CLAIMS

WHAT IS CLAIMED IS:

1. A system comprising:

a non-transitory memory; and

one or more hardware processors coupled to the non-transitory memory and configured to read instructions from the non-transitory memory to cause the system to perform operations comprising:

loading, based on an application startup of an application executing in a serverless computing environment, data transformation configurations for a data processing pipeline of data for system endpoints of the system;

creating a plurality of processing threads for the application, wherein each of the plurality of processing threads is associated with one of a data ingestion operation, a data transformation operation, or a data loading operation;

ingesting data received from the system endpoints using at least one data ingestion thread of the plurality of processing threads;

transforming the data from the at least one data ingestion thread using at least one data transformation thread of the plurality of processing threads based on a data format utilized by one or more of the system endpoints designated to receive the data; and

loading the transformed data from the at least one data transformation thread to the one or more of the system endpoints using a loading thread of the plurality of processing threads.

2. The system of claim 1, wherein the serverless computing environment comprises a cloud computing environment without designated server clusters that perform the operations, and wherein the operations are performed by the system using executable code in the cloud computing environment configured to execute application conditions of the data transformation configurations for evaluations and transformations of the data.

3. The system of claim 2, wherein the application conditions comprise a plurality of operators each having one or more inspectors for the data and one or more logical actions for the one or more inspectors, and wherein each of the one or more inspectors comprises a coded expression for inspecting the data for routing to the system endpoints through the data processing pipeline.

4. The system of claim 1, wherein the data processing pipeline is based on one or more pre-coded data packages that are configurable by users implementing the data processing pipeline with the system, and wherein the pre-coded data packages comprise executable code for data transformation patterns that identify patterns of data and transform the patterns of data to designated system endpoints.

5. The system of claim 1, wherein the loading comprises:

delivering, using a data sink configured to receive the transformed data as a destination node, the transformed data to the one or more system endpoints using the loading thread, wherein the one or more system endpoints comprise at least one of a user computing device, an administrator node, or a destination network address.

6. The system of claim 1, wherein the data is ingested on a per-item basis and in a time series based on timestamps of each datum in the data ingested by the system.

7. The system of claim 1, wherein the transforming comprises:

executing one or more software processors configured to provide data transformation capabilities for singletons from the data and batches from the data; and

formatting the data in the data format used by the one or more system endpoints using the one or more software processors.

8. The system of claim 1, wherein the data is associated with at least one of a user login, a system activity, a security event log, or a system audit log, and wherein the operations further comprise:

tracing the data through the data processing pipeline, wherein the tracing identifies the data format utilized to transform the data and the one or more system endpoints that receive the data.

9. A method comprising:

loading, based on an application startup of an application executing in a serverless computing environment, data transformation configurations for a data processing pipeline of data for system endpoints for a system of a service provider;

creating a plurality of processing threads for the application, wherein each of the plurality of processing threads is associated with one of a data ingestion operation, a data transformation operation, or a data loading operation;

obtaining data received for the system endpoints using at least one data ingestion thread of the plurality of processing threads;

transforming the data from the at least one data ingestion thread using at least one data transformation thread of the plurality of processing threads based on a data format utilized by one or more of the system endpoints designated to receive the data; and

loading the transformed data from the at least one data transformation thread to the one or more of the system endpoints using a loading thread of the plurality of processing threads.

10. The method of claim 9, wherein the serverless computing environment comprises a cloud computing environment without designated server clusters that perform the operations, and wherein the operations are performed by the system using executable code in the cloud computing environment configured to execute application conditions of the data transformation configurations for evaluations and transformations of the data.

11. The method of claim 10, wherein the application conditions comprise a plurality of operators each having one or more inspectors for the data and one or more logical actions for the one or more inspectors, and wherein each of the one or more inspectors comprise a coded expression for inspecting the data for routing to the system endpoints through the data processing pipeline.

12. The method of claim 9, wherein the data is ingested on a per-item basis and in a time series based on timestamps of each datum in the data obtained by the system.

13. The method of claim 9, wherein the transforming comprises:

executing one or more software processors configured to provide data transformation capabilities for singletons from the data and batches from the data; and

formatting the data in the data format used by the one or more system endpoints using the one or more software processors.

14. The method of claim 9, wherein the data us associated with at least one of a user login, a system activity, a security event log, or a system audit log, and wherein the method further comprises:

tracing the data through the data processing pipeline, wherein the tracing identifies the data format utilized to transform the data and the one or more system endpoints that receive the data.

15. A non-transitory machine-readable medium having stored thereon machine-readable instructions executable to cause a machine to perform operations of the method of any one of claims 1 to 14.