**Cloud Design Diagram**

In this detailed diagram:

* Task Queue Service: A managed service provided by Google Cloud Platform (GCP) for managing the queue of crawling tasks. This could be implemented using services like Cloud Tasks or Cloud Pub/Sub.
* Scheduler Service: A service responsible for scheduling and triggering the execution of crawling tasks at predefined intervals. This could be implemented using Google Cloud Scheduler.
* Google Cloud Compute Engine: A virtual machine instance where the web crawler application is deployed and executed. It runs the web crawling logic using frameworks like Scrapy on Python runtime.
* Web Crawler: The application responsible for crawling the websites, extracting data, and saving it to a data storage system. It interacts with the task queue service to retrieve crawling tasks and processes them accordingly.
* Data Storage & Processing: Various data storage and processing services provided by Google Cloud Platform, such as Google Cloud Storage for storing raw data and BigQuery for data analysis and querying.

This detailed diagram illustrates how the components interact within the web crawling infrastructure, highlighting the utilization of Google Cloud Platform services to automate and streamline the crawling process.

