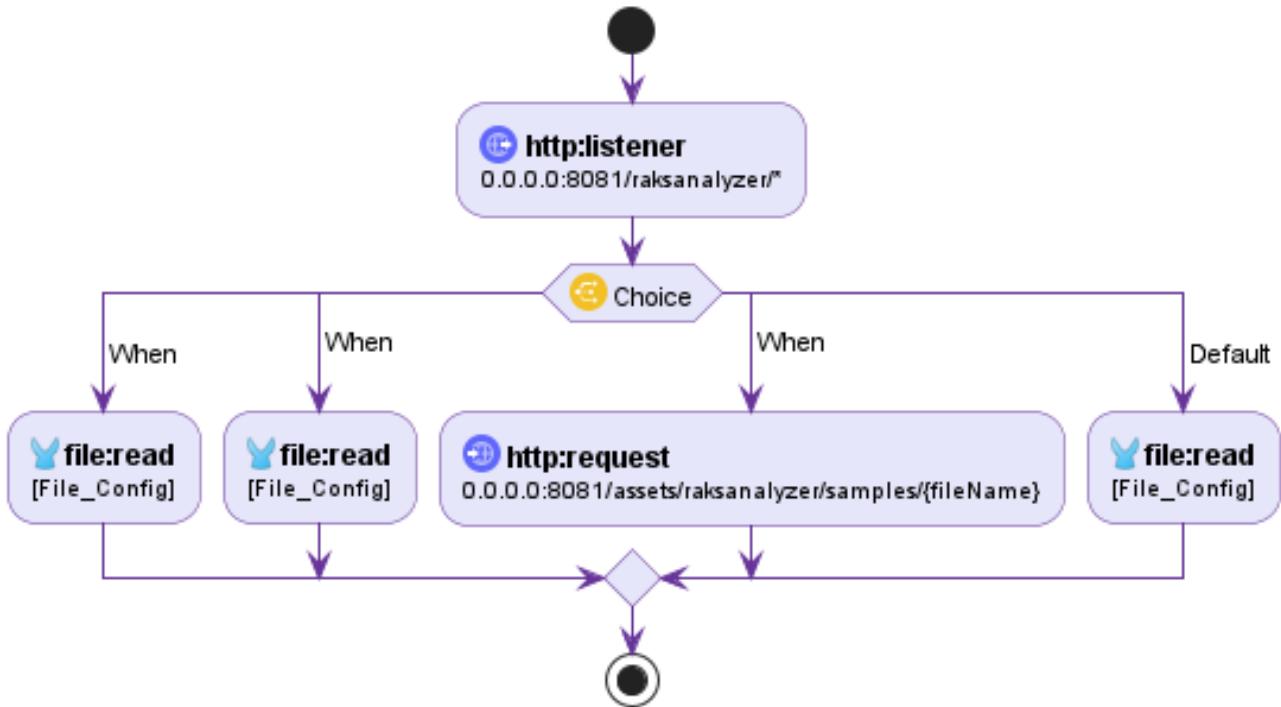
### 2.1.11 raksanalyzer-root-flow

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



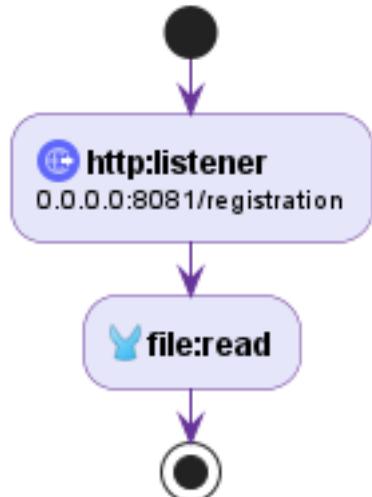
## 2.1.12 raksanalyzer-ui-flow

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



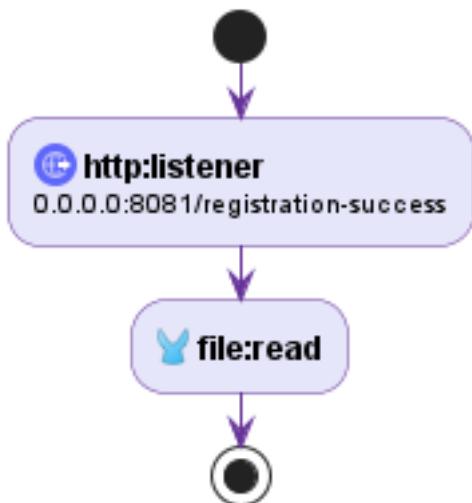
### 2.1.13 registration-page-flow

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



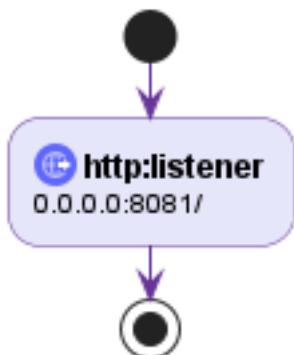
### 2.1.14 registration-success-flow

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



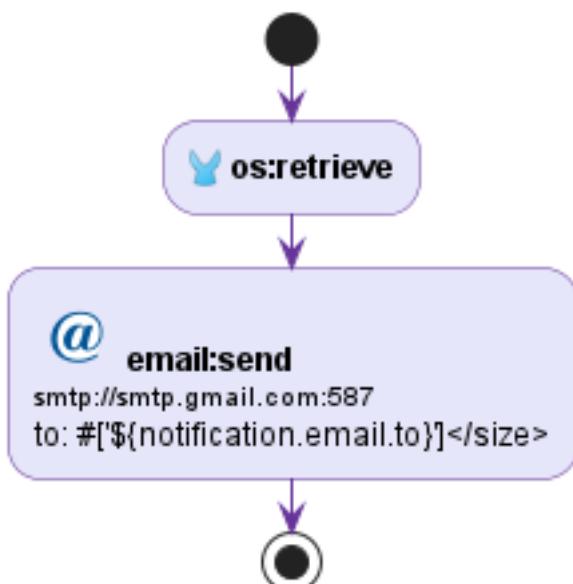
### 2.1.15 root-redirect-flow

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



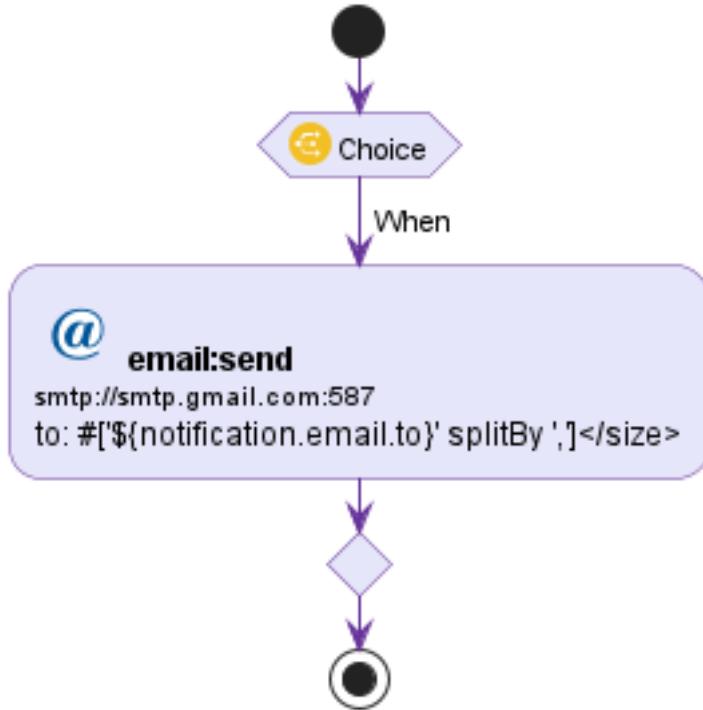
### 2.1.16 send-launch-notification-flow

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



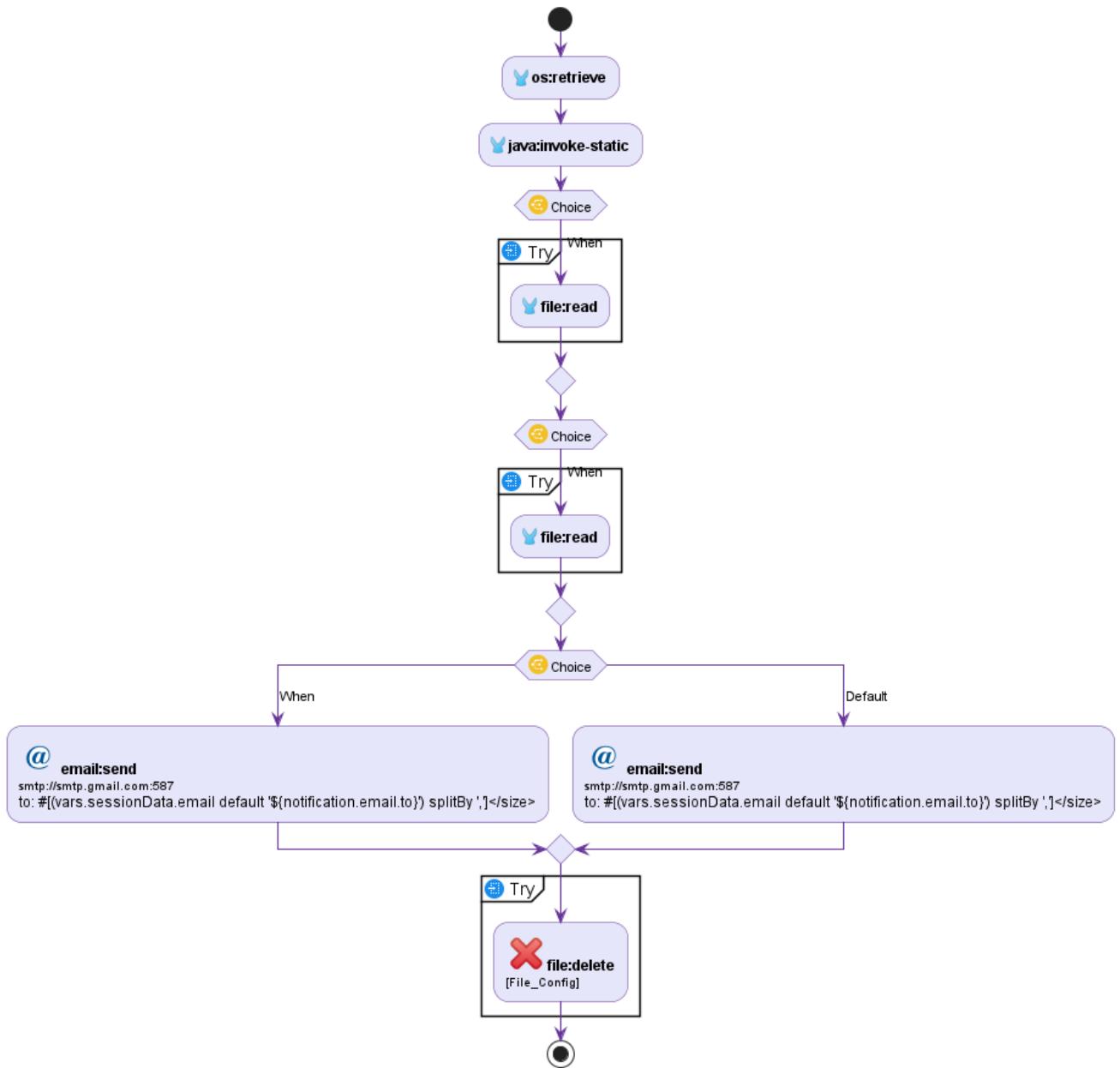
### 2.1.17 send-registration-notification-flow

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



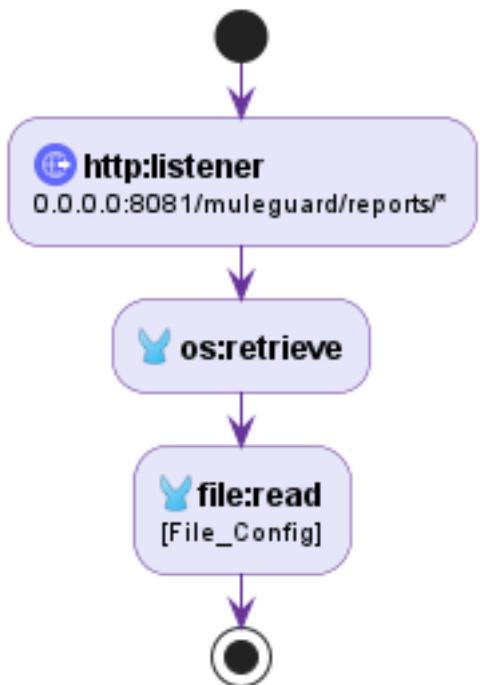
### 2.1.18 send-usage-notification-flow

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



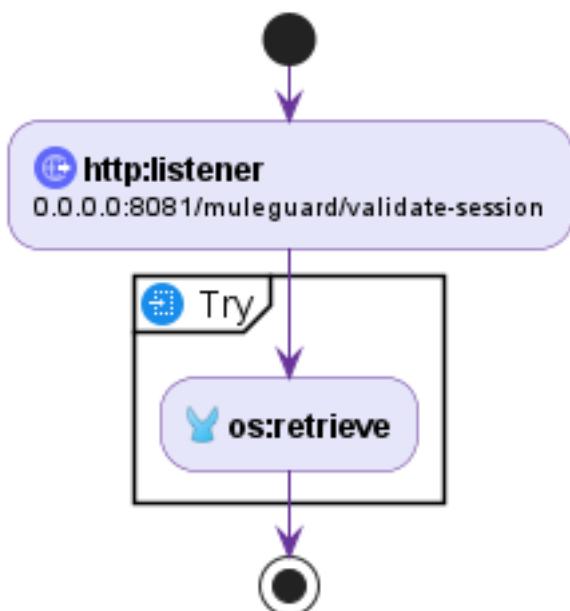
## 2.1.19 serve-report-flow

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



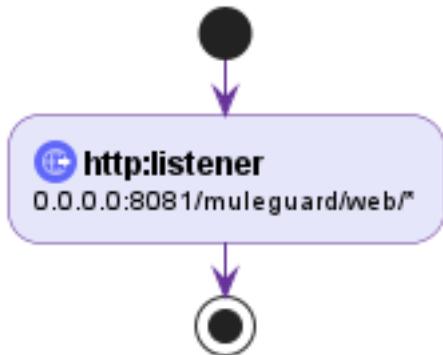
### 2.1.20 session-validation-flow

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



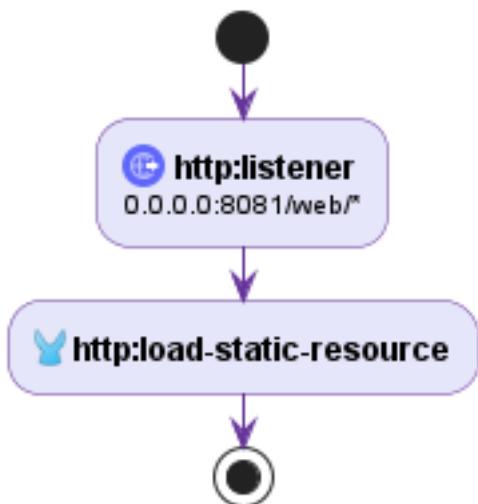
### 2.1.21 static-resource-flow

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



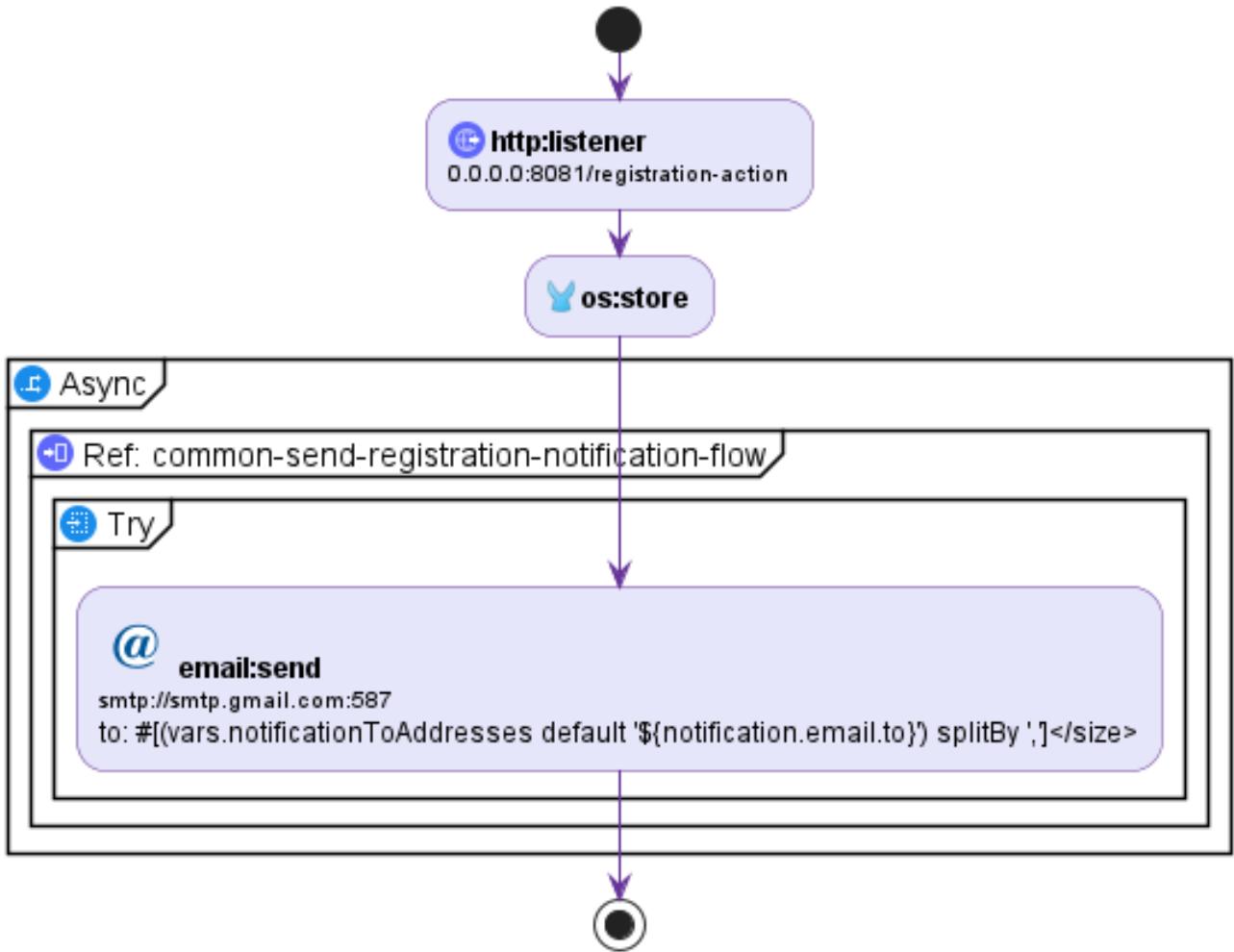
### 2.1.22 static-resources-flow

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



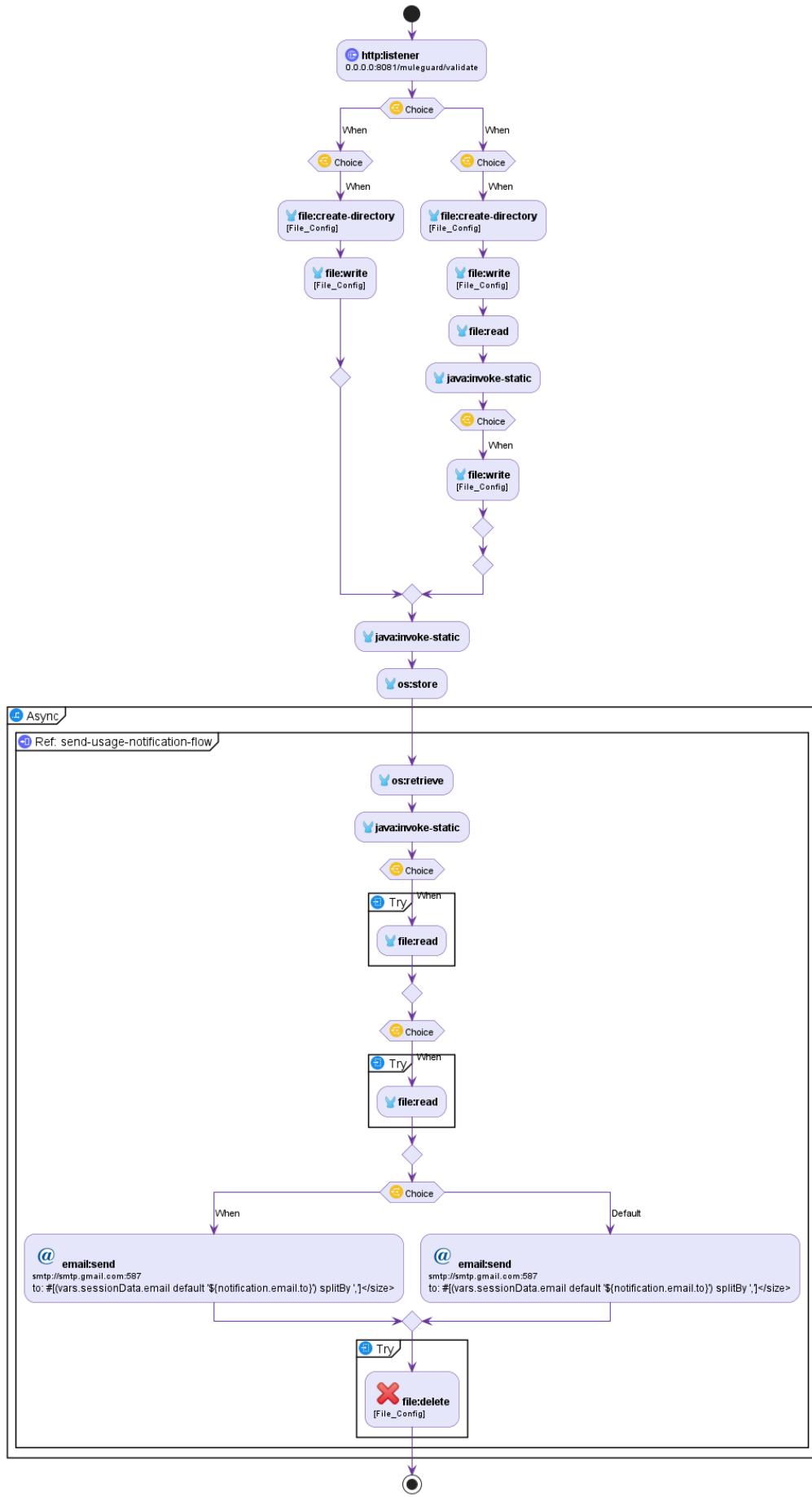
### 2.1.23 user-registration-flow

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



#### 2.1.24 validation-trigger-flow

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

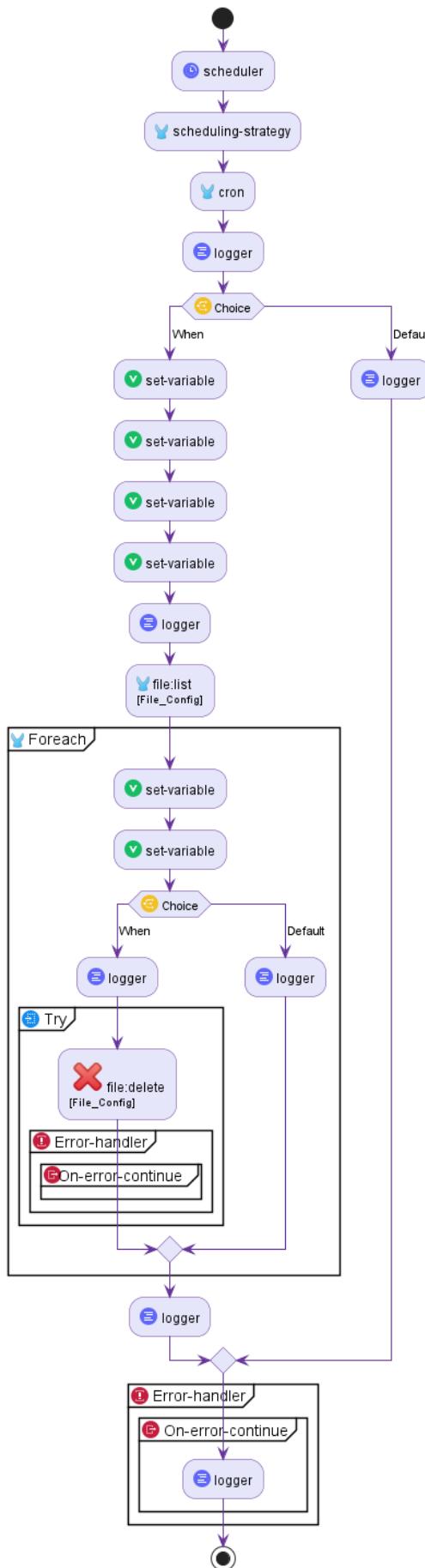


(Diagram scaled to fit page)

## 2.2 Mule Project Flow Diagram

### 2.2.1 cleanup-workspace-flow

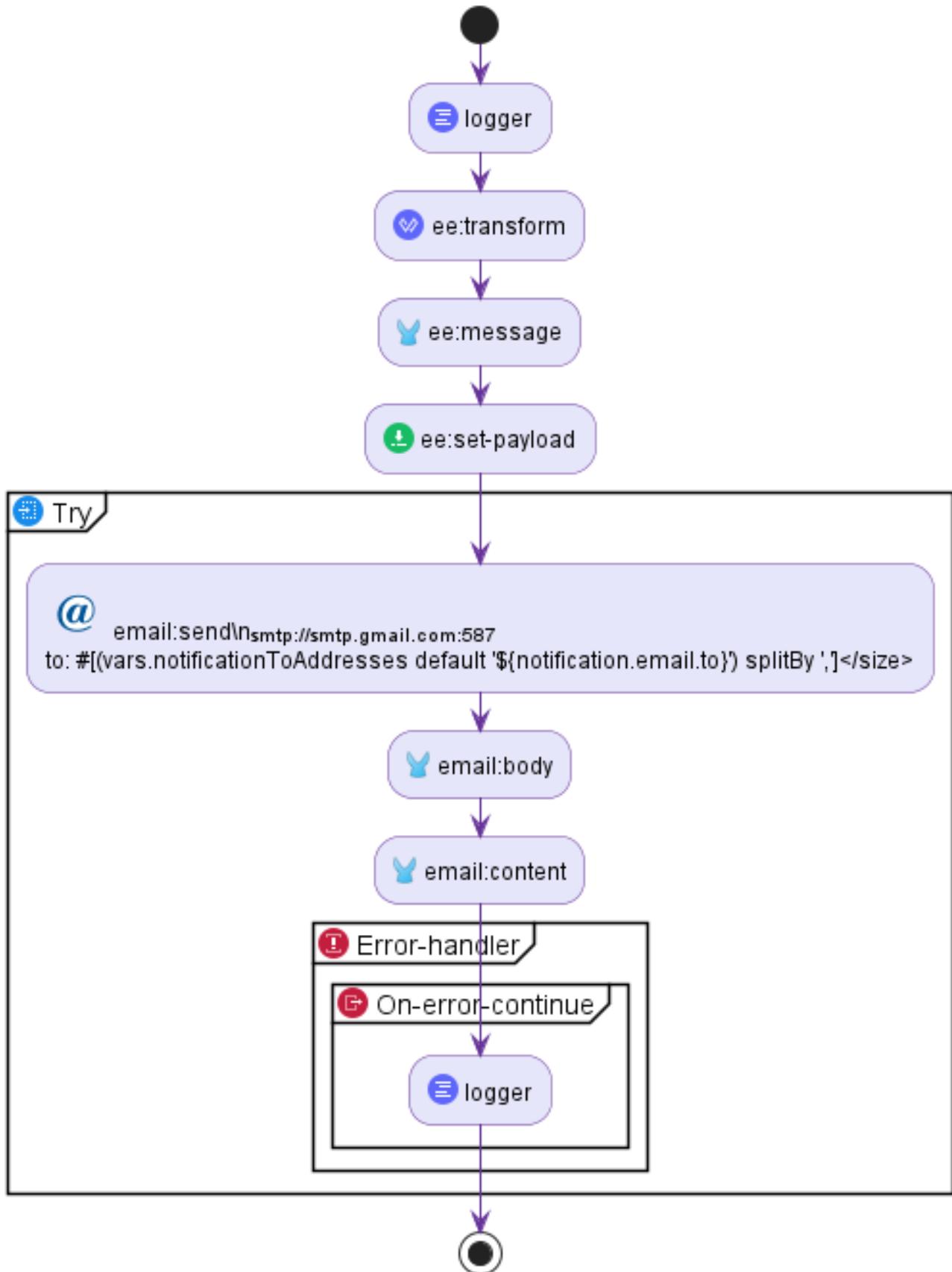
*Path: src\main\mule\muleguard-wrapper.xml*



(Diagram scaled to fit page)

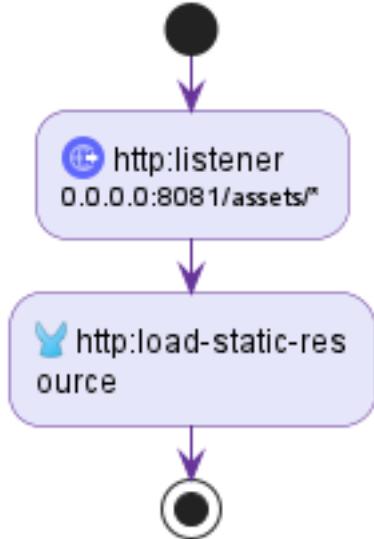
## 2.2.2 common-send-registration-notification-flow

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



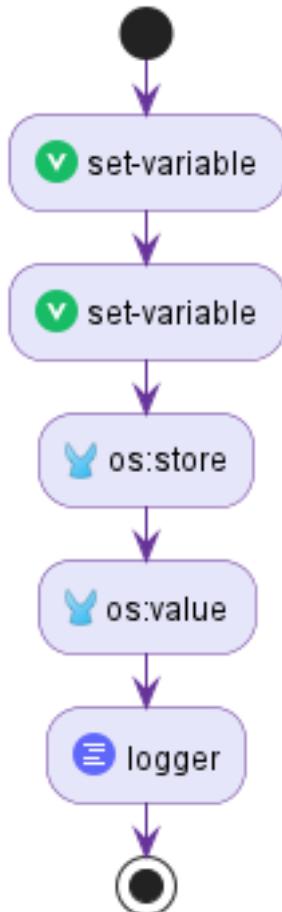
### 2.2.3 common-static-resource-flow

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



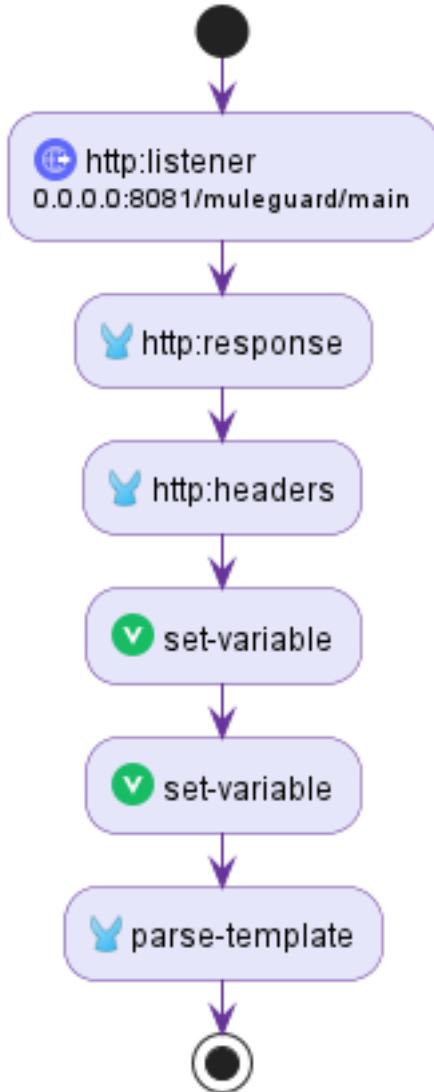
### 2.2.4 create-anonymous-session-subflow

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



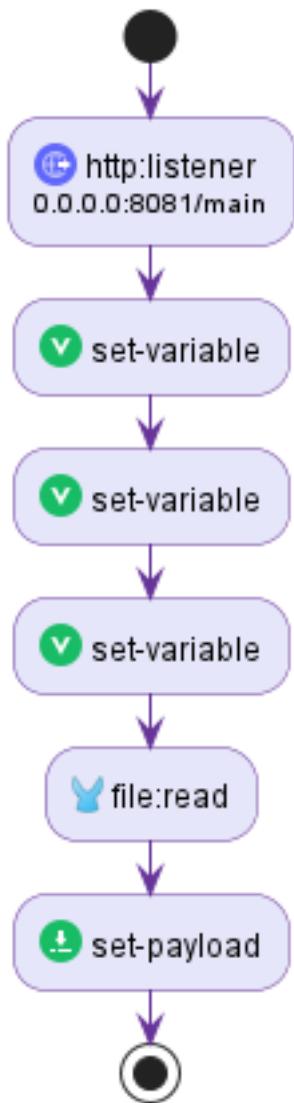
## 2.2.5 main-landing-page-flow

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



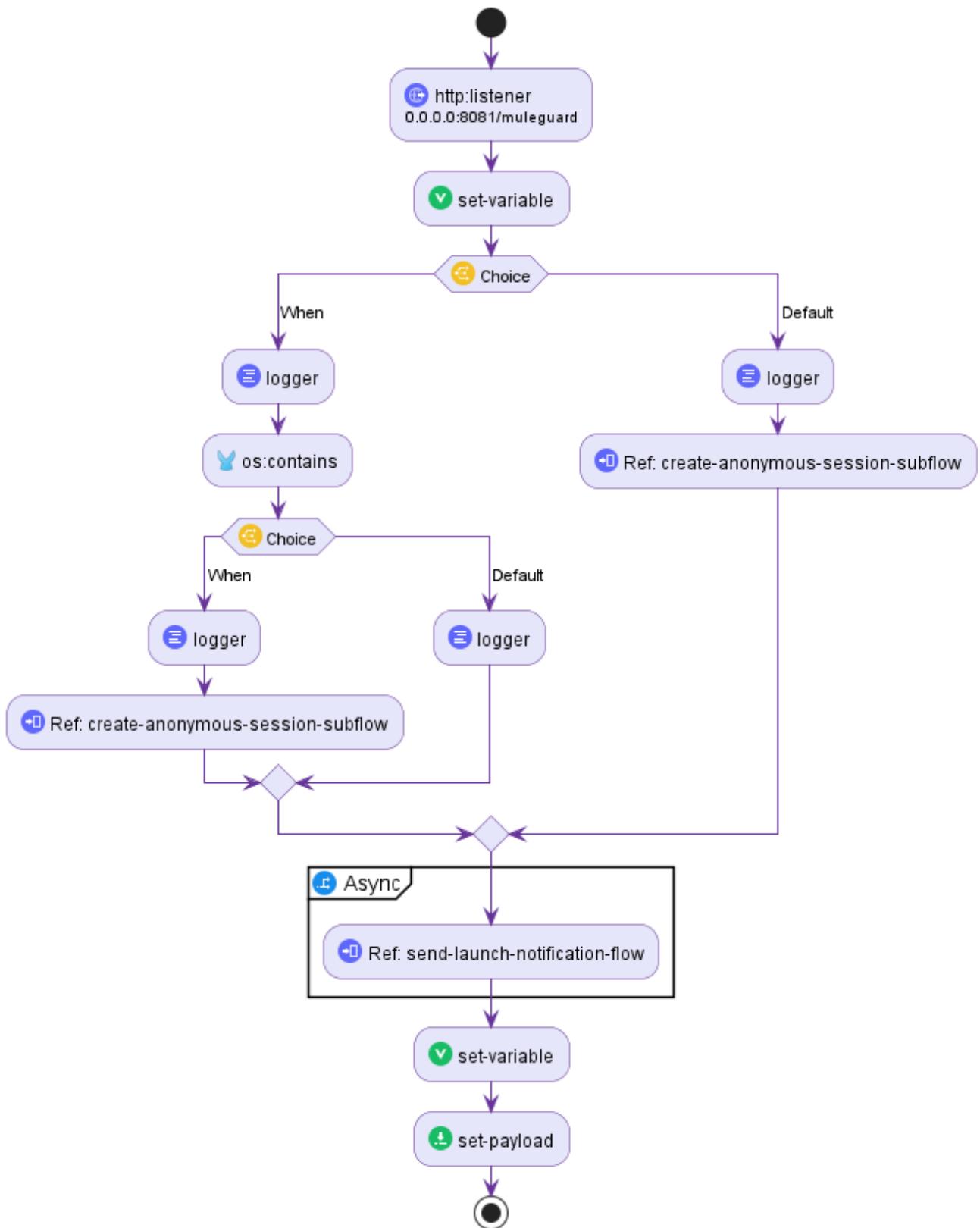
## 2.2.6 main-page-flow

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



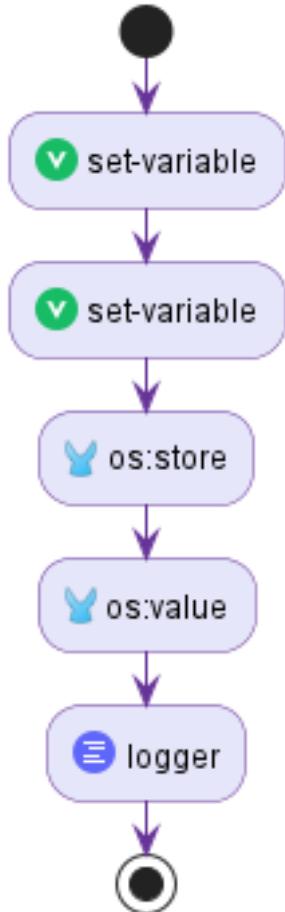
## 2.2.7 muleguard-root-flow

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



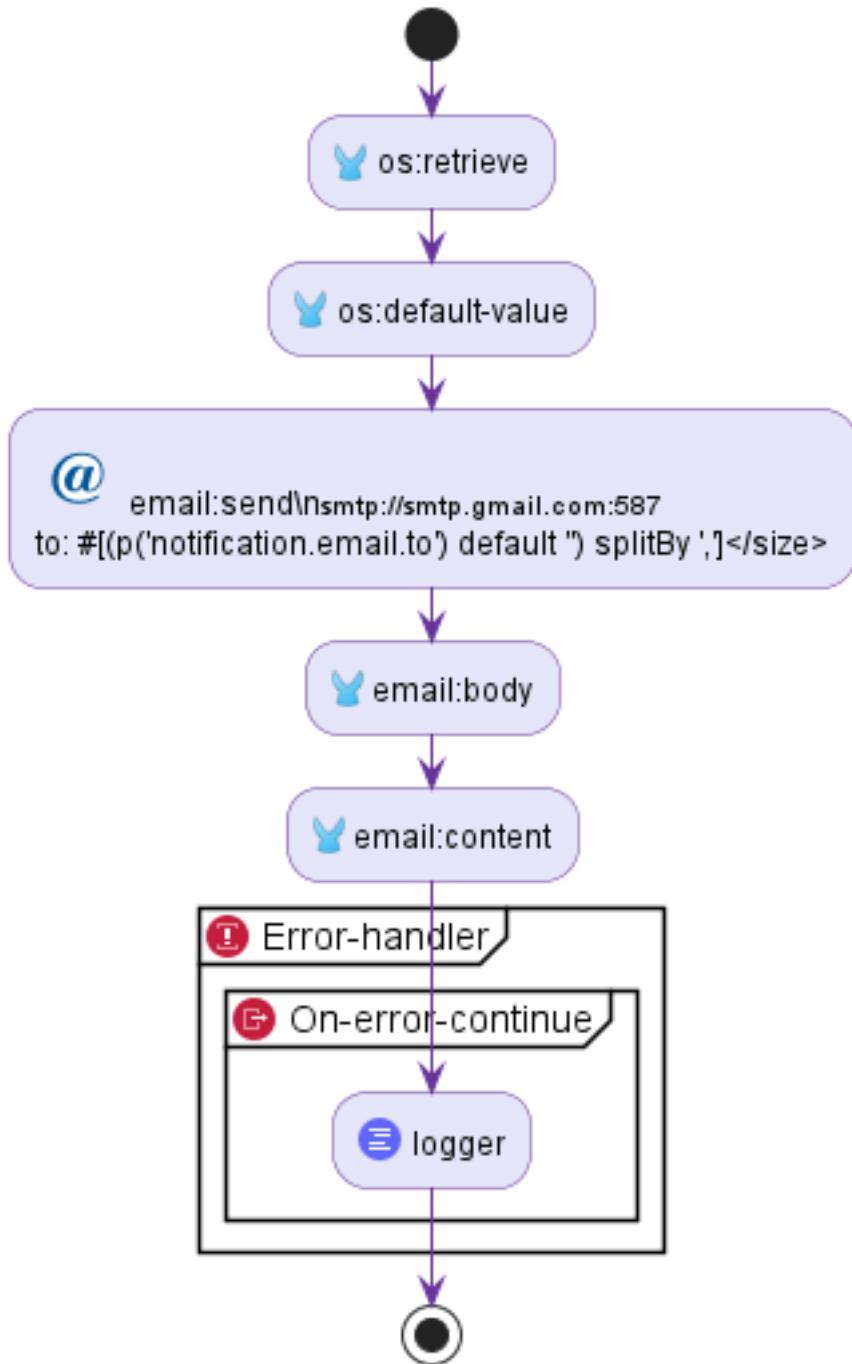
## 2.2.8 raks-create-anonymous-session-subflow

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



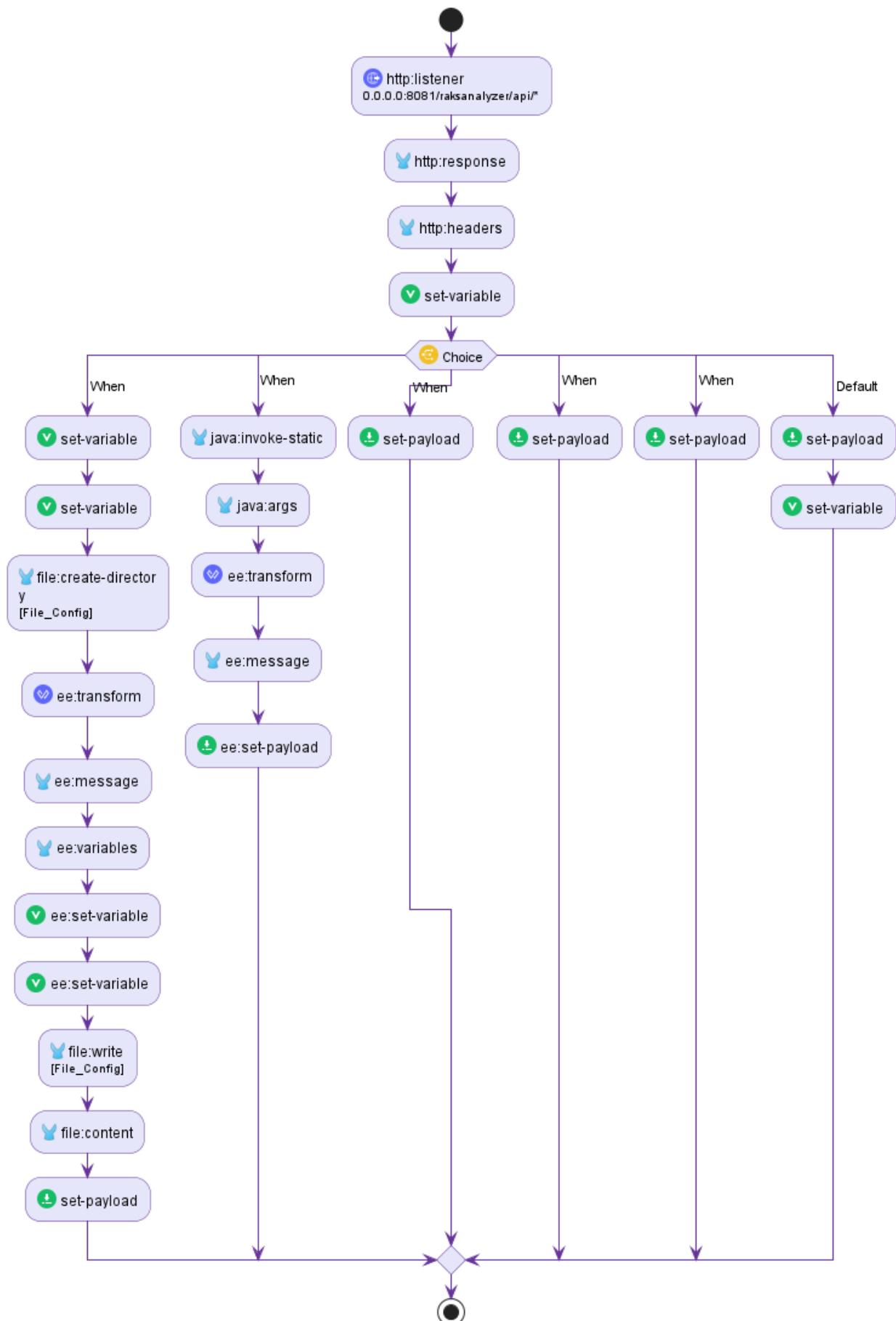
## 2.2.9 raks-send-launch-notification-flow

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



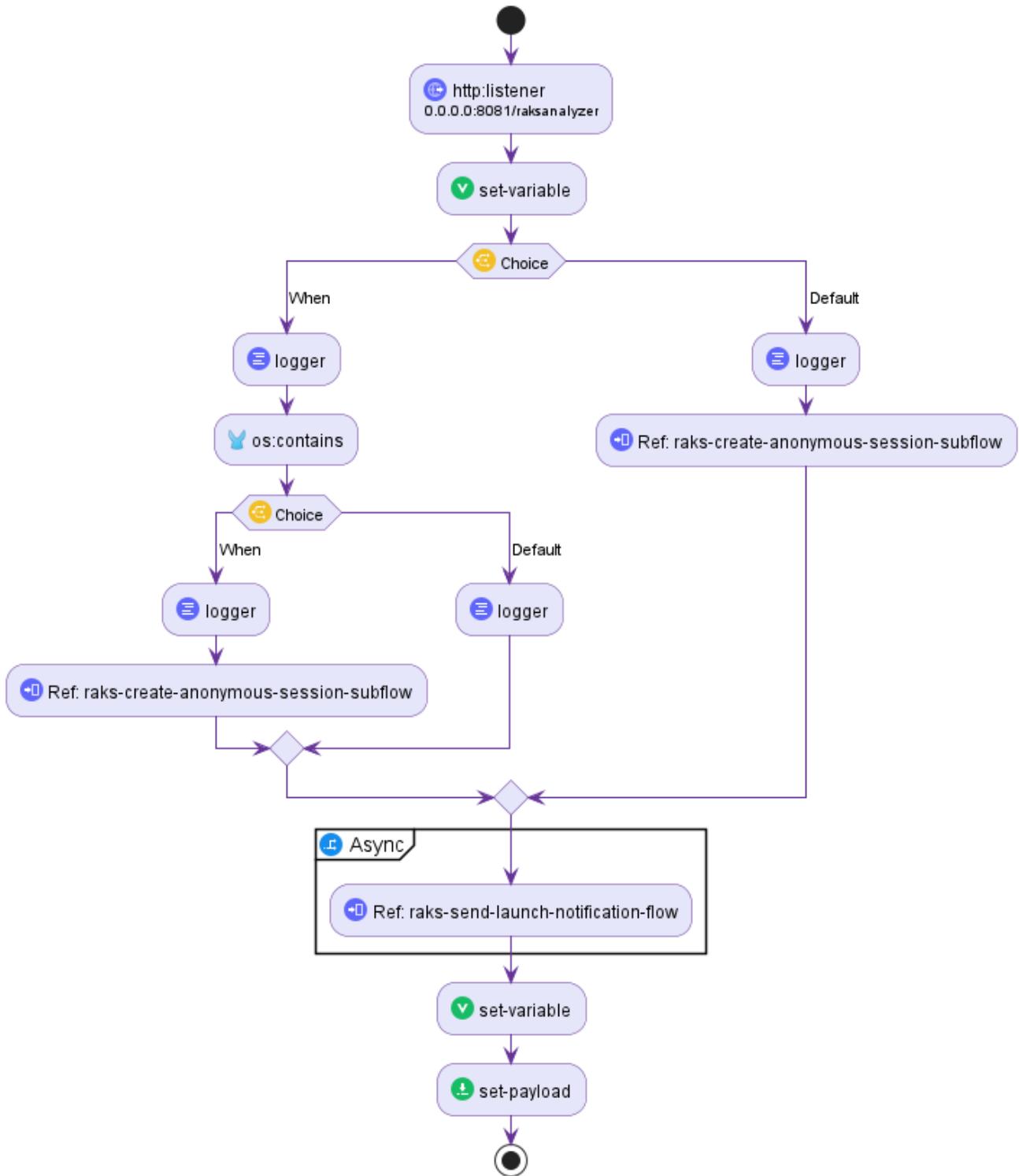
## 2.2.10 raksanalyzer-api-flow

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



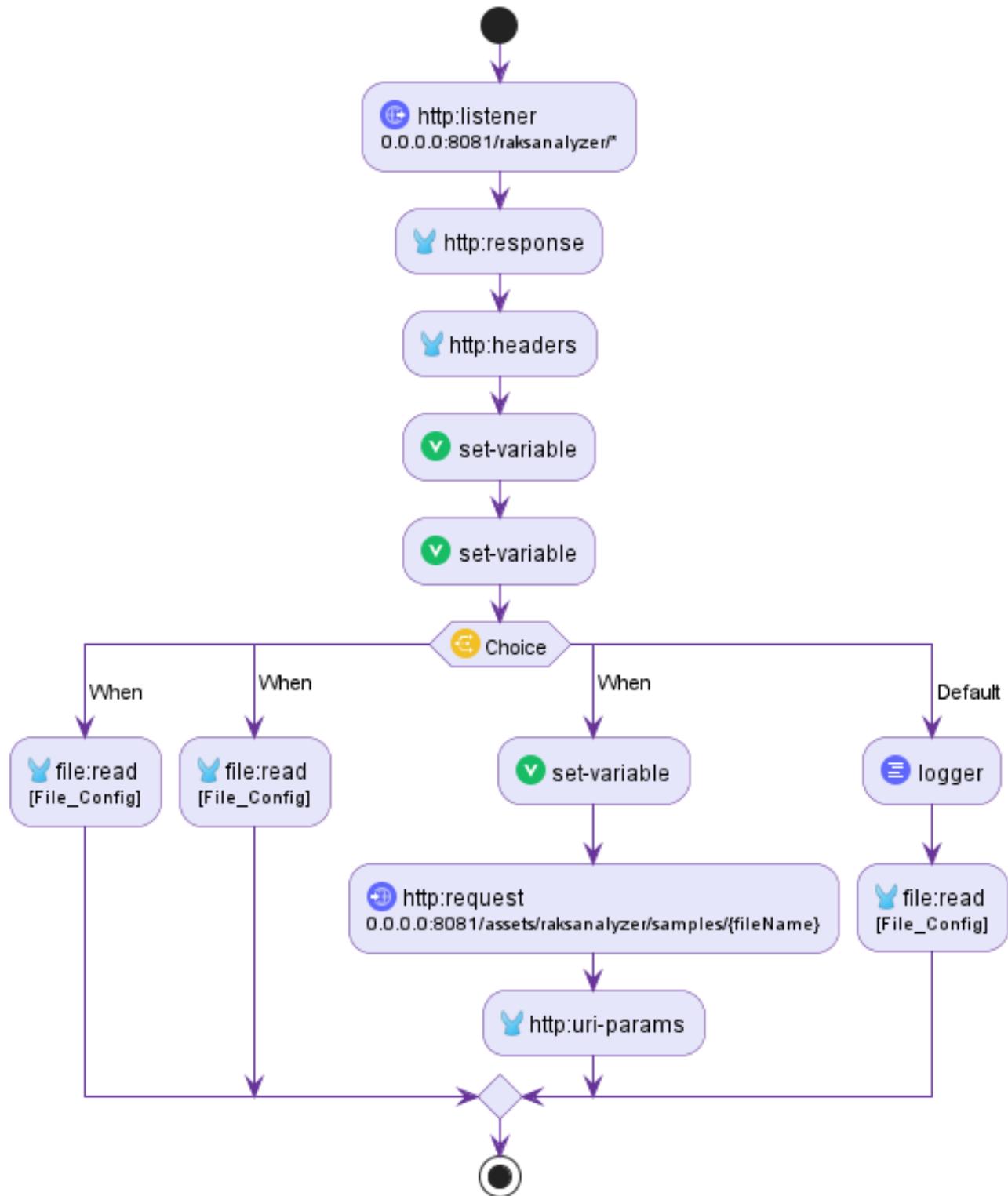
## 2.2.11 raksanalyzer-root-flow

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



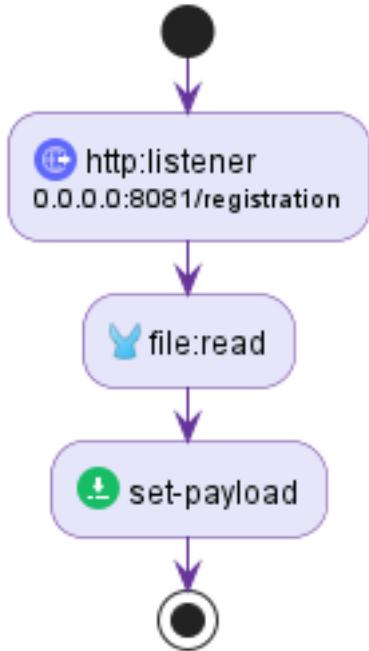
## 2.2.12 raksanalyzer-ui-flow

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



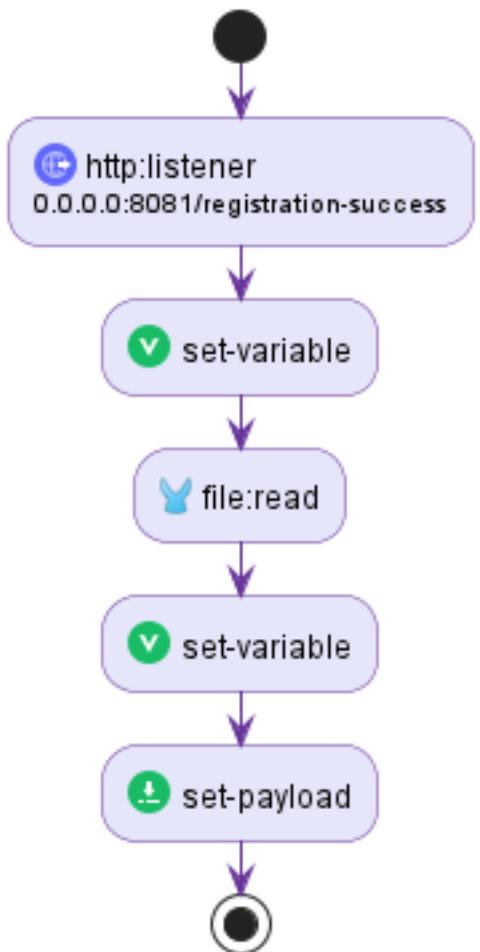
### 2.2.13 registration-page-flow

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



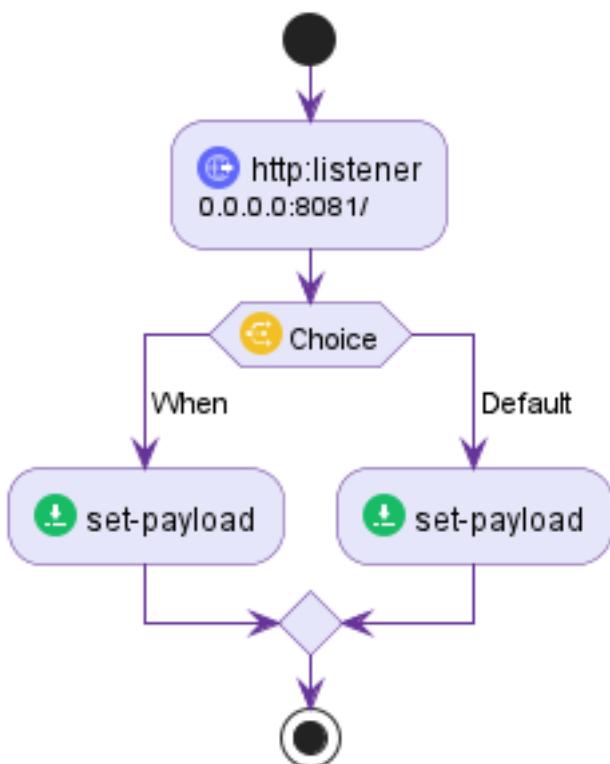
### 2.2.14 registration-success-flow

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



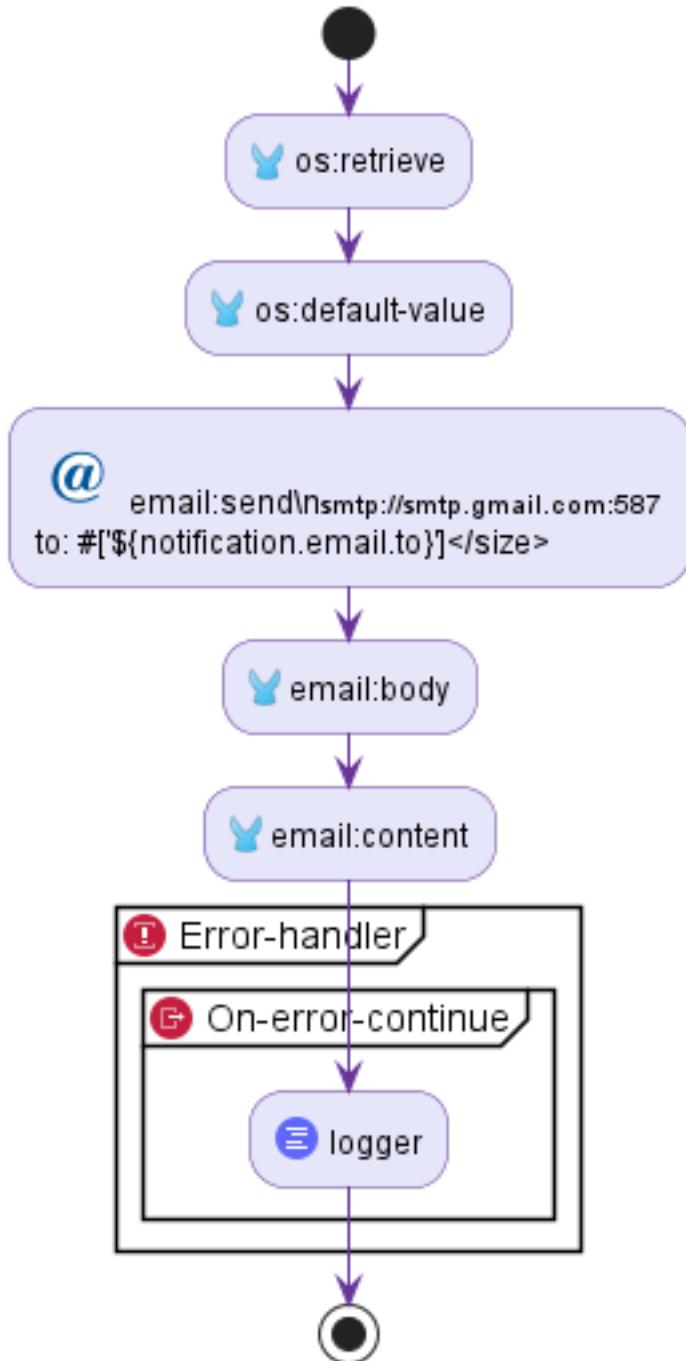
### 2.2.15 root-redirect-flow

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



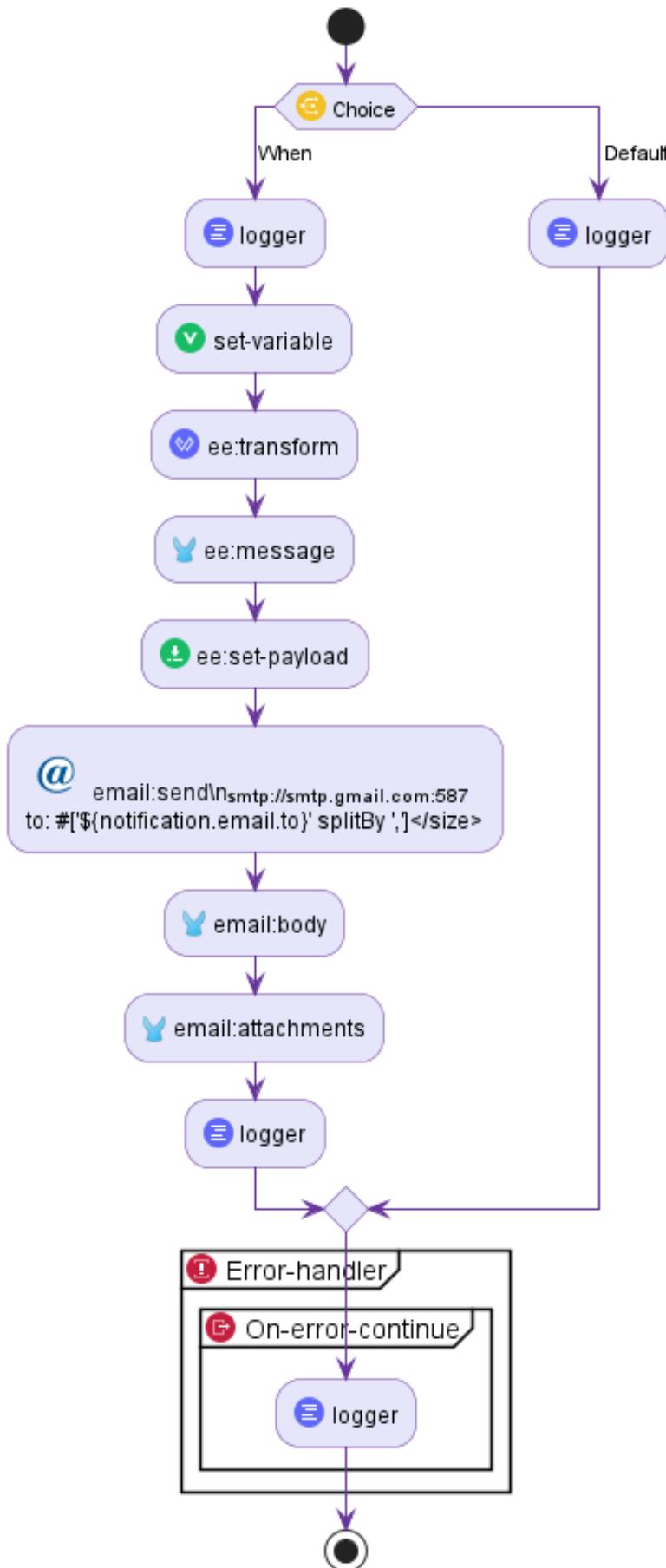
## 2.2.16 send-launch-notification-flow

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



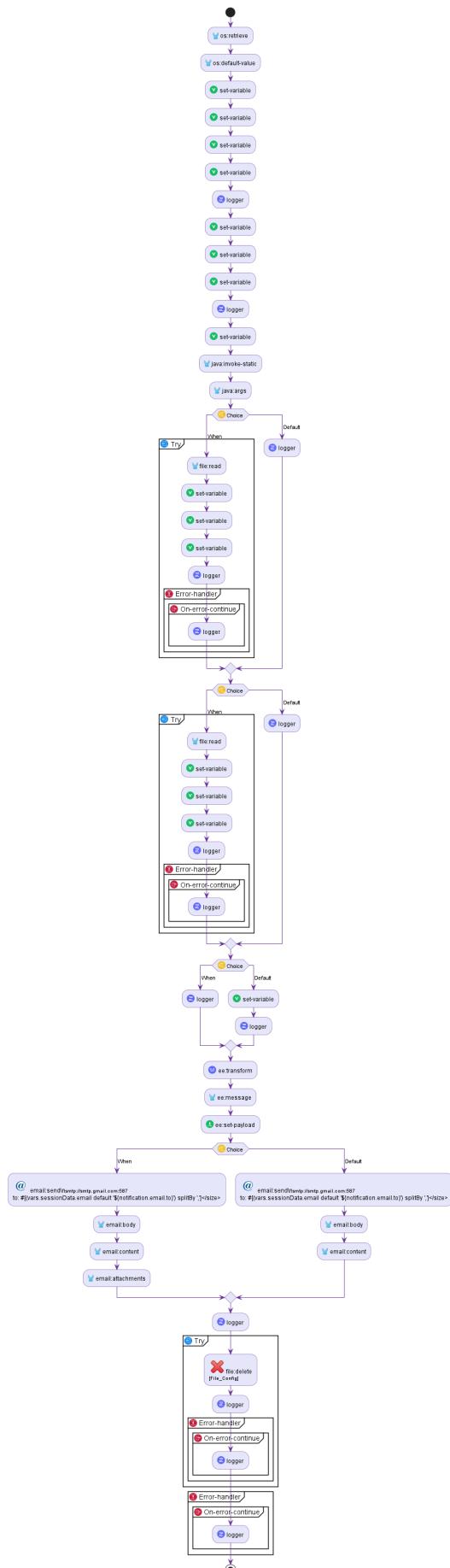
## 2.2.17 send-registration-notification-flow

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



## 2.2.18 send-usage-notification-flow

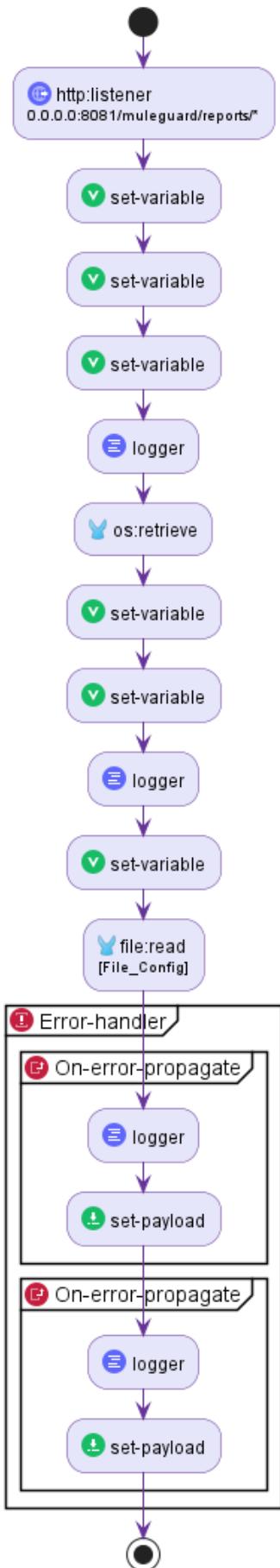
Path: src\main\mule\muleguard-wrapper.xml



(Diagram scaled to fit page)

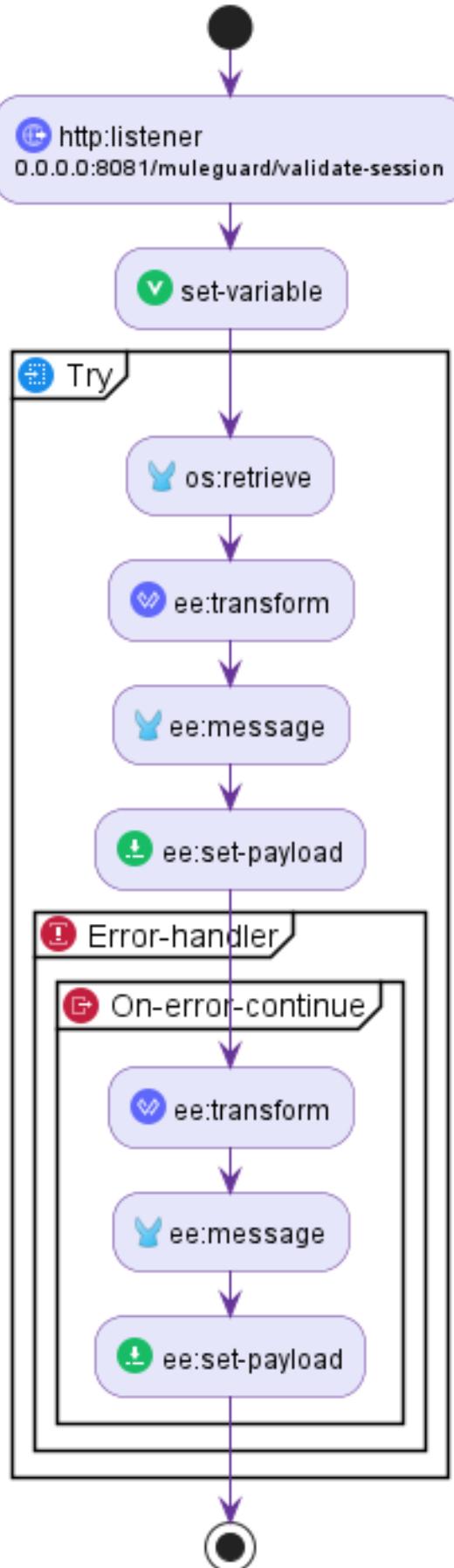
## 2.2.19 serve-report-flow

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



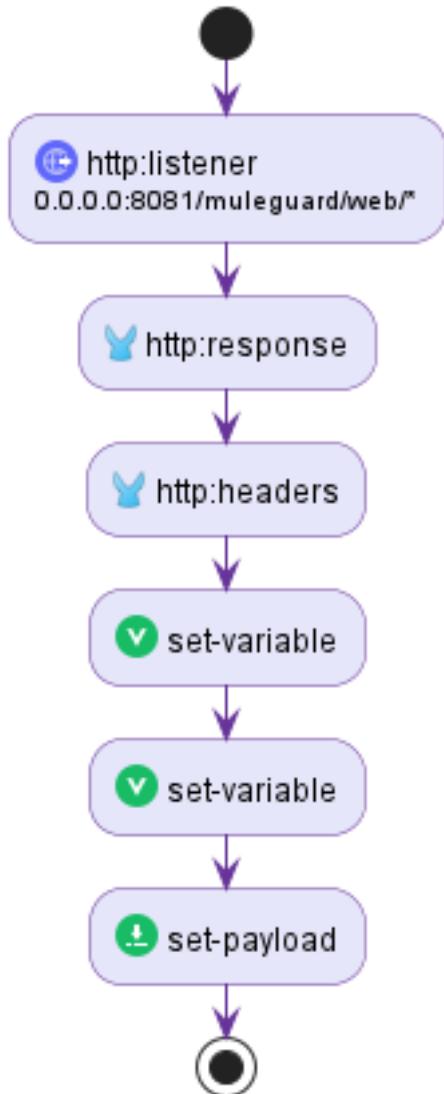
## 2.2.20 session-validation-flow

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



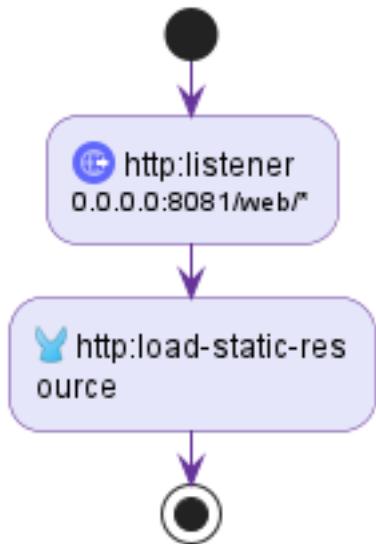
## 2.2.21 static-resource-flow

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



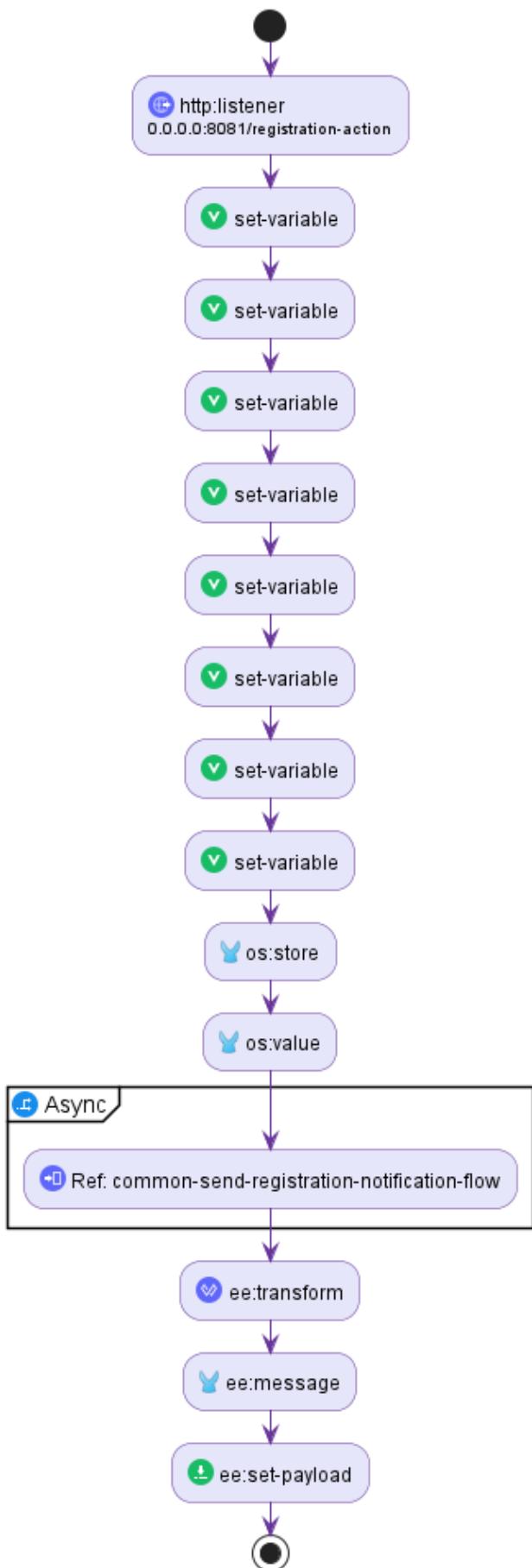
## 2.2.22 static-resources-flow

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



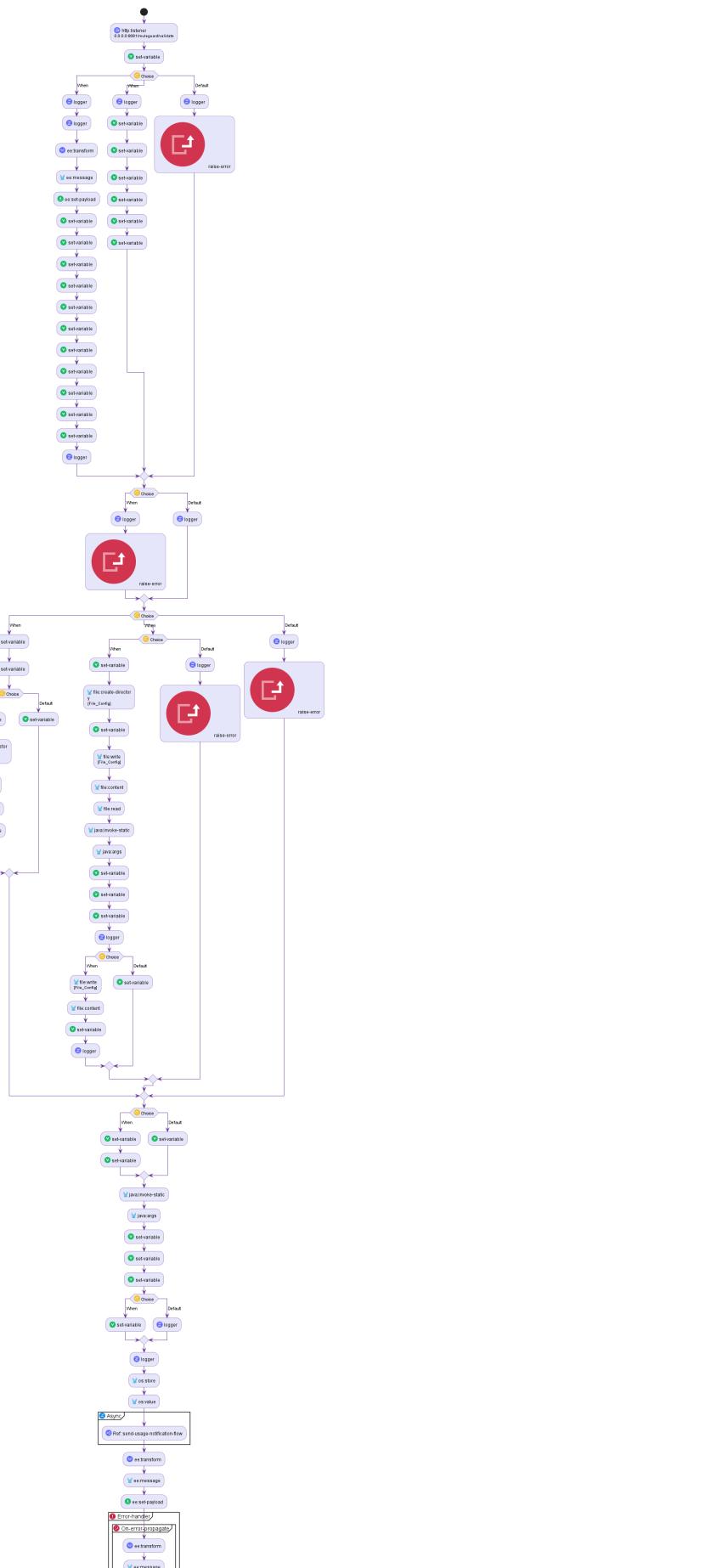
### 2.2.23 user-registration-flow

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



## 2.2.24 validation-trigger-flow

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



(Diagram scaled to fit page)

### 3. Global Configuration

#### Property Files Found: 2

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

Total Properties: 92

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

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

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

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

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

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

## 4. Connector Configurations

Total Configurations: 5

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

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

Attribute	Value
doc:name	Email SMTP
name	Email_SMTp

#### 4.1.1 email:smtp-connection

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

##### 4.1.1.1 email:properties

###### 4.1.1.1.1 email:property

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

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

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

Attribute	Value
doc:name	File Config
name	File_Config

#### 4.2.1 file:connection

Attribute	Value
workingDir	\${mule.home}

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

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

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

#### 4.3.1 http:listener-connection

Attribute	Value
port	8081
host	0.0.0.0

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

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

Attribute	Value
name	ObjectStore_Config

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

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

Attribute	Value
doc:name	Self HTTP Request configuration
name	Self_HTTP_Request_Config

#### 4.5.1 http:request-connection

Attribute	Value
port	8081
host	0.0.0.0

## 5. Mule Flows

Total Flows: 22

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

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

Type: flow

Components: 11

#### 5.1.1 logger

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

#### 5.1.2 ee:transform

Attribute	Value
doc:name	Prepare Reg Email Body

##### 5.1.2.1 ee:message

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

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

### 5.1.3 try

Attribute	Value
doc:name	Try Send Email

#### 5.1.3.1 email:send

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

##### 5.1.3.1.1 email:body

Attribute	Value
contentType	text/html

##### 5.1.3.1.1.1 email:content

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

#### 5.1.3.2 error-handler

##### 5.1.3.2.1 on-error-continue

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

#### 5.1.3.2.1.1 logger

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

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

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

Type: flow

Components: 2

#### 5.2.1 http:listener

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

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

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

### 5.3. root-redirect-flow

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

Type: flow

Components: 6

#### 5.3.1 http:listener

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

## 5.3.2 choice

### 5.3.2.1 when

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

#### 5.3.2.1.1 set-payload

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

### 5.3.2.2 otherwise

#### 5.3.2.2.1 set-payload

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

## 5.4. registration-page-flow

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

Type: flow

Components: 3

### 5.4.1 http:listener

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

### 5.4.2 file:read

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

#### 5.4.3 set-payload

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

#### 5.5. main-page-flow

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

Type: flow

Components: 6

##### 5.5.1 http:listener

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

##### 5.5.2 set-variable

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

### 5.5.3 set-variable

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

### 5.5.4 set-variable

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

### 5.5.5 file:read

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

### 5.5.6 set-payload

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

## 5.6. user-registration-flow

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

Type: flow

Components: 16

### 5.6.1 http:listener

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

## 5.6.2 set-variable

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

## 5.6.3 set-variable

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

## 5.6.4 set-variable

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

## 5.6.5 set-variable

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

## 5.6.6 set-variable

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

## 5.6.7 set-variable

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

## 5.6.8 set-variable

Attribute	Value
variableName	currentTool
value	Portal Registration

### 5.6.9 set-variable

Attribute	Value
variableName	sessionId
value	#[uuid()]

### 5.6.10 os:store

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

### 5.6.10.1 os:value

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

### 5.6.11 async

#### 5.6.11.1 flow-ref

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

### 5.6.12 ee:transform

#### 5.6.12.1 ee:message

##### 5.6.12.1.1 ee:set-payload

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

## 5.7. registration-success-flow

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

Type: flow

Components: 5

### 5.7.1 http:listener

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

### 5.7.2 set-variable

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

### 5.7.3 file:read

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

### 5.7.4 set-variable

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

### 5.7.5 set-payload

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

## 5.8. static-resources-flow

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

Type: flow

Components: 2

### 5.8.1 http:listener

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

### 5.8.2 http:load-static-resource

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

## 5.9. muleguard-root-flow

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

Type: flow

Components: 19

### 5.9.1 http:listener

Attribute	Value
path	/muleguard
config-ref	HTTP_Listener_config
allowedMethods	GET

## 5.9.2 set-variable

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

## 5.9.3 choice

### 5.9.3.1 when

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

#### 5.9.3.1.1 logger

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

#### 5.9.3.1.2 os:contains

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

#### 5.9.3.1.3 choice

##### 5.9.3.1.3.1 when

Attribute	Value
expression	#![vars.sessionExists]

##### 5.9.3.1.3.1.1 logger

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

##### 5.9.3.1.3.1.2 flow-ref

Attribute	Value
name	create-anonymous-session-subflow

### 5.9.3.1.3.2 otherwise

#### 5.9.3.1.3.2.1 logger

Attribute	Value
level	DEBUG
message	Session valid.

### 5.9.3.2 otherwise

#### 5.9.3.2.1 logger

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

#### 5.9.3.2.2 flow-ref

Attribute	Value
name	create-anonymous-session-subflow

### 5.9.4 async

#### 5.9.4.1 flow-ref

Attribute	Value
name	send-launch-notification-flow

### 5.9.5 set-variable

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

### 5.9.6 set-payload

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

## 5.10. send-launch-notification-flow

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

Type: flow

Components: 8

### 5.10.1 os:retrieve

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

#### 5.10.1.1 os:default-value

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

### 5.10.2 email:send

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

#### 5.10.2.1 email:body

Attribute	Value
contentType	text/html

#### 5.10.2.1.1 email:content

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

### 5.10.3 error-handler

#### 5.10.3.1 on-error-continue

##### 5.10.3.1.1 logger

Attribute	Value
level	WARN
message	Failed to send launch notification

## 5.11. main-landing-page-flow

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

Type: flow

Components: 6

### 5.11.1 http:listener

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

#### 5.11.1.1 http:response

##### 5.11.1.1.1 http:headers

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

### 5.11.2 set-variable

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

### 5.11.3 set-variable

Attribute	Value
variableName	registrationRequired
value	#{registration.required}

### 5.11.4 parse-template

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

## 5.12. static-resource-flow

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

Type: flow

Components: 6

### 5.12.1 http:listener

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

#### 5.12.1.1 http:response

##### 5.12.1.1.1 http:headers

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

### 5.12.2 set-variable

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

### 5.12.3 set-variable

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

### 5.12.4 set-payload

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

## 5.13. session-validation-flow

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

Type: flow

Components: 12

### 5.13.1 http:listener

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

### 5.13.2 set-variable

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

### 5.13.3 try

#### 5.13.3.1 os:retrieve

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

#### 5.13.3.2 ee:transform

##### 5.13.3.2.1 ee:message

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

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

#### 5.13.3.3 error-handler

##### 5.13.3.3.1 on-error-continue

Attribute	Value
type	OS:KEY_NOT_FOUND

#### 5.13.3.3.1.1 ee:transform

##### 5.13.3.3.1.1.1 ee:message

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

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

#### 5.14. validation-trigger-flow

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

Type: flow

Components: 114

##### 5.14.1 http:listener

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

##### 5.14.2 set-variable

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

##### 5.14.3 choice

###### 5.14.3.1 when

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

###### 5.14.3.1.1 logger

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

#### 5.14.3.1.2 logger

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

#### 5.14.3.1.3 ee:transform

##### 5.14.3.1.3.1 ee:message

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

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

#### 5.14.3.1.4 set-variable

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

#### 5.14.3.1.5 set-variable

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

#### 5.14.3.1.6 set-variable

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

#### 5.14.3.1.7 set-variable

Attribute	Value
variableName	zipFileContent
value	#[payload.zipFileContent]

#### 5.14.3.1.8 set-variable

Attribute	Value
variableName	zipFilename
value	#[payload.zipFilename]

#### 5.14.3.1.9 set-variable

Attribute	Value
variableName	customRulesContent
value	#[payload.customRulesContent]

#### 5.14.3.1.10 set-variable

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

#### 5.14.3.1.11 set-variable

Attribute	Value
variableName	isMultipart
value	#[true]

#### 5.14.3.1.12 set-variable

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

#### 5.14.3.1.13 set-variable

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

#### 5.14.3.1.14 set-variable

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

#### 5.14.3.1.15 logger

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

#### 5.14.3.2 when

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

#### 5.14.3.2.1 logger

Attribute	Value
level	INFO
message	Processing application/json request

#### 5.14.3.2.2 set-variable

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

#### 5.14.3.2.3 set-variable

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

#### 5.14.3.2.4 set-variable

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

#### 5.14.3.2.5 set-variable

Attribute	Value
variableName	zipFileContent
value	#[null]

#### 5.14.3.2.6 set-variable

Attribute	Value
variableName	customRulesContent
value	#[null]

#### 5.14.3.2.7 set-variable

Attribute	Value
variableName	isMultipart
value	#[false]

#### 5.14.3.3 otherwise

##### 5.14.3.3.1 logger

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

##### 5.14.3.3.2 raise-error

Attribute	Value
description	Unsupported content type
type	MULEGUARD:UNSUPPORTED_CONTENT_TYPE

#### 5.14.4 choice

##### 5.14.4.1 when

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

##### 5.14.4.1.1 logger

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

#### 5.14.4.1.2 raise-error

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

#### 5.14.4.2 otherwise

##### 5.14.4.2.1 logger

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

#### 5.14.5 choice

##### 5.14.5.1 when

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

##### 5.14.5.1.1 set-variable

Attribute	Value
variableName	projectPath
value	#[vars.pathContent]

##### 5.14.5.1.2 set-variable

Attribute	Value
variableName	displayPath
value	#[vars.pathContent]

##### 5.14.5.1.3 choice

###### 5.14.5.1.3.1 when

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

###### 5.14.5.1.3.1.1 set-variable

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

#### 5.14.5.1.3.1.2 file:create-directory

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

#### 5.14.5.1.3.1.3 file:write

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

#### 5.14.5.1.3.1.3.1 file:content

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

#### 5.14.5.1.3.1.4 set-variable

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

#### 5.14.5.1.3.2 otherwise

##### 5.14.5.1.3.2.1 set-variable

Attribute	Value
variableName	customRulesPath
value	#[null]

#### 5.14.5.2 when

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

#### 5.14.5.2.1 choice

##### 5.14.5.2.1.1 when

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

#### 5.14.5.2.1.1.1 set-variable

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

#### 5.14.5.2.1.1.2 file:create-directory

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

#### 5.14.5.2.1.1.3 set-variable

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

#### 5.14.5.2.1.1.4 file:write

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

#### 5.14.5.2.1.1.4.1 file:content

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

#### 5.14.5.2.1.1.5 file:read

Attribute	Value
path	#[vars.zipFilePath]
target	savedZipContent

#### 5.14.5.2.1.1.6 java:invoke-static

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

#### 5.14.5.2.1.1.6.1 java:args

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

#### 5.14.5.2.1.1.7 set-variable

Attribute	Value
variableName	extractedPath
value	#[payload]

#### 5.14.5.2.1.1.8 set-variable

Attribute	Value
variableName	projectPath
value	#[vars.extractedPath]

#### 5.14.5.2.1.1.9 set-variable

Attribute	Value
variableName	displayPath
value	#[vars.zipFilename]

#### 5.14.5.2.1.1.10 logger

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

#### 5.14.5.2.1.1.11 choice

##### 5.14.5.2.1.1.11.1 when

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

##### 5.14.5.2.1.1.11.2 otherwise

#### 5.14.5.2.1.2 otherwise

##### 5.14.5.2.1.2.1 logger

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

#### 5.14.5.2.1.2.2 raise-error

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

#### 5.14.5.3 otherwise

##### 5.14.5.3.1 logger

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

##### 5.14.5.3.2 raise-error

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

#### 5.14.6 choice

##### 5.14.6.1 when

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

##### 5.14.6.1.1 set-variable

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

##### 5.14.6.1.2 set-variable

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

##### 5.14.6.2 otherwise

##### 5.14.6.2.1 set-variable

Attribute	Value
variableName	reportDirName
value	muleguard-reports

#### 5.14.7 java:invoke-static

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

##### 5.14.7.1 java:args

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

#### 5.14.8 set-variable

Attribute	Value
variableName	validationResults
value	#[payload]

#### 5.14.9 set-variable

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

#### 5.14.10 set-variable

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

#### 5.14.11 choice

##### 5.14.11.1 when

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

##### 5.14.11.1.1 set-variable

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

#### 5.14.11.2 otherwise

##### 5.14.11.2.1 logger

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

#### 5.14.12 logger

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

#### 5.14.13 os:store

Attribute	Value
objectStore	Report_Path_Store
key	#[vars.userSessionId]

##### 5.14.13.1 os:value

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

#### 5.14.14 async

##### 5.14.14.1 flow-ref

Attribute	Value
name	send-usage-notification-flow

#### 5.14.15 ee:transform

##### 5.14.15.1 ee:message

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

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

## 5.14.16 error-handler

### 5.14.16.1 on-error-propagate

Attribute	Value
type	MULEGUARD:UNSUPPORTED_CONTENT_TYPE

#### 5.14.16.1.1 ee:transform

##### 5.14.16.1.1.1 ee:message

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

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

### 5.14.16.2 on-error-propagate

Attribute	Value
type	ANY

#### 5.14.16.2.1 logger

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

#### 5.14.16.2.2 ee:transform

##### 5.14.16.2.2.1 ee:message

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

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

## 5.15. send-usage-notification-flow

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

Type: flow

Components: 69

### 5.15.1 os:retrieve

Attribute	Value
objectStore	User_Session_Store
key	#vars.userSessionId]

#### 5.15.1.1 os:default-value

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

### 5.15.2 set-variable

Attribute	Value
variableName	sessionData
value	#payload]

### 5.15.3 set-variable

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

### 5.15.4 set-variable

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

### 5.15.5 set-variable

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

### 5.15.6 logger

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

### 5.15.7 set-variable

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

### 5.15.8 set-variable

Attribute	Value
variableName	totalAttachmentSize
value	#[0]

### 5.15.9 set-variable

Attribute	Value
variableName	tempAttachments
value	#[]

### 5.15.10 logger

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

### 5.15.11 set-variable

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

### 5.15.12 java:invoke-static

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

#### 5.15.12.1 java:args

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

### 5.15.13 choice

#### 5.15.13.1 when

Attribute	Value
expression	#[vars.shouldAttachReports]

#### 5.15.13.1.1 try

##### 5.15.13.1.1.1 file:read

Attribute	Value
path	#[vars.reportsZipPath]
target	reportsZipContent

##### 5.15.13.1.1.2 set-variable

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

#### 5.15.13.1.1.3 set-variable

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

#### 5.15.13.1.1.4 set-variable

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

#### 5.15.13.1.1.5 logger

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

#### 5.15.13.1.1.6 error-handler

##### 5.15.13.1.1.6.1 on-error-continue

###### 5.15.13.1.1.6.1.1 logger

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

#### 5.15.13.2 otherwise

##### 5.15.13.2.1 logger

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

#### 5.15.14 choice

##### 5.15.14.1 when

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

#### 5.15.14.1.1 try

##### 5.15.14.1.1.1 file:read

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

##### 5.15.14.1.1.2 set-variable

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

##### 5.15.14.1.1.3 set-variable

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

##### 5.15.14.1.1.4 set-variable

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

##### 5.15.14.1.1.5 logger

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

##### 5.15.14.1.1.6 error-handler

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

###### 5.15.14.1.1.6.1.1 logger

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

#### 5.15.14.2 otherwise

##### 5.15.14.2.1 logger

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

#### 5.15.15 choice

##### 5.15.15.1 when

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

##### 5.15.15.1.1 logger

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

##### 5.15.15.2 otherwise

##### 5.15.15.2.1 set-variable

Attribute	Value
variableName	emailAttachments
value	#[{}]

##### 5.15.15.2.2 logger

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

#### 5.15.16 ee:transform

##### 5.15.16.1 ee:message

##### 5.15.16.1.1 ee:set-payload

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

## 5.15.17 choice

### 5.15.17.1 when

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

### 5.15.17.1.1 email:send

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

### 5.15.17.1.1.1 email:body

Attribute	Value
contentType	text/html

### 5.15.17.1.1.1.1 email:content

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

### 5.15.17.1.1.2 email:attachments

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

### 5.15.17.2 otherwise

#### 5.15.17.2.1 email:send

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

#### 5.15.17.2.1.1 email:body

Attribute	Value
contentType	text/html

#### 5.15.17.2.1.1.1 email:content

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

## 5.15.18 logger

Attribute	Value
level	INFO
message	Usage notification email sent successfully

## 5.15.19 try

### 5.15.19.1 file:delete

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

### 5.15.19.2 logger

Attribute	Value
level	DEBUG
message	Temporary reports ZIP deleted

### 5.15.19.3 error-handler

#### 5.15.19.3.1 on-error-continue

##### 5.15.19.3.1.1 logger

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

## 5.15.20 error-handler

#### 5.15.20.1 on-error-continue

##### 5.15.20.1.1 logger

Attribute	Value
level	ERROR
message	Failed to send usage notification email

## 5.16. serve-report-flow

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

Type: flow

Components: 18

### 5.16.1 http:listener

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

### 5.16.2 set-variable

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

### 5.16.3 set-variable

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

### 5.16.4 set-variable

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

### 5.16.5 logger

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

### 5.16.6 os:retrieve

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

### 5.16.7 set-variable

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

## 5.16.8 set-variable

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

## 5.16.9 logger

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

## 5.16.10 set-variable

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

## 5.16.11 file:read

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

## 5.16.12 error-handler

### 5.16.12.1 on-error-propagate

Attribute	Value
type	FILE:FILE_NOT_FOUND

#### 5.16.12.1.1 logger

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

#### 5.16.12.1.2 set-payload

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

#### 5.16.12.2 on-error-propagate

Attribute	Value
type	ANY

#### 5.16.12.2.1 logger

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

#### 5.16.12.2.2 set-payload

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

### 5.17. cleanup-workspace-flow

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

Type: flow

Components: 31

#### 5.17.1 scheduler

##### 5.17.1.1 scheduling-strategy

###### 5.17.1.1.1 cron

Attribute	Value
expression	#{workspace.cleanup.schedule}

#### 5.17.2 logger

Attribute	Value
level	INFO
message	Starting workspace cleanup...

### 5.17.3 choice

#### 5.17.3.1 when

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

#### 5.17.3.1.1 set-variable

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

#### 5.17.3.1.2 set-variable

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

#### 5.17.3.1.3 set-variable

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

#### 5.17.3.1.4 set-variable

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

#### 5.17.3.1.5 logger

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

#### 5.17.3.1.6 file:list

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

### 5.17.3.1.7 foreach

#### 5.17.3.1.7.1 set-variable

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

#### 5.17.3.1.7.2 set-variable

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

### 5.17.3.1.7.3 choice

#### 5.17.3.1.7.3.1 when

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

#### 5.17.3.1.7.3.1.1 logger

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

#### 5.17.3.1.7.3.1.2 try

#### 5.17.3.1.7.3.2 otherwise

#### 5.17.3.1.7.3.2.1 logger

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

### 5.17.3.1.8 logger

Attribute	Value
level	INFO
message	Workspace cleanup completed

### 5.17.3.2 otherwise

#### 5.17.3.2.1 logger

Attribute	Value
level	INFO
message	Workspace cleanup is disabled

### 5.17.4 error-handler

#### 5.17.4.1 on-error-continue

##### 5.17.4.1.1 logger

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

## 5.18. send-registration-notification-flow

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

Type: flow

Components: 16

### 5.18.1 choice

#### 5.18.1.1 when

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

##### 5.18.1.1.1 logger

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

##### 5.18.1.1.2 set-variable

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

### 5.18.1.1.3 ee:transform

#### 5.18.1.1.3.1 ee:message

##### 5.18.1.1.3.1.1 ee:set-payload

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

#### 5.18.1.1.4 email:send

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

#### 5.18.1.1.4.1 email:body

Attribute	Value
contentType	text/html

#### 5.18.1.1.4.2 email:attachments

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

#### 5.18.1.1.5 logger

Attribute	Value
level	INFO
message	Registration notification sent.

#### 5.18.1.2 otherwise

##### 5.18.1.2.1 logger

Attribute	Value
level	DEBUG
message	Registration email disabled.

#### 5.18.2 error-handler

##### 5.18.2.1 on-error-continue

###### 5.18.2.1.1 logger

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

#### 5.19. raksanalyzer-root-flow

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

Type: flow

Components: 19

## 5.19.1 http:listener

Attribute	Value
path	/raksanalyzer
config-ref	HTTP_Listener_config
allowedMethods	GET

## 5.19.2 set-variable

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

## 5.19.3 choice

### 5.19.3.1 when

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

#### 5.19.3.1.1 logger

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

#### 5.19.3.1.2 os:contains

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

#### 5.19.3.1.3 choice

##### 5.19.3.1.3.1 when

Attribute	Value
expression	#![vars.sessionExists]

###### 5.19.3.1.3.1.1 logger

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

#### 5.19.3.1.3.1.2 flow-ref

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

#### 5.19.3.1.3.2 otherwise

##### 5.19.3.1.3.2.1 logger

Attribute	Value
level	DEBUG
message	Session valid.

#### 5.19.3.2 otherwise

##### 5.19.3.2.1 logger

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

#### 5.19.3.2.2 flow-ref

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

#### 5.19.4 async

##### 5.19.4.1 flow-ref

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

#### 5.19.5 set-variable

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

#### 5.19.6 set-payload

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

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

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

Type: flow

Components: 8

### 5.20.1 os:retrieve

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

#### 5.20.1.1 os:default-value

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

### 5.20.2 email:send

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

#### 5.20.2.1 email:body

Attribute	Value
contentType	text/html

#### 5.20.2.1.1 email:content

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

### 5.20.3 error-handler

#### 5.20.3.1 on-error-continue

##### 5.20.3.1.1 logger

Attribute	Value
level	WARN
message	Failed to send launch notification

### 5.21. raksanalyzer-ui-flow

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

Type: flow

Components: 17

#### 5.21.1 http:listener

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

##### 5.21.1.1 http:response

###### 5.21.1.1.1 http:headers

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

### 5.21.2 set-variable

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

### 5.21.3 set-variable

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

### 5.21.4 choice

Attribute	Value
doc:name	Route UI vs API

#### 5.21.4.1 when

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

##### 5.21.4.1.1 file:read

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

#### 5.21.4.2 when

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

##### 5.21.4.2.1 file:read

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

#### 5.21.4.3 when

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

#### 5.21.4.3.1 set-variable

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

#### 5.21.4.3.2 http:request

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

#### 5.21.4.3.2.1 http:uri-params

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

#### 5.21.4.4 otherwise

##### 5.21.4.4.1 logger

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

#### 5.21.4.4.2 file:read

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

### 5.22. raksanalyzer-api-flow

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

Type: flow

Components: 32

#### 5.22.1 http:listener

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

### 5.22.1.1 http:response

Attribute	Value
statusCode	#[vars.httpStatus default 200]

### 5.22.1.1.1 http:headers

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

## 5.22.2 set-variable

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

## 5.22.3 choice

### 5.22.3.1 when

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

### 5.22.3.1.1 set-variable

Attribute	Value
variableName	uploadId
value	#[uuid()]

### 5.22.3.1.2 set-variable

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

### 5.22.3.1.3 file:create-directory

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

#### 5.22.3.1.4 ee:transform

Attribute	Value
doc:name	Extract Multipart Data

#### 5.22.3.1.4.1 ee:message

#### 5.22.3.1.4.2 ee:variables

##### 5.22.3.1.4.2.1 ee:set-variable

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

##### 5.22.3.1.4.2.2 ee:set-variable

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

#### 5.22.3.1.5 file:write

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

##### 5.22.3.1.5.1 file:content

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

#### 5.22.3.1.6 set-payload

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

### 5.22.3.2 when

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

#### 5.22.3.2.1 java:invoke-static

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

##### 5.22.3.2.1.1 java:args

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

#### 5.22.3.2.2 ee:transform

Attribute	Value
doc:name	Transform Result

##### 5.22.3.2.2.1 ee:message

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

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

### 5.22.3.3 when

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

#### 5.22.3.3.1 set-payload

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

#### 5.22.3.4 when

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

#### 5.22.3.4.1 set-payload

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

#### 5.22.3.5 when

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

#### 5.22.3.5.1 set-payload

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

#### 5.22.3.6 otherwise

##### 5.22.3.6.1 set-payload

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

##### 5.22.3.6.2 set-variable

Attribute	Value
variableName	httpStatus
value	404

## 6. Mule Sub-Flows

**Total Sub-Flows: 2**

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

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

Type: sub-flow

Components: 5

#### 6.1.1 set-variable

Attribute	Value
variableName	sessionId
value	#[uuid()]

#### 6.1.2 set-variable

Attribute	Value
variableName	sessionStartTime
value	#[now()]

#### 6.1.3 os:store

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

#### 6.1.3.1 os:value

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

#### 6.1.4 logger

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

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

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

Type: sub-flow

Components: 5

#### 6.2.1 set-variable

Attribute	Value
variableName	sessionId
value	#[uuid()]

#### 6.2.2 set-variable

Attribute	Value
variableName	sessionStartTime
value	#[now()]

#### 6.2.3 os:store

Attribute	Value
objectStore	User_Session_Store
key	#[vars.sessionId]

#### 6.2.3.1 os:value

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

#### 6.2.4 logger

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

## 7. DataWeave Files

No DataWeave files found

## 8. Other Resources

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_20251225_210841.xlsx	reports\apiguardwrapper_20251225_210841.xlsx
reports\apiguardwrapper_20251225_210955.xlsx	reports\apiguardwrapper_20251225_210955.xlsx
reports\apiguardwrapper_20251225_211057.xlsx	reports\apiguardwrapper_20251225_211057.xlsx
reports\apiguardwrapper_Analysis_Document_202512-25_205648.docx	reports\apiguardwrapper_Analysis_Document_20251225_205648.docx
reports\apiguardwrapper_Analysis_Document_202512-25_205648.pdf	reports\apiguardwrapper_Analysis_Document_20251225_205648.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210153.docx	reports\apiguardwrapper_Analysis_Document_20251225_210153.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210153.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210153.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210607.docx	reports\apiguardwrapper_Analysis_Document_20251225_210607.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210607.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210607.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210644.docx	reports\apiguardwrapper_Analysis_Document_20251225_210644.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210644.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210644.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_210841.docx	reports\apiguardwrapper_Analysis_Document_20251225_210841.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210841.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210841.pdf

<b>File Name</b>	<b>Relative Path</b>
reports\apiguardwrapper_Analysis_Document_202512-25_210955.docx	reports\apiguardwrapper_Analysis_Document_20251225_210955.docx
reports\apiguardwrapper_Analysis_Document_202512-25_210955.pdf	reports\apiguardwrapper_Analysis_Document_20251225_210955.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_211057.docx	reports\apiguardwrapper_Analysis_Document_20251225_211057.docx
reports\apiguardwrapper_Analysis_Document_202512-25_211057.pdf	reports\apiguardwrapper_Analysis_Document_20251225_211057.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_212344.pdf	reports\apiguardwrapper_Analysis_Document_20251225_212344.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_212520.pdf	reports\apiguardwrapper_Analysis_Document_20251225_212520.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_212654.pdf	reports\apiguardwrapper_Analysis_Document_20251225_212654.pdf
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reports\apiguardwrapper_Analysis_Document_202512-25_213151.pdf	reports\apiguardwrapper_Analysis_Document_20251225_213151.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_213329.pdf	reports\apiguardwrapper_Analysis_Document_20251225_213329.pdf
reports\apiguardwrapper_Analysis_Document_202512-25_213505.pdf	reports\apiguardwrapper_Analysis_Document_20251225_213505.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
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

<b>File Name</b>	<b>Relative Path</b>
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.