Simplifying Multi Cloud Observability with OTel

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Agenda

1. What is the Problem ?
2. How Open Telemetry can help
3. Architecture
4. Live Example
5. Conclusion

```
public void EmitToGCP()
{
    // Google Cloud Monitoring client initialization
    var client = MetricServiceClient.Create();
}

public void EmitToDataDog()
{
    // Initialize DataDog with API key
    var dogStatsdService = new DogStatsdService();
}

public void EmitToAzure()
{
    // Initialize Azure Monitor client
    var client = new MetricsClient(new, TokenCredentials("auth-token"));
}
```

Complexity

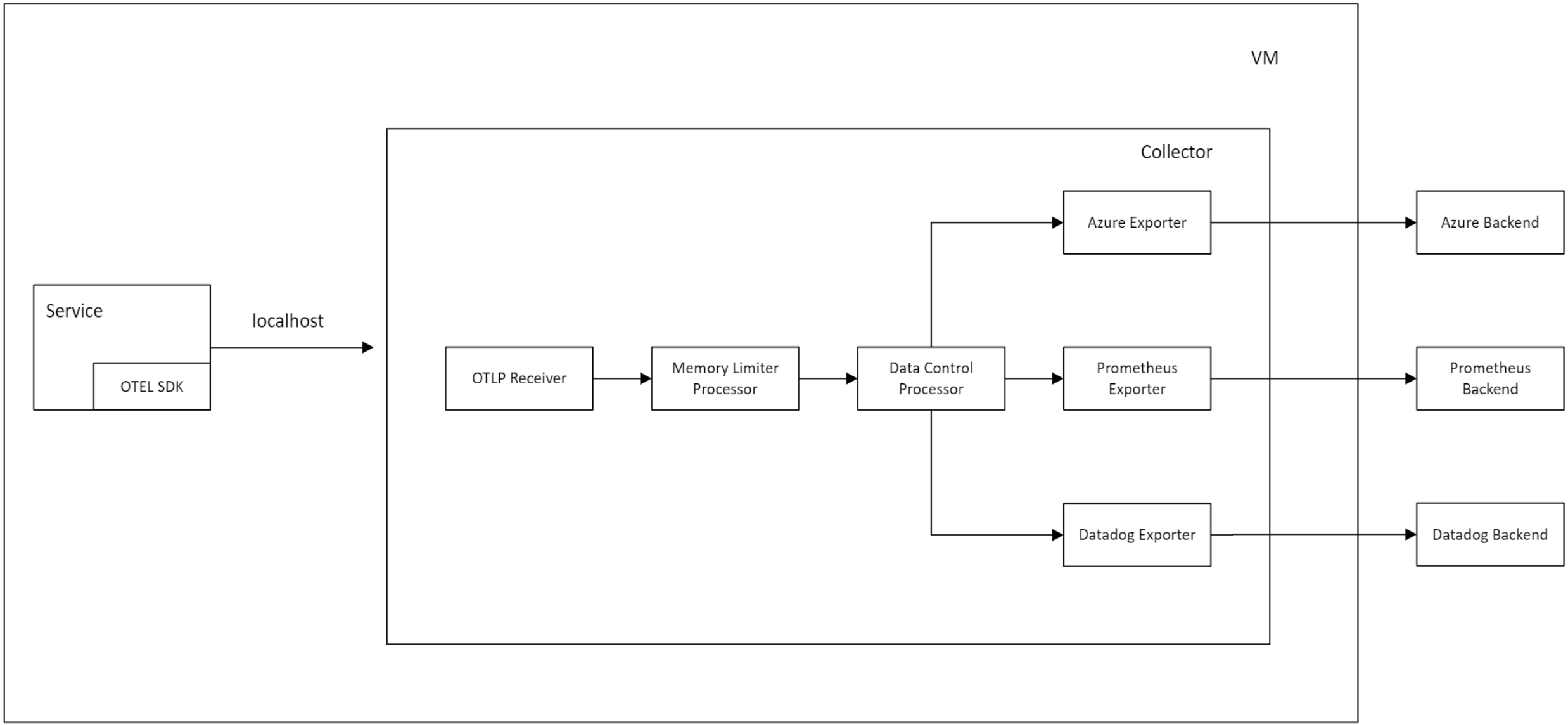
- Understanding various providers Observability implementations
  - Maintaining SDKs
  - Varied Schemas

Cloud Native Open Telemetry

Provides single open-source standard to export Metrics, Logs and Traces

Major cloud providers like AWS, Azure, GCP and Oracle support this CNCF project.

Vendor agnostic.


VM
Collector
Service
OTEL SDK
localhost
OTLP Receiver
Memory Limiter Processor
Data Control Processor
Azure Exporter
Prometheus Exporter
Datadog Exporter
Azure Backend
Prometheus Backend
Datadog Backend

Conclusion

- Multi Cloud architecture demands for workloads across clouds.
- Open Telemetry provides standard way to collect observability data.

Thank you