CYCLONE Networking Architecture for Multi-cloud Applications

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CYCLONE Multi-cloud Infrastructure for Data Intensive Applications

The CYCLONE Intercloud Architecture Framework addresses challenges related to heterogeneous multi-cloud applications:

- Multi-layer cloud resource integration, access control, management, and logging for multi-cloud applications
- On-demand multi-provider cloud service and infrastructure provisioning and life cycle management (composition, (re-)deployment, management, and monitoring)
- Intra- and inter-cloud network provisioning between clouds, delivered as inter-cloud/multi-domain Virtual Private Network (VPN)
- Access control, security credentials, and security context management covering the whole application life cycle
- Federated access to distributed multi-cloud resources, integrating application-based and cloud-based security services
- Data protection, including protection of data transfer between clouds as well as data storage in-rest.

CYCLONE approach:

- Network Services are built as overlay networks, created as a part of cloud application and working transparently on top of the underlying physical infrastructure.

References


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For more information refer to

CYCLONE website - http://www.cyclone-project.eu/
CYCLONE github - https://github.com/cyclone-project