

Streaming Processing Concepts 相关链接

Streaming 101:
<https://www.oreilly.com/ideas/the-world-beyond-batch-streaming-101>

Streaming 102:
<https://www.oreilly.com/ideas/the-world-beyond-batch-streaming-102>

Architecture 相关链接

Flink Runtime 核心类库链接:
<http://github.com/flink-china/flink-training-course2?flink-runtime=Ac0a4b87681b763610e04b83a5e589b8165a9949a629c2a0>

layered-apps:
<http://github.com/flink-applications/toml-layered-apps>

Components of a Flink Setup:
<http://d.apache.org/projects/flink/flink-docs-release-1.9/concepts/runtime/flink-jobs-managers-task-managers-overview/>

Operators:
<http://d.apache.org/projects/flink/flink-docs-release-1.9/concepts/runtime/flink-operators-and-operator-chains/>

Setting Parallelism:
<http://d.apache.org/projects/flink/flink-docs-stable/dev/parallelism/parallel-elastic/>

Task Failure Recovery:
http://d.apache.org/projects/flink/flink-docs-release-1.9/dev/task_failure_recovery.html

Slots and Resources:
<http://d.apache.org/projects/flink/flink-docs-release-1.9/concepts/runtime/flink-task-slots-and-resources/>

State Management 相关链接

有状态式微服务集合介绍：<https://www.zibllab.com/index/a6427903>

Flink State 最佳实践：
<https://github.com/flink-china/flink-team-ingroup1941/Flink-state-idea/blob/master/ENGLISH/ENGLISH%20-%20Flink%20-%20SUGGESTIONS.md#state-management>

State Unlocked：Interacting With State in Apache Flink：
<https://cucapiche.org/news/2020/01/29/state-unlocked-interacting-with-state-in-apache-flink.html>

State Backends：
https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/state_backends.html

Operator State：
https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/flink_operator_state.html

A Practical Guide to Broadcast State in Apache Flink：
<https://flink.apache.org/2020/09/02/broadcast-state.html>

The Broadcast State Pattern：
https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/broadcast_state.html

Keyed State：
<https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/keyed-state.html#keyed-state>

Checkpointing：
<https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/checkpointing.html>

An Overview of End-to-End Exactly-Once Processing in Apache Flink：
<https://flink.apache.org/features/2018/04/01/end-to-end-exactly-once-processing-a-flink.html>

An Intro to Incremental Checkpointing：
https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/incremental_checkpointing.html

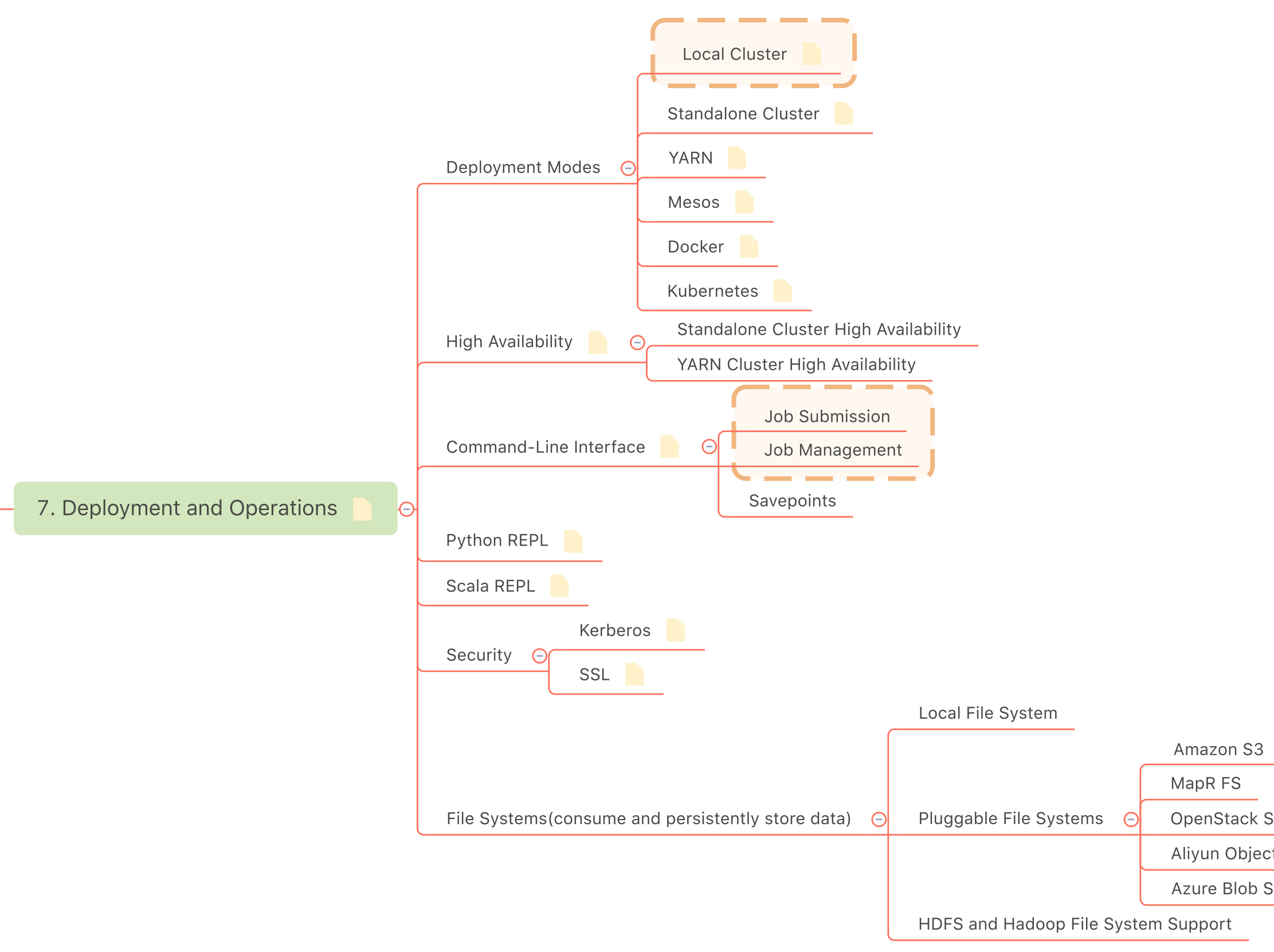
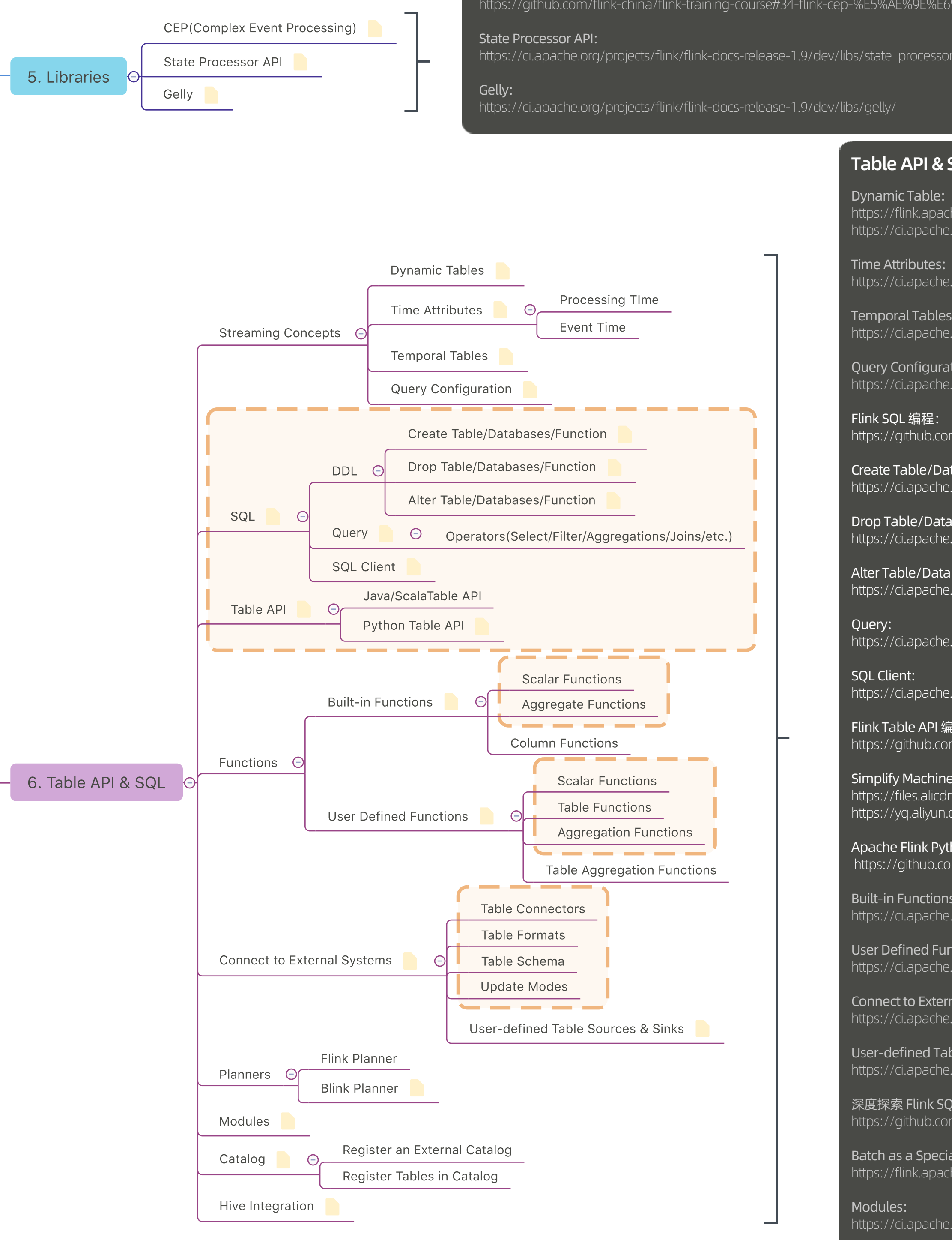
Savepoints：
<https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/savepoints.html>

A Deep Dive Into Rescalable State in Apache Flink：
<https://flink.apache.org/features/2017/07/04/flink-resizable-state.html>

Queryable State：
https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/queryable_state.html

Schema Evolution：
https://cucapiche.org/projects/flink/docs/release-1.9/dev/stream/state/schema_evolution.html

Stateless Process API 介绍与案例：
<https://github.com/flink-china/flink-team-ingroup1941/Flink-state-idea/blob/master/ENGLISH/ENGLISH%20-%20Flink%20-%20SUGGESTIONS.md#stateless-process-api>



Deployment and Operations 相关链接

Find a component, troubleshoot and learn how to use it:

- <https://github.com/microsoft/rfxkit>
- <https://github.com/microsoft/rfxkit/blob/master/docs/CONTRIBUTING.md#contributing-to-rfxkit>
- <https://github.com/microsoft/rfxkit/blob/master/docs/README.md#readme>

Local Cluster:

- <https://github.com/projects/rfxkit/rfxkit-does-master/cpo/deployment/local.html>

Standalone Cluster:

- https://github.com/projects/rfxkit/rfxkit-does-master/cpo/deployment/cluster_setup.html

YARN:

- https://github.com/projects/rfxkit/rfxkit-does-master/cpo/deployment/yarn_setup.html

Mezos:

- <https://github.com/projects/rfxkit/rfxkit-does-master/cpo/deployment/mez.html>

Introducing debug images for Apache REX:

- <https://github.com/microsoft/rfxkit/blob/master/docs/CONTRIBUTING.md#contributing-to-rfxkit>

Running Apache REX on Kubernetes with KUDO:

- <https://github.com/microsoft/rfxkit/blob/master/docs/CONTRIBUTING.md#contributing-to-rfxkit>

High Availability:

- https://github.com/projects/rfxkit/rfxkit-does-master/cpo/jobmanager_high_availability.html

Command-Line Interface:

- <https://github.com/projects/rfxkit/rfxkit-does-master/cpo/cli.html>

Python REPL:

- https://github.com/projects/rfxkit/rfxkit-does-master/cpo/python_shell.html

Scala REPL:

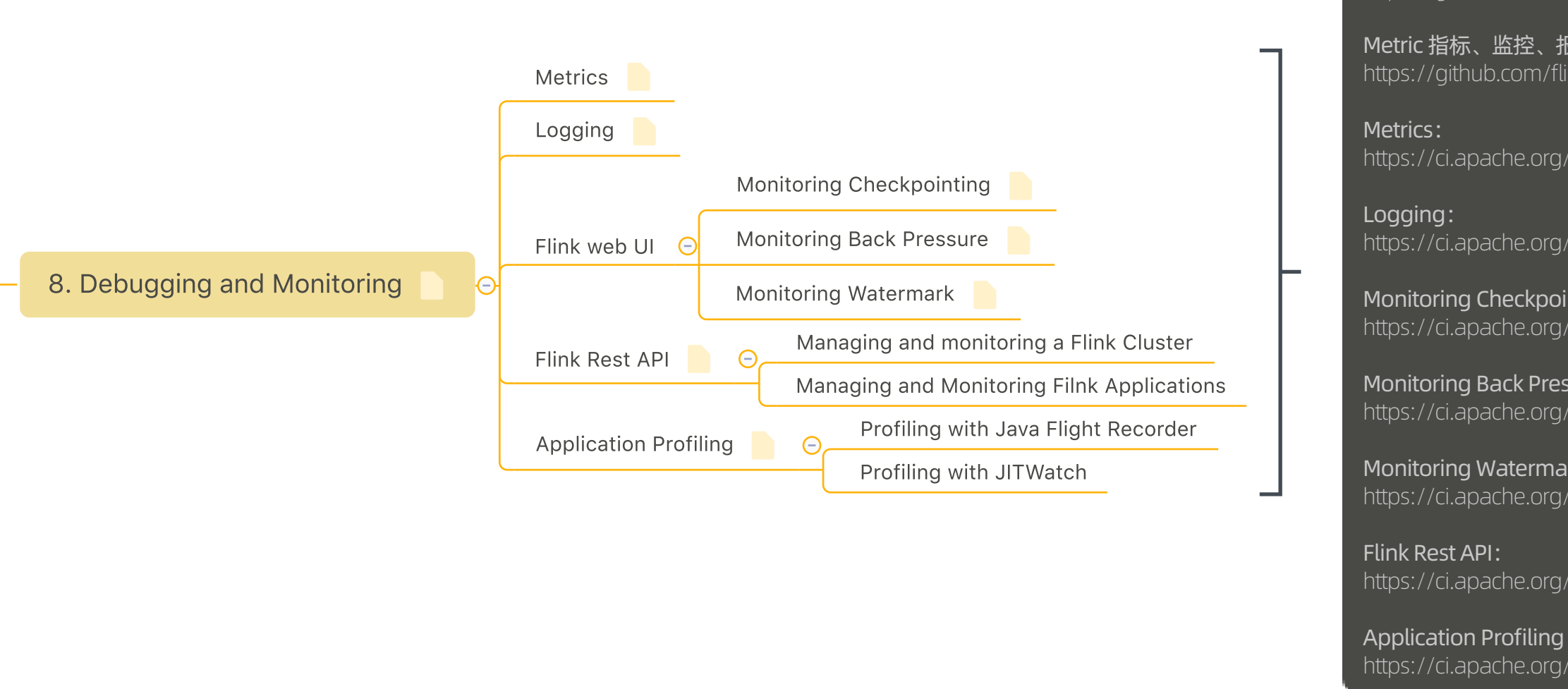
- https://github.com/projects/rfxkit/rfxkit-does-master/cpo/scala_shell.html

Kerberos:

- <https://github.com/projects/rfxkit/rfxkit-does-master/cpo/security/kerberos.html>

SSL:

- <https://github.com/projects/rfxkit/rfxkit-does-master/cpo/security/ssl.html>



Debugging and Monitoring 相关链接

Metrics 与日志:

- <https://github.com/fnk/china-flink-training-course?tab=readme-ov-file#metrics>

Metric 指标、推送、报警:

- <https://github.com/fnk/china-flink-training-course?tab=readme-ov-file#metric-readme-ov-file#metric-push-and-alert>

Metrics:

- <https://0.apache.org/projects/flink/flink-docs-master/monitoring/metrics.html>

Logging:

- <https://0.apache.org/projects/flink/flink-docs-master/monitoring/logging.html>

Monitoring Checkpointing:

- https://0.apache.org/projects/flink/flink-docs-master/monitoring/checkpoint_monitoring.html

Monitoring Back Pressure:

- https://0.apache.org/projects/flink/flink-docs-master/monitoring/back_pressure.html

Monitoring Watermark:

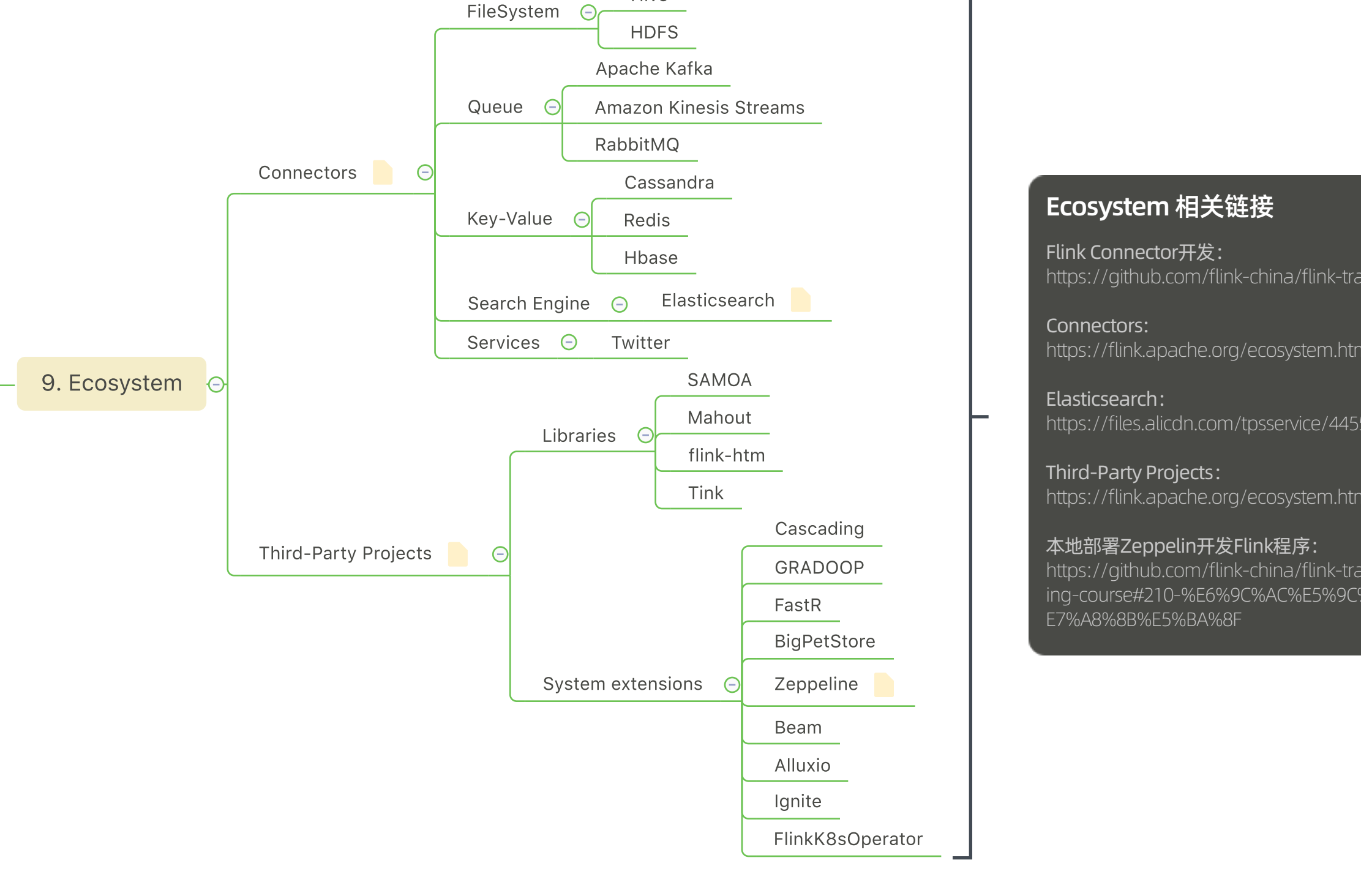
- https://0.apache.org/projects/flink/flink-docs-master/monitoring/debugging_watermark_time.html

Flink Rest API:

- https://0.apache.org/projects/flink/flink-docs-master/monitoring/rest_api.html

Application Profiling:

- https://0.apache.org/projects/flink/flink-docs-master/monitoring/application_profiling.html



Ecosystem相关链接

Link Connector 资源库
<https://github.com/link-china/link-training-course/29-link-connectors#96596c609e5968f970>

Connectors:
<https://link.apache.org/ecosystem/html/connectors>

Elasticsearch:
<https://issues.apache.org/jira/browse/ELAP-399808031076471e5975.pdf>

Third-Party Projects:
<https://github.com/link-china/established-party-projects>

本社区对Elasticsearch资源库:
<https://github.com/link-china/link-training-course/20-96596c609e5968f970#96596c609e5968f97011e5975.pdf>

Use Cases 相关链接

- Heart detection 学习案例：
https://id.17f1-forward.org/16_sessions/learning-mod-twig-ing-ssds-models-to-run-time-to-catch-fraudsters/
- Anomaly detection 学习案例：
https://id.2017-f1-forward.org/16_sessions/building-a-real-time-anomaly-detection-system-with-flink-rd/
- Rule-based alerting 学习案例：
https://id.2017-f1-forward.org/16_sessions/dynamically-configured-rules-processing-with-flink-sql/
- Business process monitoring 学习案例：
<https://github.com/17f1-forward/complex-event-orientation-for-business-process-monitoring-with-flink-apache-f1/>
- Web application (social network) 学习案例：
https://id.2017-f1-forward.org/16_sessions/streams-on-distributed-kubernetes-architecture-with-apache-f1/
- Quality monitoring of Telenor networks 学习案例：
https://id.2016-f1-forward.org/16_sessions/a-brief-history-of-continuous-time-series-analysis-with-flink-rd/

