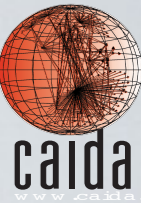


# Detecting and Characterizing Internet Traffic Interception based on BGP Hijacking

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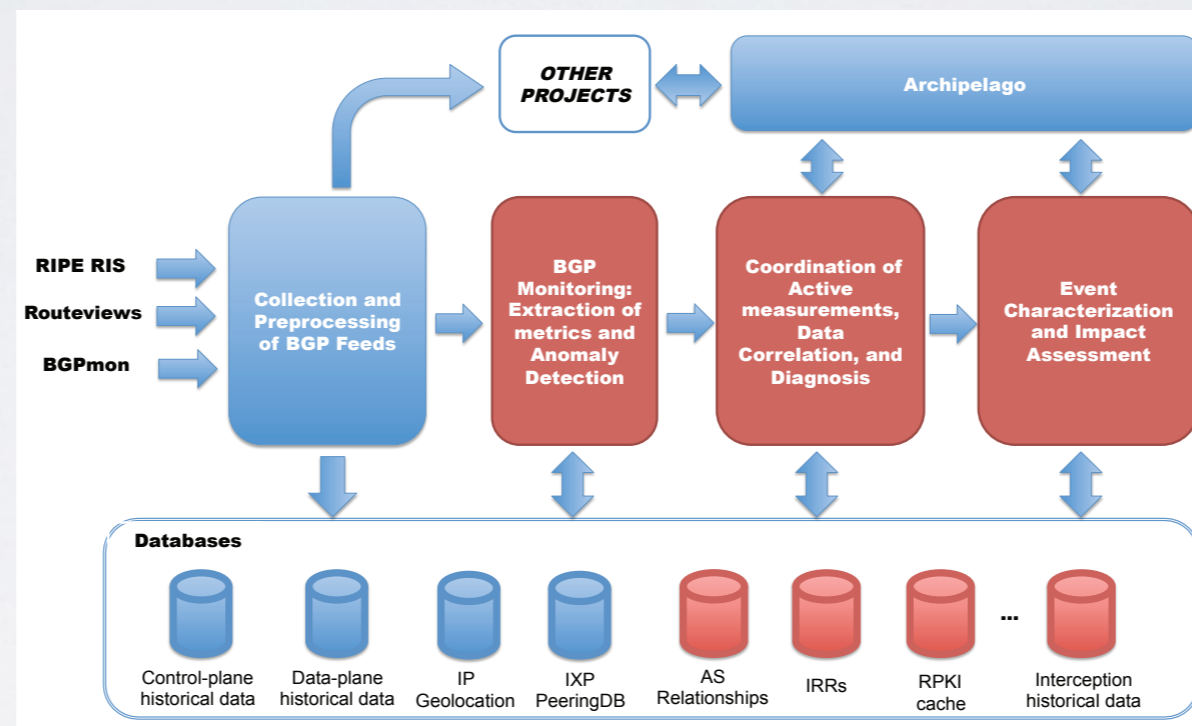


## Challenge

- Near-realtime detection of traffic interception attacks based on BGP prefix hijacking
- Global view

## Solution

- Detect suspicious events on the control plane; trigger data-plane active measurements.
- Auxiliary datasets (e.g., AS relationships) to assist with classification of events
- Modular system



High-level view of the components of the detection and classification system

## Scientific Impact

- Methodology for near-realtime detection of BGP-based traffic interception attacks
- Reference datasets of anomalies

## Broader Impact

- Publications and presentations at conferences
- Open source, re-usable software (BGPStream)
- BGP Hackathon 2016