Mule Domain Project – UhOne-2.0

PROJECT BACKGROUND

Idea: Mule Domain Project .

Business Case: Generic Process to share resources using Mule Domain Project

Problem Statement:
Currently we are sharing different properties like Database connections , Server/Client certificates and other generic resources across multiple mule services. All the services are storing these information in there respective properties file. As part of our yearly changes in certificates and credential this process is not sustainable and needs a lot of rework for maintenance and thus results in high cost.

Goal Statement:
Mule supports the ability to define selected connectors as common resources and expose them to all applications deployed under a same domain.

SOLUTION IMPLEMENTED

These resources are known as shared resources, to host these we create a Mule Domain Project and then reference it on each of the projects that are meant to use the elements in it. Once defined, any Mule application associated with a particular domain can access resources in this file.

OTHER DETAILS

Idea Logged By: Himanshu S Srivastava
Project/Team Name: UHOne Transformation 2.0
Project Nature: Mule Domain Project
IT Leader: Srinivas Ramsagar
Business Segment: OGS
ADG:
ADG Leader:
Offshore approver: K T, Srikanth
Onsite Approver: D'Souza, Vijay

BENEFITS

Shared resources allow multiple development teams to worl in parallel using the same set of reusable connectors. Defining these connectors as shared resources at the domain level allows the team to:

- Expose multiple services within the domain through the same port
- Share the connection to persistent storage
- Share services between applications through a well-defined interface
- Ensure consistency between applications upon any changes, as the configuration is only set in one place.
- This will also help us to reduce the infrastructure and maintenance cost per year due to the mandatory changes in server certificates and login credentials.

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Financial Impact

Description	Before Improvement	After Improvement	Units	Comments
Services Per Year	150	150	APIs	For each API properties file needs to be added and maintained every year
Yearly Certificates, database credentials and service accounts management effort	15 hrs.	N/A		After development of generic logging API , no testing needs to be done for event logging API separately, Just needs to verify the event logging data in tables
App Ops Support	3	15 mins.	Hrs.	
Total Effort (Yearly)	2250 + 450 = 2700	37.5	Hrs.	(Efforts Per Service*Service Per Year) + (App Ops Support Efforts *Service per Year)
Savings		2662.5 Hrs	Dollars	$39 per Hrs.
Total Cost Savings: 2662.5 Hrs			Dollars	$103837.50

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Other Details

UTILIZATION DETAILS

Generic Process to share resources using Mule Domain Project decreased the manual effort where resource has to spend time during yearly certificates, password and service account maintenance.

Leveraging Opportunity

This Concept can be implemented in any project where Mulesoft is being used.

SIGN-OFF MAIL

FW BIs for approval.msg

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