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Use of fuzzy logic for analysis of data storage systems' behavior on the Cloud

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Scope of fuzzy logic-based Cloud monitoring

- Variety of devices on the Cloud.
- Different computational tasks to run.
- Choosing the devices that best matches user's needs.
- Therefore our system should:
 - Classify devices according to their parameters' values.
 - Create new classifiers basing on example data classified by a user.
 - Predict future values and classify devices according to these values.



Objectives of our research

The main goal is the fuzzy logic-based system that classifies devices and predicts their future behavior:

- Gathering data - performed by an external system Zabbix
- Prediction – use of time series and regression
- Classification – by fuzzy logic module, learn from user-classified examples, possibility of changing classification with change of the rules.