

COMARCH POWER CLOUD

INFRASTRUCTURE-AS-A-SERVICE PRICING



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1. laaS elements

- 1. **vCPU** (shared) [core] Virtualized POWER9 CPU for shared usage between cloud users. Comes in 0.1 increments, current maximum is 4 vCPUs per customer.
- 2. **CPU** (dedicated) [core] Virtualized POWER9 CPU for dedicated usage of one customer. Comes in integer increments, current maximum is 4 CPUs per customer.
- 3. RAM [GB] Random Access Memory, minimum value is 4 GB.
- 4. **Storage SSD [GB]** Storage using V7000 Gen3 NVMe Technology.
- 5. **IBM i OS [core]** 1 license of IBM i operating system. IBM license cannot be shared and exists only in integer numbers, any fraction of one vCPU needs a whole license.
- 6. AIX [core] 1 license of AIX operating system
- 7. **Licensed Soft [core]** A set of licences of software required to run the environment. Similarly to OS license, cannot be divided among customers.

1.1 laaS pricing in USD

Resource name	Cost [USD/month]
vCPU (shared) [core]	78,25
CPU (dedicated) [core]	484,1
RAM [GB]	6,8
Storage SSD [GB]	0,13
IBM i OS [core]	628
AIX [core]	24,07
Licensed Soft [core]	271,5

1.2 laaS pricing in EURO

Resource name	Cost [EUR/month]
vCPU (shared) [core]	69,25
CPU (dedicated) [core]	428,41
RAM [GB]	6,02
Storage SSD [GB]	0,11
IBM i OS [core]	555,75
AIX [core]	21,30
Licensed Soft [core]	240,27

1.3 laaS pricing in PLN

Resource name	Cost [PLN/month]
vCPU (shared) [core]	290,85
CPU (dedicated) [core]	1799,32
RAM [GB]	25,28
Storage SSD [GB]	0,48
IBM i OS [core]	2334,15
AIX [core]	89,46
Licensed Soft [core]	1009,13

2. Managed Services

The Comarch POWER Cloud offers flexible, reliable managed services for IBM POWER systems, which include installation, administration and maintenance measures for a highly scalable IT infrastructure. Below you will find a description of the services relevant to this offer and the options for service level agreements.

2.1 Description of the services

ID and designation	Description
MONITORING	Basic SLA:
	ASP storage usage monitoring
	Monitoring of native IBM i subsystems
	CPU usage monitoring
	24/7 automated alerting client about events
	• 24/7 access to ticketing system (up to 5 named user accounts s, up to 10
	tickets/month)
	Advanced SLA:
	All tasks from basic SLA are covered in Advanced SLA
	Monitoring of problems occurring on system level
	Monitoring of client specific subsystems and jobs
	 Monitoring QSYSOPR and QSYSMSG Queues for subsystems and OS jobs
	related messages
MNGD-OS (Operating	Basic SLA:
System Support)	System Performance operations (Shared Pool Configuration, Performance
	data configuration, etc.)
	Licensed programs installation/uninstallation
	Printers Configuration (Create/Modify/Delete, Based on output Queue)
	Subsystem Configuration (Create/Modify/Delete)
	Basic Network Settings (TCP Configuration, Host Servers, Services)
	Configuration)
	• 24/7 access to ticketing system (up to 5 named user accounts s, up to 10
	tickets/month)

Advanced SLA: All tasks from basic SLA are covered in Advanced SLA System security (Q Audit Journal Configuration, Digital Certificate Manager, SSL Configuration, Security System Value Settings) Documentation updates and Maintenance Detection and correction of software problems **Advanced System Performance operations** MNGD-MON-TUN **Basic SLA:** (Advanced Performance Monitoring of the platform performance and system tuning **Monitoring & Tuning)** Monitoring und optimisation of user jobs related issues (changing the jobs priorities, adding resources etc.). MNGD-DRC (Disaster-Advanced SLA: **Recovery Services)** DRC service offers replication of the indicated logical partition to a backup location. This replication means a 1 to 1 copy of the indicated logical partition to the DRC location This service requires the booking of additional infrastructure in the backup location (not included in the price) Definition of the expected RPO and RTO for critical business components in emergency situations Determine the capacity of the Disaster Recovery Center (DRC) compared to the primary data center and in terms of processing application data and meeting business requirements Development of the DRC implementation plan Installation of the DRC hardware components Failover tests (depending on the agreement, once a year) Disaster recovery partial test Disaster recovery parallel test Disaster recovery test with complete switchover Checking the disaster recovery process MNGD-BACKUP As part of a due diligence phase at the beginning of the project, the (Management of data backup strategy is selected within the selected backup option in backups) consultation with the customer All customer-specific data is protected by regular backups on tape via the Comarch Backup

	The backup processes are monitored 24/7
MNGD-SEC-ADV-VS (Vulnerability Scanning)	Activities related to Vulnerability Scanning process which outcome is a report showing current vulnerabilities on the system (detected during the scans). Vulnerability scanning is performed on a monthly basis.

2.2 Service Levels

The Service Level Agreements (SLAs) ensure that Comarch defines and implements the agreed project and operating services in the best possible way. The measurement methods for the defined service level objectives must be transparent, mutually agreed and reliable. Unless otherwise specified, the achievement of all service levels is measured monthly. The description of SL categories is necessary to define adequate service levels and target values. Not only the availabilities, but also additional services e.g. the service times defined.

SLA Categories

The following service level categories are offered:

SL Category	Description
BASIC	 This category is recommended for services that do not require 24x7 support and for which downtime has little or no business impact. Maintenance times can be planned in the evening and / or on weekends. Support requests: phone and email. Dedicated project manager for the implementation phase.
ADVANCED	 This category is used for business-critical services in which every downtime has a significant business impact. In addition, appropriate response and solution times based on comprehensive monitoring and a proactive approach to avoiding errors are required. A maximum of 4 planned maintenance windows per year are possible on weekends. Support requests: phone and email. Dedicated project manager for the implementation phase. Dedicated service manager for the entire contract period.

 Prerequisite: Services in this category must be implemented on the basis of highly available hardware and software configurations that provide the necessary redundancies.

Priority levels

The following priority levels are defined:

Priority level	Description	
Level 1 (very high):	Failure of central operating components or network systems (e.g. servers, network connections, Internet), due to which the system (possibly all nodes of the highly available cluster) is not available.	
Level 2 (high):	Failure of central operating components or network systems (e.g. servers, network connections, Internet) where the system is still available but the performance is impaired.	
Level 3 (normal):	All other failures or incidents that do not affect the normal workflow (e.g. failures that only affect hosted test applications or redundancy of the environment is impaired).	

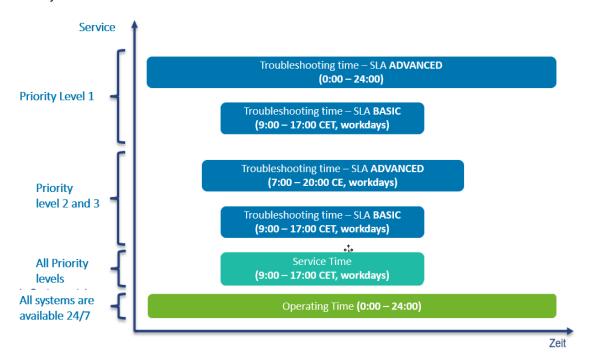
Service Level Objectives

The table below presents the SLA parameters, grouped by 3 categories.

Service Level Parameter	SLA-Categories	
	BASIC	ADVANCED
Operating Time	7x24h	7x24h
System availability per month (priority level 1)	95%	99,4%
Response time + interim report	Prio 1: 60 Minutes	Prio 1: 30 Minutes
	Prio 2: 2 hours	Prio 2: 60 Minutes
	Prio 3: 4 Hours	Prio 3: 2 Hours
Maximum recovery time (RTO)	Prio 1: 12 Hours	Prio 1: 4 Hours
	Prio 2: 18 Hours	Prio 2: 8 Hours
	Prio 3: 24 Hours	Prio 3: 24 Hours
Troubleshooting time (priority level	5*8	7*24
1)	09:00 – 17:00 CET Mo – Fr	0:00 – 24:00 CET

Troubleshooting time (priority levels 2 and 3)	5*8 09:00 – 17:00 CET Mo – Fr	5*13 07:00 – 20:00 CET Mo – Fr
Service time (processing of service and change requests)	5*8 09:00 – 17:00 CET Mo – Fr	5*8 09:00 – 17:00 CET Mo – Fr

The following figure shows the troubleshooting times and the service and operating time depending on the defined priority levels. The troubleshooting time is directly related to the underlying system availability.



Workdays are Monday through Friday with the exception of nationwide public holidays.

2.3 Pricing

Service name		Monthly subscription	
		SLA BASIC	SLA ADVANCED
1.	MONITORING	300,00 EUR	700,00 EUR
2.	MNGD-OS	900,00 EUR	1.600,00 EUR
3.	MONITORING + MNGD-OS	1.000,00 EUR	1.900,00 EUR
4.	MNGD-MON-TUN	300,00 EUR	-
5.	MNGD-DRC	-	300,00 EUR
6.	MNGD-BACKUP	500,00 EUR	900 EUR
		20 EUR / TB one-time	20 EUR / TB one-time

Optional Services

Service name		Monthly subscription
1.	OS Upgrade	
2.	Patch Management (Group PTF Installation min. N1 in delayed mode)	
3.	User Management	
4.	Batch Job Administration & Monitoring	Separate quote
5.	Technical State Compliance and Reporting	Separa
6.	Security Incident Management	
7.	Access Control Matrix	
8.	Risk/Threats Analysis	