Policy R6 Frankfurt CSIT/External Lab Functional Test Cases

CSIT and Testsuite Tests

Triggered by merges in policy/distribution

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/distribution/distribution-test.robot;h=2b1c6d64eb6eebf878e8795b9db0704e26bf5e5f;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Lab
1	Perform healthcheck of the component	Policy distribution docker image is available	API – healthcheck Method - GET Endpoint: https://<host>:6969/policy/distribution/v1/healthcheck	The component should return health status as **“true”**	CSIT - DONE External Lab
2	Query component for statistics	Policy distribution docker image is available	API - statistics Method - GET Endpoint: https://<host>:6969/policy/distribution/v1/statistics	The component should return the current statistics of the component.	CSIT - DONE
3	InvokeDistributionUsingFile And RunEventOnApexEngine				

Triggered by merges in policy/pap

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/pap/pap-test.robot;h=67a578281ba8032a5926fbed5baf28890d1a427e;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT/External Lab
1	Perform all component Healthcheck	PAP docker image is available	API - component healthcheck METHOD - GET Endpoint: https://<host>:6969/policy/pap/v1/components/healthcheck	CSIT - 200 but only the pap should return "healthy" since not all the components are running. TESTSUITE: 200 and all components should return "healthy"	CSIT - TBD Testsuite - INT-1509 - Getting issue details... STATUS
1	Perform healthcheck	PAP docker image is available	API – healthcheck Method - GET Endpoint: https://<host>:6969/policy/pap/v1/healthcheck	The component should return health status as **“true”**	CSIT - DONE External Lab - DONE
2	Query component for statistics	PAP docker image is available	API - statistics Method - GET Endpoint: https://<host>:6969/policy/pap/v1/statistics	The component should return the current statistics of the component.	CSIT - DONE External Lab

3	Query pdp group information	PAP docker image is available	API - pdps Method - GET Endpoint: https:{url}:{port} /policy/pap/v1/pdps	The component should return the list of PDP groups and subgroups together with the policies that are deployed on each PDP group and subgroup.	CSIT - DONE
4	Create PDP group & subgroup	PAP docker image is available	API - pdps Method - POST Endpoint: https:{url}:{port} /policy/pap/v1/pdps	The component should create the relevant PDP group & subgroup in the database and return with operation success message/code.	CSIT - DONE
5	Create a Policy	API docker image is available	API – *policytypes/onap.policies.Monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies* Method - POST Endpoint: http://<host>:6969 /policy/api/v1/*policytypes/onap.policies.Monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies*	The Policy API should return code 201 and message "A new policy has been successfully created."	CSIT
6	Deploy policy to PDP group & subgroup	PAP docker image is available API docker image is available DMaaP simulator docker image is needed; a PDP can be simulated using curl	API - pdps Method - POST Endpoint: https:{url}:{port} /policy/pap/v1/pdps	The component should map the relevant policies with the corresponding PDP group & subgroup in database. Deploy the policy in relevant PDP and return with operation success message/code.	CSIT
7	UNDeploy policy to PDP group & subgroup	PAP docker image is available API docker image is available NOTE: PDP's not needed for this test in Dublin.	API - pdps Method - POST Endpoint: https:{url}:{port} /policy/pap/v1/pdps	Based on test #5 - undeploy those policies	CSIT - DONE
~~8~~	~~Query pdp group statistics~~	~~PAP docker image is available~~ ~~PDP docker image is available~~	~~API - pdps~~ ~~Method - GET~~ ~~Endpoint: https:{url}:{port} /policy/pap/v1/pdps/statistics~~	~~The PAP component must return the statistics for PDP groups, subgroups and individual PDPs.~~	~~CSIT (Not done in this release)~~ ~~The API will be implemented in next release.~~
~~9~~	~~Delete PDP group & subgroup~~	~~PAP docker image is available~~ ~~PDP docker image is available~~	~~API - pdps~~ ~~Method - DELETE~~ ~~Endpoint: https:{url}:{port} /policy/pap/v1/pdps?name=<group_name>&version=<version>~~	~~The component should delete the relevant PDP group & subgroup from database and kill the corresponding PDP instances (running as kubernetes pods). Finally, return with operation success message/code.~~	~~CSIT (Not done in this release)~~ ~~The API will be implemented in next release.~~

Triggered by merges in policy/drools-pdp

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/drools-pdp/drools-pdp-test.robot;h=cf4d3ceac87dde285d997a3885ebb49bc4f16cb9;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT/External Labs
1	Alive	Verify that a PDP-D with no applications comes alive	API – telemetry Method - GET Endpoint: https://<host>:9696/policy/pdpd/v1/engine	Verify alive field	CSIT-DONE

Triggered by merges in policy/drools-applications

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/drools-applications/drools-applications-test.robot;h=c3586cfa9d54daf6829cba3dc27bc81b56e8d24d;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Labs
1	Alive	Verify that the PDP-D + Control Loop Apps come alive	API – telemetry Method - GET Endpoint: https://<host>:9696/policy/pdp/engine	Verify alive field is set to 'true'	CSIT - DONE
2	Healthcheck	Verify that the PDP-D + Control Loop Apps passes healthchecks	API – telemetry Method - GET Endpoint: https://<host>:6969/healthcheck	Verify that the healthy field at the root object is set to 'true'	CSIT - DONE
3	Frankfurt	Verify that the PDP-D + Control Loop Apps - Frankfurt controller has been successfully brought up	API – telemetry Method - GET Endpoint: https://<host>:6969/policy/pdp/engine/controllers/frankfurt/drools/facts	Verify that a 200 OK is received indicating that there is a drools session associated with this controller that has been successfully instantiated.	CSIT - DONE
4	vFW	Verify vFW use case. Simulators should be installed.	1. Add vFW Operational Policy 2. Inject ONSET 3. Trace the vFW use case across the complete sequence of messages	Verify vFirewall completes successfully	CSIT
5	vDNS	Verify Scale out use case. Simulators should be installed.	1. Add vDNS Operational Policy 2. Inject ONSET 3. Trace the vDNS use case across complete sequence of messages	Verify scale out completes successfully	CSIT
6	vCPE	Verify vCPE use case. Simulators should be installed.	1. Add vCPE Operational Policy 2. Inject ONSET 3. Trace the vCPE use case across the complete sequence of messages	Verify vCPE completes successfully	CSIT

Triggered by merges in policy/xacml-pdp

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/xacml-pdp/xacml-pdp-test.robot;h=0305af8e9fd2ba91d5711680f3be28efb829b37e;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Lab
1	Health Check	Xacml-PDP docker image available	API – healthcheck Method - GET Endpoint: http://<host>:6969/policy/pdpx/v1/healthcheck	The component should return health status as **“true”** Status code 200	CSIT External Lab
2	Statistics	Xacml-PDP docker image available	API – statistics Method - GET Endpoint: http://<host>:6969/policy/pdpx/v1/statistics	The Xacml PDP should return statistics report consisting of 0 policies loaded and 0 decisions Status code 200	CSIT

3	ExecuteXacml Policy				
3a	CreateNewMonitorPolicy	API docker image available	API – *policytypes/onap.policies.Monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies* Method - POST Endpoint: http://<host>:6969/policy/api/v1/*policytypes/onap.policies.Monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies*	The Policy API should return code 201 and message "A new policy has been successfully created."	CSIT
3b	DeployMonitorPolicy	Xacml-PDP and PAP docker images available Policy created on the PAP	API – deployPolicy Method - POST Endpoint: http://<host>:6969/policy/pdpx/v1/deployPolicy	Successfully deploy a policy to the XACML PDP Statistics should increment policy count Status code 201	CSIT
3c	GetAbbreviatedDecisionResult	Xacml-PDP docker image available Test Case 4 success	API – decision Method - POST Endpoint: http://<host>:6969/policy/pdpx/v1/decision?abbrev=true	The Xacml PDP should return a Decision object containing the decision and abbreviated policy results Status code 200	CSIT
3c	GetAbbreviatedDecisionResult	Xacml-PDP docker image available Test Case 4 success	API – decision Method - POST Endpoint: http://<host>:6969/policy/pdpx/v1/decision?abbrev=true	The Xacml PDP should return a Decision object containing the decision and abbreviated policy results Status code 200	CSIT /External Lab (stretch)
3d	GetDecision	Xacml-PDP docker image available Test Case 5 success	API – decision Method - POST Endpoint: http://<host>:6969/policy/pdpx/v1/decision	The Xacml PDP should return a Decision object containing the decision Status code 200	CSIT /External Lab (stretch)

Triggered by merges in policy/apex-pdp

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/apex-pdp/apex-pdp-test.robot;h=9956731d585a7d0ef7157a8c73c41e9888e70cdb;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT /External Labs
1	Perform healthcheck of the component	Apex PDP docker image is available	API – healthcheck Method - GET Endpoint: https://<host>:6969/policy/apex-pdp/v1/healthcheck	The component should return health status as **"true"** Status code 200	CSIT - DONE External Lab
2	ExecuteApexPolicy				
2a	CreateOperationalPolicyType	API docker image available	API – policytypes Method - POST Endpoint: http://<host>:6969/policy/api/v1/policytypes	200	CSIT - DONE External Lab
2b	CreateNewOperationalPolicy	API docker image available	API – policytypes/onap.policies.controlloop.operational.Apex/versions/1.0.0/policies Method - POST Endpoint: http://<host>:6969/policy/api/v1/policytypes/onap.policies.controlloop.operational.Apex/versions/1.0.0/policies	200	CSIT - DONE External Lab
2c	DeployOperationalPolicy	APEX-PDP and PAP docker images available DMaaP Simulator available. Policy created	API – pdps/deployments/batch Method - POST Endpoint: http://<host>:6969/policy/pap/v1/pdps/deployments/batch	200	CSIT - DONE External Lab

2d	RunEventOnApex Engine	APEX-PDP docker image available 2c succeeds	API – /apex/FirstConsumer/EventIn Method - POST Endpoint: http://<APEX_IP>:23324/apex/FirstConsumer/EventIn	200	CSIT - DONE External Lab
3	Query component for statistics	Apex PDP docker image is available	API - statistics Method - GET Endpoint: https://<host>:6969/policy/apex-pdp/v1/statistics	The component should return the current statistics of the component.	CSIT (Stretch)

Triggered by merges in policy/api

https://gerrit.onap.org/r/gitweb?p=integration/csit.git;a=blob;f=tests/policy/api/api-test.robot;h=76c1bdc6fd5096d2cb3d65300494dd5abd872c2b;hb=refs/heads/master

Test Case Id	Description	Pre-conditions	Test Steps	Expected Results	CSIT External Labs
1	Healthcheck Perform healthcheck for policy design API service	• Policy API docker image available	API – healthcheck Method - GET Endpoint: http://<host>:6969/policy/api/v1/healthcheck	200	CSIT External Lab
2	Statistics Retrieve statistics of policy design API invocation	• Policy API docker image available	API – statistics Method - GET Endpoint: http://<host>:6969/policy/api/v1/statistics	200	CSIT External Lab
3	RetrievePolicyTypes Retrieve pre-loaded generic policy types	• Policy API docker image available	API – policytypes Method - GET Endpoint: http://<host>:6969/policy/api/v1/policytypes	200 - all preloaded policy types	CSIT
4	CreateTCAPolicyTypeV1	• Policy API docker image available	API – policytypes Method - GET Endpoint: http://<host>:6969/policy/api/v1/policytypes	406 - policy type v1 is already preloaded	CSIT
5	CreateTCAPolicyTypeV2	• Policy API docker image available	API – policytypes Method - GET Endpoint: http://<host>:6969/policy/api/v1/policytypes	200 - v2 created	CSIT
6	RetrieveMonitoringPolicyTypes	• Policy API docker image available	API – policytypes Method - GET Endpoint: http://<host>:6969/policy/api/v1/policytypes	200 - both v1 and v2 retrieved	CSIT
7	CreateNewMonitoringPolicyV1 Create a new TCA policy type for DCAE TCA microservice	• Policy API docker image available • DCAE TCA ms policy type is not created yet	API – policytypes Method - POST Endpoint: http://<host>:6969/ /policy/api/v1/policytypes/onap.policies.monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies	200	CSIT
8	SimpleCreateNewMonitoringPolicyV1 Trying to create an existing policy with any change and same version should cause error.	• Policy API docker image available • DCAE TCA ms policy type v1 is created	/policy/api/v1/policies	406 - must supply new version	CSIT
9	SimpleCreateNewMonitoringPolicyV2 Create a new Monitoring TCA policiy version 2 using simple endpoint		/policy/api/v1/policies	200 - v2 created	CSIT

10	RetrievePoliciesOfType Retrieve Monitoring related policy types	• Policy API docker image available • DCAE TCA ms policy type v1 and v2 are created	API – policytypes/onap.policies.Monitoring Method - GET Endpoint: http://<host>:6969/ /policy/api/v1/policytypes/onap.policies.monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies	200 - contains both v1 and v2	CSIT
11, 12	DeleteSpecificPolicyV1 Delete the Monitoring Policy Version 1 of the TCA Policy Type	• Policy API docker image available • DCAE TCA ms policy type v1 and v2 are created	/policy/api/v1/policytypes/onap.policies.monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies/onap.restart.tca/versions/1.0.0	200 - delete successful 404 - not found on 2nd delete attempt	CSIT
13, 14	DeleteSpecificPolicyV2 Delete the Monitoring Policy Version 2 of the TCA Policy Type	• Policy API docker image available • DCAE TCA ms policy type v2 is created	/policy/api/v1/policytypes/onap.policies.monitoring.cdap.tca.hi.lo.app/versions/1.0.0/policies/onap.restart.tca/versions/2.0.0	200 - delete successful 404 - not found on 2nd delete attempt	CSIT
15, 16	DeleteSpecificPolicyTypeV1	• Policy API docker image available • DCAE TCA ms policy type v1 is created	/policy/api/v1/policytypes/onap.policies.monitoring.cdap.tca.hi.lo.app/versions/1.0.0	200 - delete successful 404 - not found on 2nd delete attempt	CSIT
17, 18	DeleteSpecificPolicyTypeV2	• Policy API docker image available • DCAE TCA ms policy type v2 is created	/policy/api/v1/policytypes/onap.policies.monitoring.cdap.tca.hi.lo.app/versions/2.0.0	200 - delete successful 404 - not found on 2nd delete attempt	CSIT

Pairwise Testing

POLICY Pair Wise Testing for Frankfurt Release

Stability and Performance Testing

POLICY-2452 - Getting issue details... STATUS

Results will be documented in the readthedocs: https://docs.onap.org/en/latest/submodules/policy/parent.git/docs/development/devtools/devtools.html#running-the-stability-performance-tests