Variance Report

• Version: 0.1

• Status: Released.

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 Problem description: The variance report under config → endpoint screen → variance report was reported to be having issues with displaying vm variance data for many endpoints or no data was found in the report for several days.

• RCA:

- Connectivity timeout issue between Java catalyst-service and Python Endpoint Broker.
- vmodl.fault.ManagedObjectNotFound exception in EPB for VM's that was terminated or not properly created properly.
- NFE (Number Format Exception) while processing VM's vlan range causing exception for all VM resulting in 0 to No successfull VM data insertion in catalyst database.

Solution Provided:

Backend Summary:

- Updated catalyst-service to Asynchronous queue to make API call instead of synchronous queue to communicate with endpoint broker overcomming the connectivity time out issue.
- Handled NFE by adding regex based splitting for multiple vlan ranges.
- vmodl.fault.ManagedObjectNotFound was handled by skipping VM's that don't have MO.

Change Logs:

```
Catalyst-Service, Catalyst-Core
`/discoverAll/all`
`VmDiscoverListener`
```

Variance Report 1

EPB ESXI, EXSI_67
`Compute.py/discover`

• Pages Affected:

 $\circ \hspace{0.1in} \text{config} \hspace{0.1in} \rightarrow \hspace{0.1in} \text{Endpoint} \hspace{0.1in} \rightarrow \hspace{0.1in} \text{Variance Report}$

• UI/UX: No changes.

• Data Modelling: NA

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