

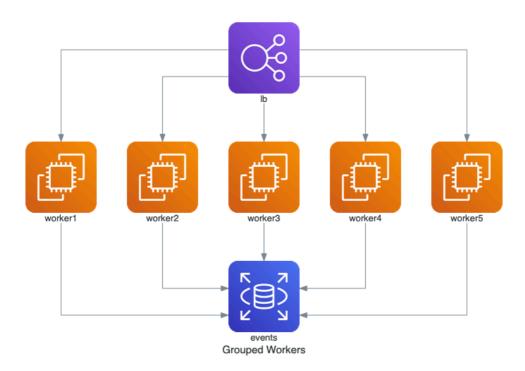
> Getting Started

0

Examples

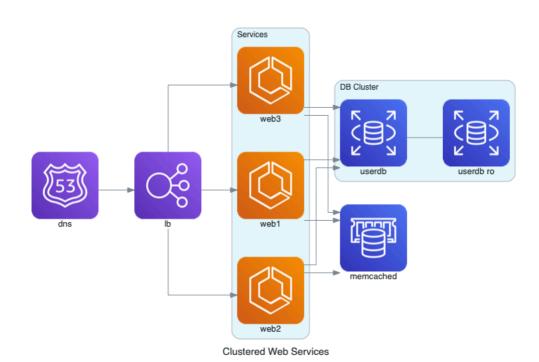
Here are some more examples.

Grouped Workers on AWS





```
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Docs
from diagrams.aws.database import ElastiCache, RDS
from diagrams.aws.network import ELB
from diagrams.aws.network import Route53
with Diagram("Clustered Web Services", show=False):
   dns = Route53("dns")
   lb = ELB("lb")
   with Cluster("Services"):
       svc_group = [ECS("web1"),
                    ECS("web2"),
                    ECS("web3")1
   with Cluster("DB Cluster"):
       db_primary = RDS("userdb")
       db_primary - [RDS("userdb ro")]
   memcached = ElastiCache("memcached")
   dns >> lb >> svc_group
   svc_group >> db_primary
   svc_group >> memcached
```

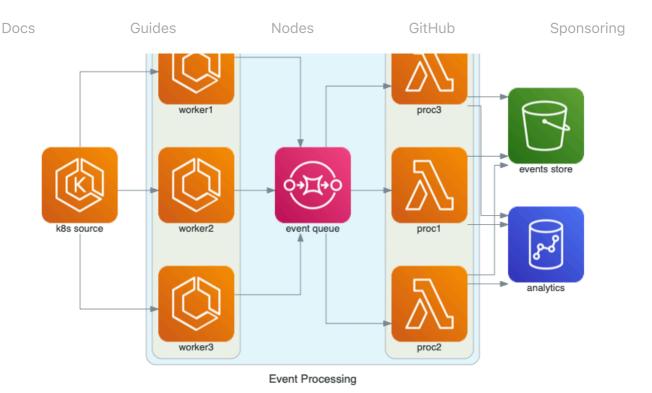


Event Processing on AWS



```
from diagrams.aws.storage import S3
with Diagram("Event Processing", show=False):
    source = EKS("k8s source")
    with Cluster("Event Flows"):
        with Cluster("Event Workers"):
            workers = [ECS("worker1"),
                       ECS("worker2"),
                       ECS("worker3")]
        queue = SQS("event queue")
        with Cluster("Processing"):
            handlers = [Lambda("proc1"),
                        Lambda("proc2"),
                        Lambda("proc3")]
    store = S3("events store")
    dw = Redshift("analytics")
    source >> workers >> queue >> handlers
    handlers >> store
    handlers >> dw
```





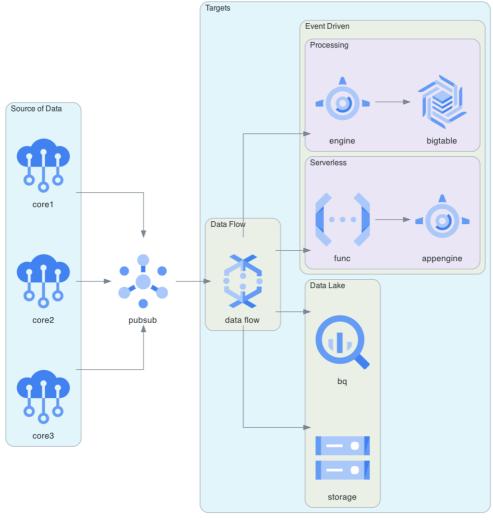
Message Collecting System on GCP

```
from diagrams import Cluster, Diagram
from diagrams.gcp.analytics import BigQuery, Dataflow, PubSub
from diagrams.gcp.compute import AppEngine, Functions
from diagrams.gcp.database import BigTable
from diagrams.gcp.iot import IotCore
from diagrams.gcp.storage import GCS
with Diagram("Message Collecting", show=False):
    pubsub = PubSub("pubsub")
    with Cluster("Source of Data"):
        [IotCore("core1"),
         IotCore("core2"),
         IotCore("core3")] >> pubsub
    with Cluster("Targets"):
        with Cluster("Data Flow"):
            flow = Dataflow("data flow")
        with Cluster("Data Lake"):
            flow >> [BigQuery("bq"),
                     GCS("storage")]
```



flow >> Functions("func") >> AppEngine("appengine")

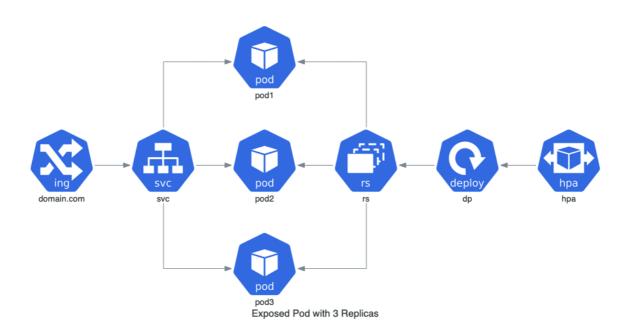
pubsub >> flow



Message Collecting

Exposed Pod with 3 Replicas on Kubernetes



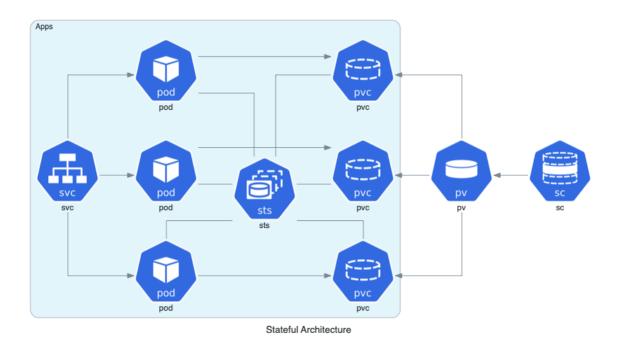


Stateful Architecture on Kubernetes

```
from diagrams import Cluster, Diagram
from diagrams.k8s.compute import Pod, StatefulSet
from diagrams.k8s.network import Service
from diagrams.k8s.storage import PV, PVC, StorageClass
with Diagram("Stateful Architecture", show=False):
    with Cluster("Apps"):
        svc = Service("svc")
        sts = StatefulSet("sts")

    apps = []
    for _ in range(3):
        pod = Pod("pod")
        pvc = PVC("pvc")
        pod - sts - pvc
```



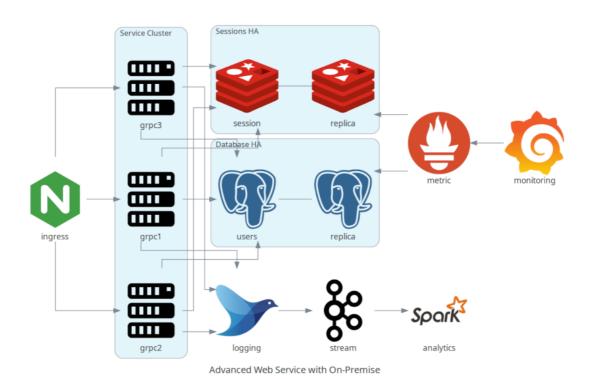


Advanced Web Service with On-Premise

```
from diagrams import Cluster, Diagram
from diagrams.onprem.analytics import Spark
from diagrams.onprem.compute import Server
from diagrams.onprem.database import PostgreSQL
from diagrams.onprem.inmemory import Redis
from diagrams.onprem.aggregator import Fluentd
from diagrams.onprem.monitoring import Grafana, Prometheus
from diagrams.onprem.network import Nginx
from diagrams.onprem.queue import Kafka
with Diagram("Advanced Web Service with On-Premise", show=False):
    ingress = Nginx("ingress")
    metrics = Prometheus("metric")
    metrics << Grafana("monitoring")</pre>
    with Cluster("Service Cluster"):
        grpcsvc = [
            Server("grpc1"),
            Server("grpc2"),
            Server("grpc3")]
    with Cluster("Sessions HA"):
```



ingress >> grpcsvc >> aggregator

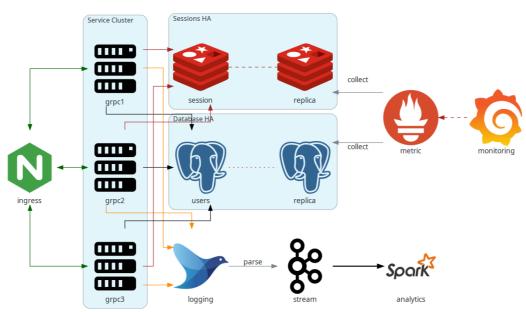


Advanced Web Service with On-Premise (with colors and labels)

```
from diagrams import Cluster, Diagram, Edge
from diagrams.onprem.analytics import Spark
from diagrams.onprem.compute import Server
from diagrams.onprem.database import PostgreSQL
from diagrams.onprem.inmemory import Redis
from diagrams.onprem.aggregator import Fluentd
from diagrams.onprem.monitoring import Grafana, Prometheus
from diagrams.onprem.network import Nginx
from diagrams.onprem.queue import Kafka
```



```
with Cluster("Service Cluster"):
    qrpcsvc = [
        Server("grpc1"),
        Server("grpc2"),
        Server("grpc3")]
with Cluster("Sessions HA"):
    primary = Redis("session")
    primary - Edge(color="brown", style="dashed") - Redis("replica") << Edge</pre>
    grpcsvc >> Edge(color="brown") >> primary
with Cluster("Database HA"):
    primary = PostgreSQL("users")
    primary - Edge(color="brown", style="dotted") - PostgreSQL("replica") <<</pre>
    grpcsvc >> Edge(color="black") >> primary
aggregator = Fluentd("logging")
aggregator >> Edge(label="parse") >> Kafka("stream") >> Edge(color="black",
ingress >> Edge(color="darkgreen") << grpcsvc >> Edge(color="darkorange") >>
```



Advanced Web Service with On-Premise (colored)



Docs Guides Nodes GitHub Sponsoring from diagrams import Cluster, Diagram from diagrams.aws.database import Aurora from diagrams.custom import Custom from diagrams.k8s.compute import Pod # Download an image to be used into a Custom Node class rabbitmq_url = "https://jpadilla.github.io/rabbitmqapp/assets/img/icon.png" rabbitmq_icon = "rabbitmq.png" urlretrieve(rabbitmq_url, rabbitmq_icon) with Diagram("Broker Consumers", show=False): with Cluster("Consumers"): consumers = [Pod("worker"), Pod("worker"), Pod("worker")] queue = Custom("Message queue", rabbitmq_icon) queue >> consumers >> Aurora("Database")



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Nodes

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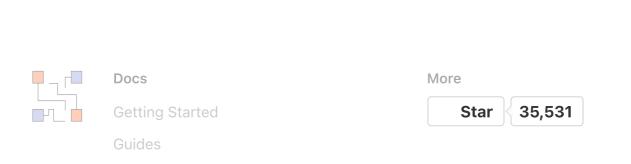
Pod worker

Database

RabbitMQ Consumers

Last updated on 8/12/2021

DIAGRAMS →



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