CLOUD SOLUTIONS – 3ª Sprint

B2BShift

Grupo(RMs): 555113,555799,557420,557839,558881

3. EXECUÇÃO - Evidências

Vídeo detalhando passo a passo da execução. O vídeo contém duas partes para detalhar melhor a execução, e corrigir os erros no terraform que surgiram na primeira parte.

* Parte 1: <https://drive.google.com/file/d/1mXIttIQGXomRcnw4CY_xRA6UF6KtKhHh/view?usp=sharing>
* Parte 2: <https://drive.google.com/file/d/1RC38GcJBdKSSAa5zHMVFj8hp-Mj-RlWZ/view?usp=sharing>

Print das execuções:

>gcloud auth login

A screenshot of a computer program

AI-generated content may be incorrect.

> terraform init

A screenshot of a computer program

AI-generated content may be incorrect.

>terraform plan

A screenshot of a computer program

AI-generated content may be incorrect.

>terraform apply

A computer screen shot of a program

AI-generated content may be incorrect.

log terraform apply>

*PS C:\Users\ssitta\OneDrive - azureford\Documents\FIAP\2025\B2Shift - 3Sprint\3Sprint - Cloud Solutions\gcp-b2bshift-iac> terraform apply*

*google\_service\_account.vertex\_ai\_sa: Refreshing state... [id=projects/composite-rune-470721-n2/serviceAccounts/b2bshift-vertex-ai-sa@composite-rune-470721-n2.iam.gserviceaccount.com]*

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*google\_dataproc\_job.spark\_etl: Refreshing state... [id=projects/composite-rune-470721-n2/regions/us-central1/jobs/3fd3f57c-2e0a-4651-a29c-b631b4c232f5]*

*google\_dataproc\_job.pyspark\_analytics: Refreshing state... [id=projects/composite-rune-470721-n2/regions/us-central1/jobs/fa5b3c4c-be62-4fe0-a7b8-60bd1a4e29a8]*

*google\_dataplex\_asset.storage\_assets["raw-zone"]: Refreshing state... [id=projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/raw-data-zone/assets/raw-zone-storage-asset]*

*google\_dataplex\_asset.bigquery\_assets["b2bshift\_raw"]: Refreshing state... [id=projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/raw-data-zone/assets/b2bshift-raw-bq-asset]*

*google\_dataplex\_asset.bigquery\_assets["b2bshift\_trusted"]: Refreshing state... [id=projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/curated-data-zone/assets/b2bshift-trusted-bq-asset]*

*google\_dataplex\_asset.storage\_assets["refined-zone"]: Refreshing state... [id=projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/curated-data-zone/assets/refined-zone-storage-asset]*

*google\_dataplex\_asset.bigquery\_assets["b2bshift\_analytics"]: Refreshing state... [id=projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/curated-data-zone/assets/b2bshift-analytics-bq-asset]*

*google\_dataplex\_asset.storage\_assets["trusted-zone"]: Refreshing state... [id=projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/curated-data-zone/assets/trusted-zone-storage-asset]*

*Note: Objects have changed outside of Terraform*

*Terraform detected the following changes made outside of Terraform since the last "terraform apply" which may have affected*

*this plan:*

*# google\_dataflow\_job.csv\_to\_bigquery has been deleted*

*- resource "google\_dataflow\_job" "csv\_to\_bigquery" {*

*id = "2025-08-31\_16\_03\_30-15315676072360581870"*

*- job\_id = "2025-08-31\_16\_03\_30-15315676072360581870" -> null*

*- name = "b2bshift-csv-to-bigquery" -> null*

*- state = "JOB\_STATE\_PENDING" -> null*

*# (16 unchanged attributes hidden)*

*}*

*# google\_dataflow\_job.streaming\_processor has been deleted*

*- resource "google\_dataflow\_job" "streaming\_processor" {*

*id = "2025-08-31\_16\_03\_30-9818493894850764307"*

*- job\_id = "2025-08-31\_16\_03\_30-9818493894850764307" -> null*

*- name = "b2bshift-streaming-processor" -> null*

*- state = "JOB\_STATE\_PENDING" -> null*

*# (16 unchanged attributes hidden)*

*}*

*Unless you have made equivalent changes to your configuration, or ignored the relevant attributes using ignore\_changes, the*

*following plan may include actions to undo or respond to these changes.*

*───────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────────*

*Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the*

*following symbols:*

*+ create*

*~ update in-place*

*-/+ destroy and then create replacement*

*Terraform will perform the following actions:*

*# google\_dataflow\_job.csv\_to\_bigquery will be created*

*+ resource "google\_dataflow\_job" "csv\_to\_bigquery" {*

*+ additional\_experiments = (known after apply)*

*+ effective\_labels = {*

*+ "environment" = "prod"*

*+ "job\_type" = "batch"*

*}*

*+ id = (known after apply)*

*+ job\_id = (known after apply)*

*+ labels = {*

*+ "environment" = "prod"*

*+ "job\_type" = "batch"*

*}*

*+ name = "b2bshift-csv-to-bigquery"*

*+ on\_delete = "drain"*

*+ parameters = {*

*+ "JSONPath" = "gs://dataflow-templates-composite-rune-470721-n2/schema.json"*

*+ "bigQueryLoadingTemporaryDirectory" = "gs://dataflow-temp-composite-rune-470721-n2/bq-loading/"*

*+ "inputFilePattern" = "gs://raw-zone-composite-rune-470721-n2-prod/\*.csv"*

*+ "javascriptTextTransformGcsPath" = "gs://dataflow-templates-composite-rune-470721-n2/transform.js"*

*+ "outputTable" = "composite-rune-470721-n2:b2bshift\_raw.sales\_proposals"*

*}*

*+ project = (known after apply)*

*+ service\_account\_email = "b2bshift-dataflow-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*+ skip\_wait\_on\_job\_termination = false*

*+ state = (known after apply)*

*+ temp\_gcs\_location = "gs://dataflow-temp-composite-rune-470721-n2/temp/"*

*+ template\_gcs\_path = "gs://dataflow-templates/latest/GCS\_Text\_to\_BigQuery"*

*+ terraform\_labels = {*

*+ "environment" = "prod"*

*+ "job\_type" = "batch"*

*}*

*+ type = (known after apply)*

*+ zone = "us-central1-a"*

*}*

*# google\_dataflow\_job.streaming\_processor will be created*

*+ resource "google\_dataflow\_job" "streaming\_processor" {*

*+ additional\_experiments = (known after apply)*

*+ effective\_labels = {*

*+ "environment" = "prod"*

*+ "job\_type" = "streaming"*

*}*

*+ id = (known after apply)*

*+ job\_id = (known after apply)*

*+ labels = {*

*+ "environment" = "prod"*

*+ "job\_type" = "streaming"*

*}*

*+ name = "b2bshift-streaming-processor"*

*+ on\_delete = "drain"*

*+ parameters = {*

*+ "inputTopic" = "projects/composite-rune-470721-n2/topics/b2bshift-data-ingestion"*

*+ "outputTableSpec" = "composite-rune-470721-n2:b2bshift\_raw.streaming\_data"*

*}*

*+ project = (known after apply)*

*+ service\_account\_email = "b2bshift-dataflow-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*+ skip\_wait\_on\_job\_termination = false*

*+ state = (known after apply)*

*+ temp\_gcs\_location = "gs://dataflow-temp-composite-rune-470721-n2/temp/"*

*+ template\_gcs\_path = "gs://dataflow-templates/latest/PubSub\_to\_BigQuery"*

*+ terraform\_labels = {*

*+ "environment" = "prod"*

*+ "job\_type" = "streaming"*

*}*

*+ type = (known after apply)*

*+ zone = "us-central1-a"*

*}*

*# google\_dataproc\_cluster.b2bshift\_cluster must be replaced*

*-/+ resource "google\_dataproc\_cluster" "b2bshift\_cluster" {*

*~ effective\_labels = {*

*- "goog-dataproc-cluster-name" = "b2bshift-spark-cluster-prod" -> null*

*- "goog-dataproc-cluster-uuid" = "b64a7860-860c-4f30-b41c-029262c8e32d" -> null*

*- "goog-dataproc-drz-resource-uuid" = "cluster-b64a7860-860c-4f30-b41c-029262c8e32d" -> null*

*- "goog-dataproc-location" = "us-central1" -> null*

*# (6 unchanged elements hidden)*

*}*

*~ id = "projects/composite-rune-470721-n2/regions/us-central1/clusters/b2bshift-spark-cluster-prod" -> (known after apply)*

*name = "b2bshift-spark-cluster-prod"*

*# (5 unchanged attributes hidden)*

*~ cluster\_config {*

*~ bucket = "dataproc-staging-us-central1-565386878204-ndytjg2w" -> (known after apply)*

*~ temp\_bucket = "dataproc-temp-us-central1-565386878204-xts6qvai" -> (known after apply)*

*# (1 unchanged attribute hidden)*

*~ auxiliary\_node\_groups (known after apply)*

*~ dataproc\_metric\_config (known after apply)*

*~ endpoint\_config (known after apply)*

*- endpoint\_config {*

*- enable\_http\_port\_access = false -> null*

*- http\_ports = {} -> null*

*}*

*~ gce\_cluster\_config {*

*- metadata = {} -> null*

*~ network = "https://www.googleapis.com/compute/v1/projects/composite-rune-470721-n2/global/networks/default" -> "default"*

*~ service\_account\_scopes = [ # forces replacement*

*- "https://www.googleapis.com/auth/cloud.useraccounts.readonly",*

*- "https://www.googleapis.com/auth/devstorage.read\_write",*

*- "https://www.googleapis.com/auth/logging.write",*

*# (1 unchanged element hidden)*

*]*

*tags = [*

*"b2bshift",*

*"dataproc",*

*"prod",*

*]*

*# (4 unchanged attributes hidden)*

*~ node\_group\_affinity (known after apply)*

*~ reservation\_affinity (known after apply)*

*~ shielded\_instance\_config (known after apply)*

*- shielded\_instance\_config {*

*- enable\_integrity\_monitoring = true -> null*

*- enable\_secure\_boot = true -> null*

*- enable\_vtpm = true -> null*

*}*

*}*

*~ master\_config {*

*~ image\_uri = "https://www.googleapis.com/compute/v1/projects/cloud-dataproc/global/images/dataproc-2-1-deb11-20250819-165100-rc01" -> (known after apply)*

*~ instance\_names = [*

*- "b2bshift-spark-cluster-prod-m",*

*] -> (known after apply)*

*~ min\_cpu\_platform = "AUTOMATIC" -> (known after apply)*

*# (2 unchanged attributes hidden)*

*# (1 unchanged block hidden)*

*}*

*~ preemptible\_worker\_config (known after apply)*

*- preemptible\_worker\_config {*

*- instance\_names = [] -> null*

*- num\_instances = 0 -> null*

*# (1 unchanged attribute hidden)*

*- disk\_config {}*

*- instance\_flexibility\_policy {*

*- instance\_selection\_results = [] -> null*

*}*

*}*

*~ software\_config {*

*~ image\_version = "2.1.96-debian11" -> "2.1-debian11"*

*~ properties = {*

*- "capacity-scheduler:yarn.scheduler.capacity.root.default.ordering-policy" = "fair"*

*- "core:fs.gs.block.size" = "134217728"*

*- "core:fs.gs.metadata.cache.enable" = "false"*

*- "core:hadoop.ssl.enabled.protocols" = "TLSv1,TLSv1.1,TLSv1.2"*

*- "dataproc:dataproc.allow.zero.workers" = "true"*

*- "distcp:mapreduce.map.java.opts" = "-Xmx576m"*

*- "distcp:mapreduce.map.memory.mb" = "768"*

*- "distcp:mapreduce.reduce.java.opts" = "-Xmx576m"*

*- "distcp:mapreduce.reduce.memory.mb" = "768"*

*- "hadoop-env:HADOOP\_DATANODE\_OPTS" = "-Xmx512m"*

*- "hdfs:dfs.datanode.address" = "0.0.0.0:9866"*

*- "hdfs:dfs.datanode.http.address" = "0.0.0.0:9864"*

*- "hdfs:dfs.datanode.https.address" = "0.0.0.0:9865"*

*- "hdfs:dfs.datanode.ipc.address" = "0.0.0.0:9867"*

*- "hdfs:dfs.namenode.handler.count" = "20"*

*- "hdfs:dfs.namenode.http-address" = "0.0.0.0:9870"*

*- "hdfs:dfs.namenode.https-address" = "0.0.0.0:9871"*

*- "hdfs:dfs.namenode.lifeline.rpc-address" = "b2bshift-spark-cluster-prod-m:8050"*

*- "hdfs:dfs.namenode.secondary.http-address" = "0.0.0.0:9868"*

*- "hdfs:dfs.namenode.secondary.https-address" = "0.0.0.0:9869"*

*- "hdfs:dfs.namenode.service.handler.count" = "10"*

*- "hdfs:dfs.namenode.servicerpc-address" = "b2bshift-spark-cluster-prod-m:8051"*

*- "mapred-env:HADOOP\_JOB\_HISTORYSERVER\_HEAPSIZE" = "1920"*

*- "mapred:mapreduce.job.maps" = "9"*

*- "mapred:mapreduce.job.reduce.slowstart.completedmaps" = "0.95"*

*- "mapred:mapreduce.job.reduces" = "3"*

*- "mapred:mapreduce.jobhistory.recovery.store.class" = "org.apache.hadoop.mapreduce.v2.hs.HistoryServerLeveldbStateStoreService"*

*- "mapred:mapreduce.map.cpu.vcores" = "1"*

*- "mapred:mapreduce.map.java.opts" = "-Xmx2457m"*

*- "mapred:mapreduce.map.maxattempts" = "10"*

*- "mapred:mapreduce.map.memory.mb" = "3072"*

*- "mapred:mapreduce.reduce.cpu.vcores" = "1"*

*- "mapred:mapreduce.reduce.java.opts" = "-Xmx2457m"*

*- "mapred:mapreduce.reduce.maxattempts" = "10"*

*- "mapred:mapreduce.reduce.memory.mb" = "3072"*

*- "mapred:mapreduce.task.io.sort.mb" = "256"*

*- "mapred:yarn.app.mapreduce.am.command-opts" = "-Xmx2457m"*

*- "mapred:yarn.app.mapreduce.am.resource.cpu-vcores" = "1"*

*- "mapred:yarn.app.mapreduce.am.resource.mb" = "3072"*

*- "spark-env:SPARK\_DAEMON\_MEMORY" = "1920m"*

*- "spark:spark.decommission.enabled" = "true"*

*- "spark:spark.driver.maxResultSize" = "960m"*

*- "spark:spark.driver.memory" = "1920m"*

*- "spark:spark.executor.cores" = "1"*

*- "spark:spark.executor.instances" = "2"*

*- "spark:spark.executor.memory" = "2688m"*

*- "spark:spark.executorEnv.OPENBLAS\_NUM\_THREADS" = "1"*

*- "spark:spark.plugins.defaultList" = "com.google.cloud.dataproc.DataprocSparkPlugin"*

*- "spark:spark.scheduler.mode" = "FAIR"*

*- "spark:spark.sql.adaptive.coalescePartitions.enabled" = "true"*

*- "spark:spark.sql.adaptive.enabled" = "true"*

*- "spark:spark.sql.cbo.enabled" = "true"*

*- "spark:spark.sql.optimizer.runtime.bloomFilter.join.pattern.enabled" = "true"*

*- "spark:spark.stage.maxConsecutiveAttempts" = "10"*

*- "spark:spark.storage.decommission.enabled" = "true"*

*- "spark:spark.storage.decommission.rddBlocks.enabled" = "true"*

*- "spark:spark.storage.decommission.shuffleBlocks.enabled" = "true"*

*- "spark:spark.task.maxFailures" = "10"*

*- "spark:spark.ui.port" = "0"*

*- "spark:spark.yarn.am.attemptFailuresValidityInterval" = "1h"*

*- "spark:spark.yarn.am.memory" = "640m"*

*- "spark:spark.yarn.executor.failuresValidityInterval" = "1h"*

*- "yarn-env:YARN\_NODEMANAGER\_HEAPSIZE" = "768"*

*- "yarn-env:YARN\_RESOURCEMANAGER\_HEAPSIZE" = "1920"*

*- "yarn-env:YARN\_TIMELINESERVER\_HEAPSIZE" = "1920"*

*- "yarn:yarn.nodemanager.address" = "0.0.0.0:8026"*

*- "yarn:yarn.nodemanager.resource.cpu-vcores" = "2"*

*- "yarn:yarn.nodemanager.resource.memory-mb" = "6144"*

*- "yarn:yarn.resourcemanager.am.max-attempts" = "10"*

*- "yarn:yarn.resourcemanager.decommissioning-nodes-watcher.decommission-if-no-shuffle-data" = "true"*

*- "yarn:yarn.resourcemanager.nodemanager-graceful-decommission-timeout-secs" = "86400"*

*- "yarn:yarn.scheduler.maximum-allocation-mb" = "6144"*

*- "yarn:yarn.scheduler.minimum-allocation-mb" = "1"*

*} -> (known after apply)*

*# (2 unchanged attributes hidden)*

*}*

*~ worker\_config {*

*~ image\_uri = "https://www.googleapis.com/compute/v1/projects/cloud-dataproc/global/images/dataproc-2-1-deb11-20250819-165100-rc01" -> (known after apply)*

*~ instance\_names = [*

*- "b2bshift-spark-cluster-prod-w-0",*

*- "b2bshift-spark-cluster-prod-w-1",*

*] -> (known after apply)*

*~ min\_cpu\_platform = "AUTOMATIC" -> (known after apply)*

*~ min\_num\_instances = 0 -> (known after apply)*

*# (2 unchanged attributes hidden)*

*# (1 unchanged block hidden)*

*}*

*# (1 unchanged block hidden)*

*}*

*~ virtual\_cluster\_config (known after apply)*

*}*

*# google\_vertex\_ai\_featurestore\_entitytype.customer\_entity will be updated in-place*

*~ resource "google\_vertex\_ai\_featurestore\_entitytype" "customer\_entity" {*

*id = "projects/composite-rune-470721-n2/locations/us-central1/featurestores/customer\_features\_store/entityTypes/customer"*

*name = "customer"*

*# (8 unchanged attributes hidden)*

*~ monitoring\_config {*

*- categorical\_threshold\_config {*

*- value = 0.3 -> null*

*}*

*- numerical\_threshold\_config {*

*- value = 0.3 -> null*

*}*

*# (1 unchanged block hidden)*

*}*

*}*

*Plan: 3 to add, 1 to change, 1 to destroy.*

*Changes to Outputs:*

*~ dataflow\_jobs = {*

*~ csv\_to\_bigquery = {*

*~ job\_id = "2025-08-31\_16\_03\_30-15315676072360581870" -> (known after apply)*

*name = "b2bshift-csv-to-bigquery"*

*~ state = "JOB\_STATE\_PENDING" -> (known after apply)*

*}*

*~ streaming\_processor = {*

*~ job\_id = "2025-08-31\_16\_03\_30-9818493894850764307" -> (known after apply)*

*name = "b2bshift-streaming-processor"*

*~ state = "JOB\_STATE\_PENDING" -> (known after apply)*

*}*

*}*

*~ dataproc\_cluster = {*

*~ master\_instance\_names = [*

*- "b2bshift-spark-cluster-prod-m",*

*] -> (known after apply)*

*name = "b2bshift-spark-cluster-prod"*

*~ worker\_instance\_names = [*

*- "b2bshift-spark-cluster-prod-w-0",*

*- "b2bshift-spark-cluster-prod-w-1",*

*] -> (known after apply)*

*# (1 unchanged attribute hidden)*

*}*

*- ml\_notebook = {*

*- location = "us-central1-a"*

*- name = "b2bshift-ml-workbench-prod"*

*} -> null*

*+ quick\_access\_urls = {*

*+ airflow\_ui = "https://89f0e978bca54e6c8ad37b43abecb321-dot-us-central1.composer.googleusercontent.com"*

*+ bigquery\_console = "https://console.cloud.google.com/bigquery?project=composite-rune-470721-n2"*

*+ composer\_console = "https://console.cloud.google.com/composer/environments?project=composite-rune-470721-n2"*

*+ dataflow\_console = "https://console.cloud.google.com/dataflow/jobs?project=composite-rune-470721-n2"*

*+ dataplex\_console = "https://console.cloud.google.com/dataplex?project=composite-rune-470721-n2"*

*+ dataproc\_console = "https://console.cloud.google.com/dataproc/clusters?project=composite-rune-470721-n2"*

*+ jupyter\_notebook = "Workbench instance temporarily disabled - create manually in console"*

*+ storage\_console = "https://console.cloud.google.com/storage/browser?project=composite-rune-470721-n2"*

*+ vertex\_ai\_console = "https://console.cloud.google.com/vertex-ai?project=composite-rune-470721-n2"*

*}*

*Do you want to perform these actions?*

*Terraform will perform the actions described above.*

*Only 'yes' will be accepted to approve.*

*Enter a value: yes*

*google\_dataproc\_cluster.b2bshift\_cluster: Destroying... [id=projects/composite-rune-470721-n2/regions/us-central1/clusters/b2bshift-spark-cluster-prod]*

*google\_dataflow\_job.csv\_to\_bigquery: Creating...*

*google\_dataflow\_job.streaming\_processor: Creating...*

*google\_vertex\_ai\_featurestore\_entitytype.customer\_entity: Modifying... [id=projects/composite-rune-470721-n2/locations/us-central1/featurestores/customer\_features\_store/entityTypes/customer]*

*google\_vertex\_ai\_featurestore\_entitytype.customer\_entity: Modifications complete after 2s [id=projects/composite-rune-470721-n2/locations/us-central1/featurestores/customer\_features\_store/entityTypes/customer]*

*google\_dataflow\_job.streaming\_processor: Creation complete after 3s [id=2025-08-31\_16\_43\_06-17816587276177855506]*

*google\_dataflow\_job.csv\_to\_bigquery: Creation complete after 3s [id=2025-08-31\_16\_43\_06-4406627218914284247]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still destroying... [id=projects/composite-rune-470721-n2/regio...1/clusters/b2bshift-spark-cluster-prod, 00m10s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still destroying... [id=projects/composite-rune-470721-n2/regio...1/clusters/b2bshift-spark-cluster-prod, 00m20s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still destroying... [id=projects/composite-rune-470721-n2/regio...1/clusters/b2bshift-spark-cluster-prod, 00m30s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still destroying... [id=projects/composite-rune-470721-n2/regio...1/clusters/b2bshift-spark-cluster-prod, 00m40s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still destroying... [id=projects/composite-rune-470721-n2/regio...1/clusters/b2bshift-spark-cluster-prod, 00m50s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still destroying... [id=projects/composite-rune-470721-n2/regio...1/clusters/b2bshift-spark-cluster-prod, 01m00s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Destruction complete after 1m3s*

*google\_dataproc\_cluster.b2bshift\_cluster: Creating...*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [00m10s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [00m20s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [00m30s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [00m40s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [00m50s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [01m00s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [01m10s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [01m20s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [01m30s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [01m40s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [01m50s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [02m00s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [02m10s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [02m20s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [02m30s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [02m40s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [02m50s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [03m00s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [03m10s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [03m20s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [03m30s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [03m40s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [03m50s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [04m00s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Still creating... [04m10s elapsed]*

*google\_dataproc\_cluster.b2bshift\_cluster: Creation complete after 4m19s [id=projects/composite-rune-470721-n2/regions/us-central1/clusters/b2bshift-spark-cluster-prod]*

*Apply complete! Resources: 3 added, 1 changed, 1 destroyed.*

*Outputs:*

*bigquery\_datasets = {*

*"b2bshift\_analytics" = {*

*"id" = "projects/composite-rune-470721-n2/datasets/b2bshift\_analytics"*

*"location" = "us-central1"*

*"self\_link" = "https://bigquery.googleapis.com/bigquery/v2/projects/composite-rune-470721-n2/datasets/b2bshift\_analytics"*

*}*

*"b2bshift\_raw" = {*

*"id" = "projects/composite-rune-470721-n2/datasets/b2bshift\_raw"*

*"location" = "us-central1"*

*"self\_link" = "https://bigquery.googleapis.com/bigquery/v2/projects/composite-rune-470721-n2/datasets/b2bshift\_raw"*

*}*

*"b2bshift\_refined" = {*

*"id" = "projects/composite-rune-470721-n2/datasets/b2bshift\_refined"*

*"location" = "us-central1"*

*"self\_link" = "https://bigquery.googleapis.com/bigquery/v2/projects/composite-rune-470721-n2/datasets/b2bshift\_refined"*

*}*

*"b2bshift\_trusted" = {*

*"id" = "projects/composite-rune-470721-n2/datasets/b2bshift\_trusted"*

*"location" = "us-central1"*

*"self\_link" = "https://bigquery.googleapis.com/bigquery/v2/projects/composite-rune-470721-n2/datasets/b2bshift\_trusted"*

*}*

*}*

*bigquery\_tables = {*

*"customer\_master" = {*

*"dataset" = "b2bshift\_raw"*

*"full\_id" = "composite-rune-470721-n2.b2bshift\_raw.customer\_master"*

*"table\_id" = "customer\_master"*

*}*

*"dim\_customer" = {*

*"dataset" = "b2bshift\_refined"*

*"full\_id" = "composite-rune-470721-n2.b2bshift\_refined.dim\_customer"*

*"table\_id" = "dim\_customer"*

*}*

*"sales\_proposals" = {*

*"dataset" = "b2bshift\_raw"*

*"full\_id" = "composite-rune-470721-n2.b2bshift\_raw.sales\_proposals"*

*"table\_id" = "sales\_proposals"*

*}*

*}*

*composer\_environment = {*

*"airflow\_uri" = "https://89f0e978bca54e6c8ad37b43abecb321-dot-us-central1.composer.googleusercontent.com"*

*"gcs\_bucket" = "gs://us-central1-b2bshift-compos-414f9fe1-bucket/dags"*

*"name" = "b2bshift-composer-prod"*

*}*

*dataflow\_jobs = {*

*"csv\_to\_bigquery" = {*

*"job\_id" = "2025-08-31\_16\_43\_06-4406627218914284247"*

*"name" = "b2bshift-csv-to-bigquery"*

*"state" = "JOB\_STATE\_PENDING"*

*}*

*"streaming\_processor" = {*

*"job\_id" = "2025-08-31\_16\_43\_06-17816587276177855506"*

*"name" = "b2bshift-streaming-processor"*

*"state" = "JOB\_STATE\_PENDING"*

*}*

*}*

*dataflow\_temp\_bucket = "gs://dataflow-temp-composite-rune-470721-n2"*

*dataplex\_lake = {*

*"id" = "projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod"*

*"name" = "b2bshift-data-lake-prod"*

*"uid" = "b358d1e6-d476-4c42-80b9-4462c90f61e4"*

*}*

*dataplex\_zones = {*

*"curated\_zone" = {*

*"id" = "projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/curated-data-zone"*

*"name" = "curated-data-zone"*

*}*

*"raw\_zone" = {*

*"id" = "projects/composite-rune-470721-n2/locations/us-central1/lakes/b2bshift-data-lake-prod/zones/raw-data-zone"*

*"name" = "raw-data-zone"*

*}*

*}*

*dataproc\_autoscaling\_policy = {*

*"id" = "projects/composite-rune-470721-n2/locations/us-central1/autoscalingPolicies/b2bshift-autoscaling-policy"*

*"name" = "projects/composite-rune-470721-n2/regions/us-central1/autoscalingPolicies/b2bshift-autoscaling-policy"*

*}*

*dataproc\_cluster = {*

*"master\_instance\_names" = tolist([*

*"b2bshift-spark-cluster-prod-m",*

*])*

*"name" = "b2bshift-spark-cluster-prod"*

*"region" = "us-central1"*

*"worker\_instance\_names" = tolist([*

*"b2bshift-spark-cluster-prod-w-0",*

*"b2bshift-spark-cluster-prod-w-1",*

*])*

*}*

*enabled\_apis = [*

*"aiplatform.googleapis.com",*

*"bigquery.googleapis.com",*

*"cloudbuild.googleapis.com",*

*"composer.googleapis.com",*

*"compute.googleapis.com",*

*"dataflow.googleapis.com",*

*"dataplex.googleapis.com",*

*"dataproc.googleapis.com",*

*"iam.googleapis.com",*

*"notebooks.googleapis.com",*

*"storage-api.googleapis.com",*

*]*

*featurestore = {*

*"id" = "projects/composite-rune-470721-n2/locations/us-central1/featurestores/customer\_features\_store"*

*"name" = "customer\_features\_store"*

*}*

*project\_info = {*

*"environment" = "prod"*

*"project\_id" = "composite-rune-470721-n2"*

*"project\_number" = "565386878204"*

*"region" = "us-central1"*

*"zone" = "us-central1-a"*

*}*

*pubsub\_topics = {*

*"data\_ingestion" = {*

*"id" = "projects/composite-rune-470721-n2/topics/b2bshift-data-ingestion"*

*"name" = "b2bshift-data-ingestion"*

*}*

*"dead\_letter" = {*

*"id" = "projects/composite-rune-470721-n2/topics/b2bshift-dead-letter"*

*"name" = "b2bshift-dead-letter"*

*}*

*}*

*quick\_access\_urls = {*

*"airflow\_ui" = "https://89f0e978bca54e6c8ad37b43abecb321-dot-us-central1.composer.googleusercontent.com"*

*"bigquery\_console" = "https://console.cloud.google.com/bigquery?project=composite-rune-470721-n2"*

*"composer\_console" = "https://console.cloud.google.com/composer/environments?project=composite-rune-470721-n2"*

*"dataflow\_console" = "https://console.cloud.google.com/dataflow/jobs?project=composite-rune-470721-n2"*

*"dataplex\_console" = "https://console.cloud.google.com/dataplex?project=composite-rune-470721-n2"*

*"dataproc\_console" = "https://console.cloud.google.com/dataproc/clusters?project=composite-rune-470721-n2"*

*"jupyter\_notebook" = "Workbench instance temporarily disabled - create manually in console"*

*"storage\_console" = "https://console.cloud.google.com/storage/browser?project=composite-rune-470721-n2"*

*"vertex\_ai\_console" = "https://console.cloud.google.com/vertex-ai?project=composite-rune-470721-n2"*

*}*

*scripts\_bucket = "gs://b2bshift-scripts-composite-rune-470721-n2-prod"*

*service\_accounts = {*

*"composer" = "b2bshift-composer-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*"dataflow" = "b2bshift-dataflow-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*"dataplex" = "b2bshift-dataplex-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*"dataproc" = "b2bshift-dataproc-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*"vertex\_ai" = "b2bshift-vertex-ai-sa@composite-rune-470721-n2.iam.gserviceaccount.com"*

*}*

*storage\_buckets = {*

*"archive-zone-composite-rune-470721-n2-prod" = "gs://archive-zone-composite-rune-470721-n2-prod"*

*"landing-zone-composite-rune-470721-n2-prod" = "gs://landing-zone-composite-rune-470721-n2-prod"*

*"raw-zone-composite-rune-470721-n2-prod" = "gs://raw-zone-composite-rune-470721-n2-prod"*

*"refined-zone-composite-rune-470721-n2-prod" = "gs://refined-zone-composite-rune-470721-n2-prod"*

*"trusted-zone-composite-rune-470721-n2-prod" = "gs://trusted-zone-composite-rune-470721-n2-prod"*

*}*

*vertex\_ai\_datasets = {*

*"churn\_prediction" = {*

*"id" = "projects/565386878204/locations/us-central1/datasets/6407295708969304064"*

*"name" = "projects/565386878204/locations/us-central1/datasets/6407295708969304064"*

*}*

*"customer\_segmentation" = {*

*"id" = "projects/565386878204/locations/us-central1/datasets/4882827235104391168"*

*"name" = "projects/565386878204/locations/us-central1/datasets/4882827235104391168"*

*}*

*}*

*vertex\_ai\_endpoint = {*

*"id" = "projects/composite-rune-470721-n2/locations/us-central1/endpoints/b2bshift-customer-insights-endpoint"*

*"name" = "b2bshift-customer-insights-endpoint"*

*}*