



# EPV TECHNOLOGIES NEWSLETTER

March 2018



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## TIP OF THE MONTH

*When comparing two sets of performance data, before drawing any conclusion, be sure that measurements refer to the same objects, have been taken in (about) the same conditions using the same tools and techniques.*

## TECH PAPERS

### WLM and Container Pricing - Part 1

In the last years WLM has been more and more involved in the many mechanism invented by IBM marketing people to provide ways to mitigate the z/OS environment software costs.

They started with the specialty engines (zAAP and zIIP) where WLM was marginally involved.

The next steps were the 4-hour rolling average mechanism and the soft capping technique implementation where WLM started playing a fundamental role in major software (e.g. z/OS, CICS, IMS, and Db2) cost control.

In 2014, IBM introduced Mobile Workload Pricing: a new pricing model designed "to mitigate the impact of mobile workloads on sub-capacity license charges and provide a more cost-competitive software".

The initial implementation was too complex for the customers to manage so it was not very successful. After a couple of years, IBM provided a much easier implementation of this pricing option involving WLM.

At the end of 2017, IBM announced Container Pricing.

"Container Pricing makes pricing simpler and more economical for qualified solutions. It's a framework for hosting simplified and

flexible software pricing for qualified solutions running on the z13 and z14 IBM processors, and allows specific workloads to be metered, reported on, and optionally capped, whether on a dedicated LPAR or colocated with existing workloads on an existing LPAR with no direct impact on your 4 Hour Rolling Average.”

The last part of the above sentence is the real innovation. With Container Pricing you may run qualified solutions, inside a logical container in the same LPAR where traditional workload run, and have a separate, lower price for the workload inside the container, without any direct impact on traditional workload pricing.

The burden of managing co-located qualified solutions is again charged to WLM.

Unfortunately, the technical implementation in WLM is, in this case, more complex and invasive.

In this paper, after a short description of the Container Pricing options, we will focus on the new WLM definitions required to manage and measure co-located workloads and on some issues that customers should be aware of.

Finally, we will discuss the most relevant new metrics available and some examples of the modifications to the existing reports that will be needed.

**If you want to receive the paper you can reply to this e-mail writing "WLM and Container Pricing - Part 1" in the subject**

## TECH NEWS

### EPV Israel User Group

The EPV Israel user group will take place on 29th April 2018 in Rehovot at Leonardo Boutique Hotel.

The EPV User Group is a "not to miss" event for IBM z System Managers, Db2 Managers, Data lake Managers and for MF manager of outsourced MF sites.

It will give you the opportunity to share ideas with qualified experts and to listen to some of the EPV customers experiences.

The relevant measurements and techniques, needed to analyze the new IBM hardware and software technologies, will be discussed.

The most interesting features provided by the latest versions of all

EPV products will also be presented.

The participation is free for EPV customers but you have to register by sending an email to [benny.tal@epvtech.com](mailto:benny.tal@epvtech.com) up to April 20th, 2018.

If you are not an EPV customers but you want to participate ask for an invitation by sending an email to [benny.tal@epvtech.com](mailto:benny.tal@epvtech.com)

Agenda available at:

<http://www.epvtech.com/Pagine/pagrisorse/news-events.html>

## TECH NOTES

### EPV for Db2 V14 entered MA

EPV for Db2 v14 is now in Managed Availability so it can be installed under EPV Technologies control.

It includes:

- z14 support

EPV for Db2 fully supports z14 machines. New MIPS tables are provided including benchmarks for all the available models.

MIPS tables for zIIP have also been added to allow users to easily set the appropriate zIIP capacity for their configuration.

- Db2 V12 support

New metrics have been added to support Db2 V12 functionalities, such as:

- > in-memory tables buffer pool overflow,
- > short prepare from catalog,
- > workfile users,
- > LOB compression delays,
- > new fast insert algorithm delays.

- Processing enhancements

Two important functionalities have been introduced to improve EPV for Db2 processing performance when managing a large amount of plan and package data:

- > asynchronous aggregators,
- > partitioned tables.

- Usability enhancements

The most relevant usability enhancement is the availability of the

conditional formatting function.

- 45 new views

If you want to install EPV for Db2 V14 please write to:  
[epv.support@epvtech.com](mailto:epv.support@epvtech.com)

## TECH SUPPORT

### Container Pricing for IBM Z - Version 2 Release 3

This information supports z/OS and contains information about Container Pricing for IBM Z.

This information is intended for system programmers who are responsible for capacity planning, and who are responsible for MVS workload management.

There is also information for people writing programs or subsystems that monitor performance.

Download it at:

<http://ibm.co/2GMoZEx>

## RECIPES



## **TAGLIATELLE AL LIMONE, MENTA E PEPERONCINO**

### Ingredients

- 400 g fresh tagliatelle
  - 10-15 mint leaves
    - 1 dried chilli
    - 2 shallots
- 4 spoon of breadcrumbs
  - extra virgin oil
    - salt
    - Lemon peel
- 2 ladles of vegetable stock
  - 1 spoon of flour

### Method

Chop the shallot and let it dry in a pan with 4 tablespoons of oil and chilli. When it has become transparent, add the mint leaves and the hot vegetable stock. Season with salt.

Bring to a boil, then blend in a high-rimmed glass with 1 tablespoon of flour until a smooth cream is obtained. Transfer to a non-stick pan and lightly thicken.

Meanwhile, boil the tagliatelle in boiling salted water for 1 minute, drain and cook with the prepared sauce. Turn off the heat and add

the grated lemon rind, as desired, together with other crushed mint.

Transfer the tagliatelle into serving dishes, sprinkle them with the breadcrumbs briefly toasted in a pan with a little oil and serve.

## QUOTES



*"If you want to know what a man's like, take a good look at how he treats his inferiors, not his equals."*

*J.K. Rowling, Harry Potter and the Goblet of Fire*

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