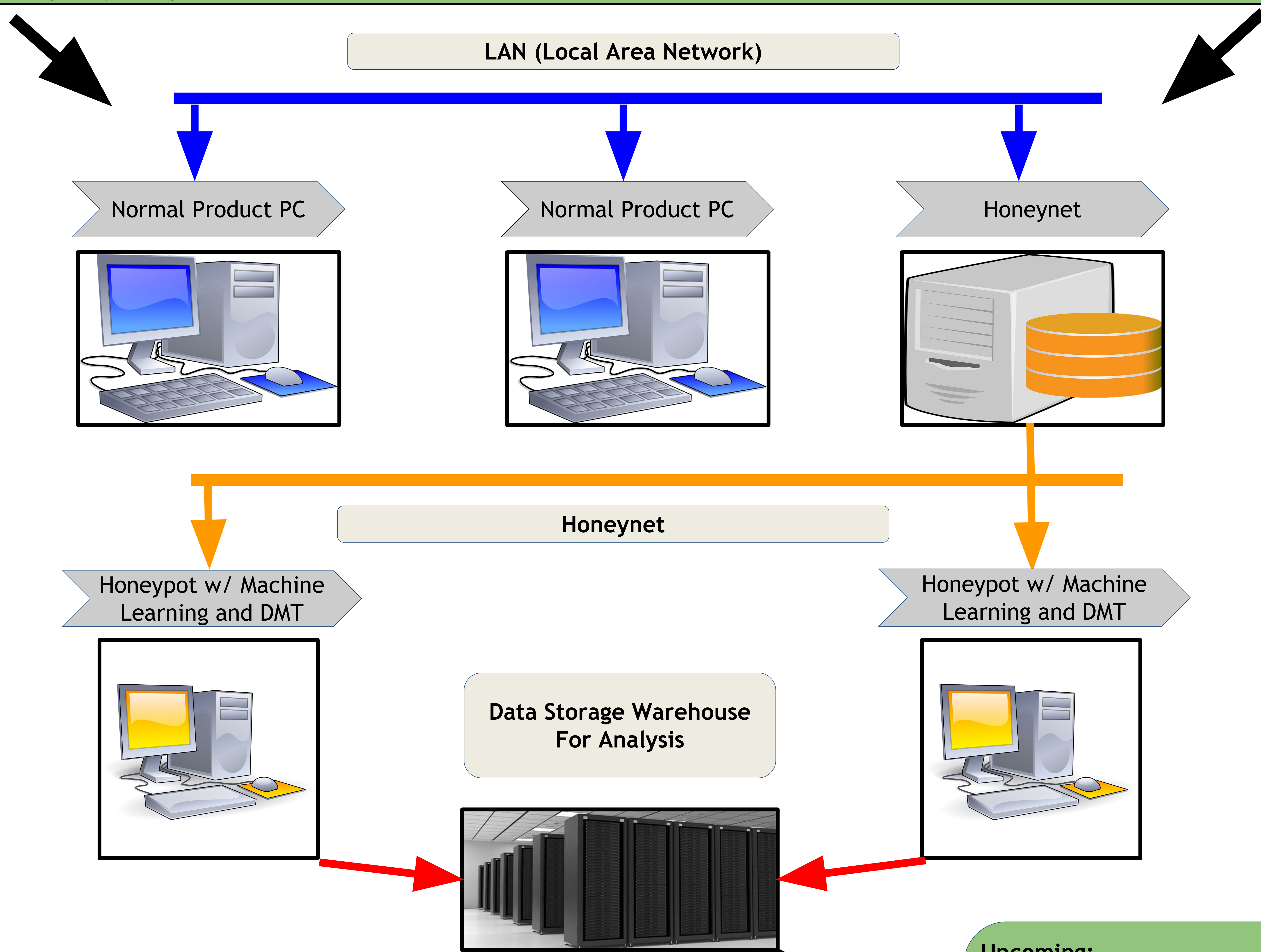


## Exploring Deception with Machine Learning and Data Mining

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### Problem Statement:

- Only 2-3%<sup>1</sup> of companies share breach info, which could hold useful information that could be beneficial for threat detection/prevention companies
- Current deception software allows information to be observed, but not stored<sup>2</sup>
- General understanding of the techniques used by data mining tools is limited for cyber security, due to what they were originally designed for<sup>3</sup>



**Upcoming:**

- Further investigation into costs lost/gained, reliability lost/gained, time lost/gained, etc.
- Tests using deceptive software with machine learning applied to it.

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2. Richardson, R. (2015). *Security startups tackle the art of deception techniques*. SearchSecurity. Retrieved 3 April 2016, from <http://searchsecurity.techtarget.com/opinion/Security-startups-tackle-the-art-of-deception-techniques>
3. McKnight, W. (2007). *Data mining tools*. SearchBusinessAnalytics. Retrieved 3 April 2016, from <http://searchbusinessanalytics.techtarget.com/answer/Data-mining-tools-Advantages-and-disadvantages-of-implementation>