

Usage of LPAR2RRD as a reporting and accounting tool in a huge environment

One of the world's largest logistic companies has decided to use **Infrastructure as a Service** (IaaS) for one of its key projects, instead of the classic CAPEX model (early of 2013). The crucial part of IaaS is IBM Power Systems platform with dozens of physical servers and hundreds of logical partitions (LPARs). Appropriate resource evidence in such environment is a key success driver for provider of IaaS and for the consumer as well.

Overall environment on Power Systems is built up on 36 physical IBM Power Systems 770 servers with more than 400 LPARs. In total there is **2304 installed IBM POWER 7+ cores** (end of 2014)!

One of the keystones of the whole IaaS service is to provide accurate reporting based on trusted and reliable data. The provider of IaaS has decided to use LPAR2RRD as a reporting tool for accounting purposes and for performance monitoring and reporting. Consequently, this tool became the core platform for collecting all allocation and performance data (running physical servers and LPARs with their consumed resources).

Main goals were:

- collection of accounting data as a baseline for monthly invoicing (consumed resources)
- performance monitoring of physical and logical servers
- capacity planning and reporting

Once LPAR2RRD with premium support was chosen as the reporting and monitoring platform, the provider started to work with developers of the tool on reports customizations. The customized reports enabled the customer to get all necessary inputs for managing costs, capacity and performance.

At the moment LPAR2RRD provides all required reports automatically via the web interface. It is used on day to day basis for reporting and performance monitoring. Consumed HW resources are reported monthly (1 hour resolution time) and are further used for billing purposes.

In such a complex environment, this tool enabled both contract parties to keep the infrastructure utilized at reasonable level, providing accurate reports and evidence for invoicing and future resource capacity planning.

Thanks to LPAR2RRD it is now much easier to manage this project on daily basis. This tool provides all required reports and evidence online and retrospectively. It allows the customer to manage costs and performance up to the application landscape level.