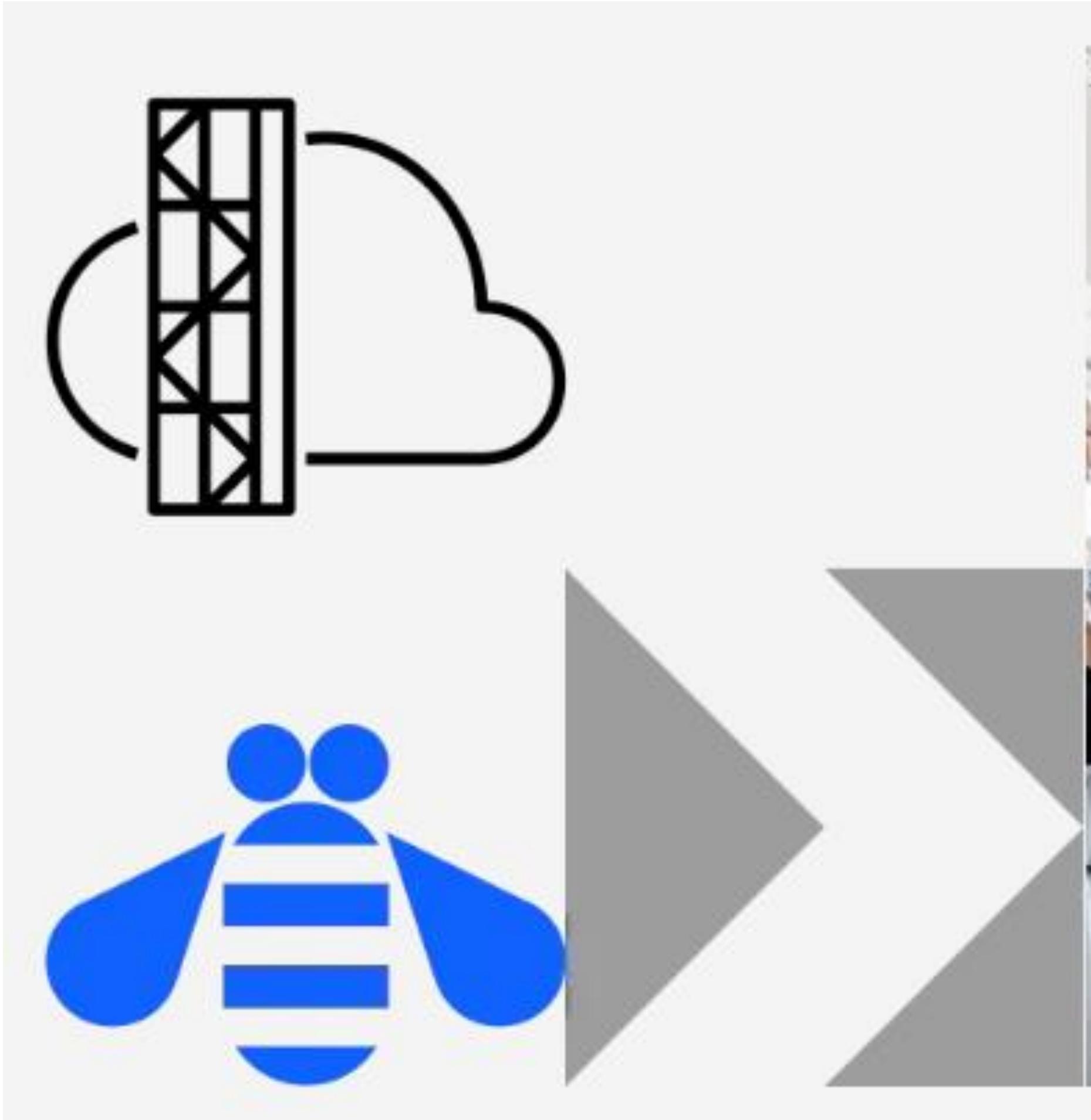


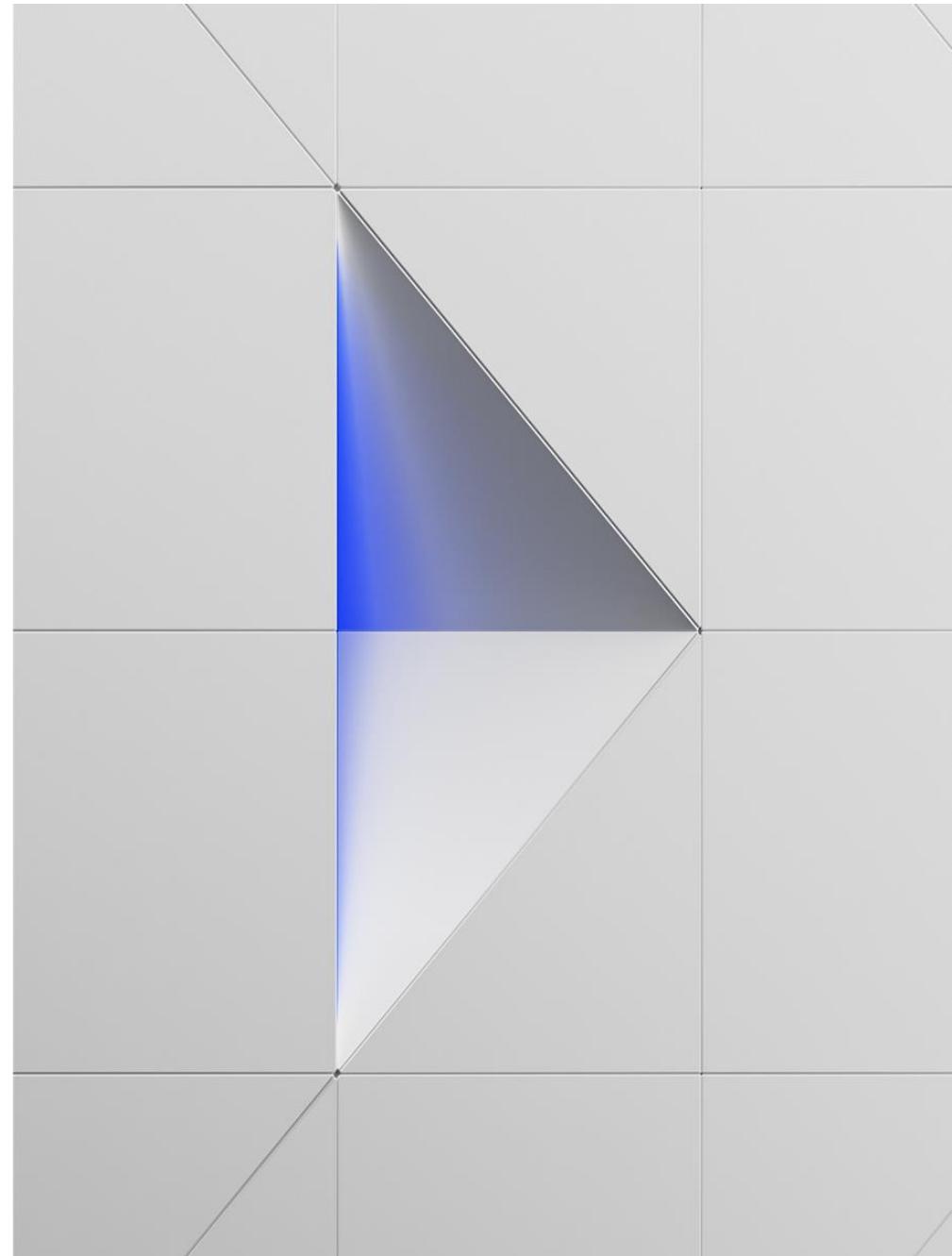
z/VM 7.4 and the IBM z17

Lauren
Maietti

IBM®



Contents



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z/VM Releases and Cadence

z/VM Release Cycle Cadence

For illustrative purposes, not a commitment.

	2022				2023				2024				2025				2026				2027				
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	
7.2	R				R				R																
	N	N	SC	SC	SC	SC	SC	SC	WFM	SC	SC	SC	EOS												
7.3			R GA	N	R	R	N	N	R	N	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	R	SC			
7.4											R GA	SC	R	N	SC	N	SC	R	N	SC	SC	SC	SC	R	SC

z/VM 7.2 EOS – March 31, 2025

1. GA 3rd Quarter of even years
2. In service ~ 4.5 years
3. New Function **every 6 months** until GA of next release, and then service, RSU, processor compatibility
4. Six RSUs for life of a release, One with GA, next 3 are every 6 months

Legend:

GA: Generally Available
 N: New function APAR PTFs available
 SC: Service and processor compatibility
 R: RSU
 WFM: Withdrawn from Marketing
 EOS: End of Service

z/VM Releases

Release ¹	ProdId	GA	EOM	EOS	Notes
z/VM 7.4	5741-A09	Sept 20, 2024	TBD	TBD	First release with linear service strategy
z/VM 7.3	5741-A09	Sept 16, 2022	TBD	TBD	Service only

Release ²	IBM z17 & IBM LinuxONE V	IBM z16 & IBM LinuxONE IV	IBM z15 & IBM LinuxONE III	IBM z14 & IBM LinuxONE II
z/VM 7.4	✓	✓	✓	
z/VM 7.3	✓	✓	✓	✓

Notes:

1. z/VM GA every 2 years with in service for ~4.5 years.
2. Service may be required for support of various servers.

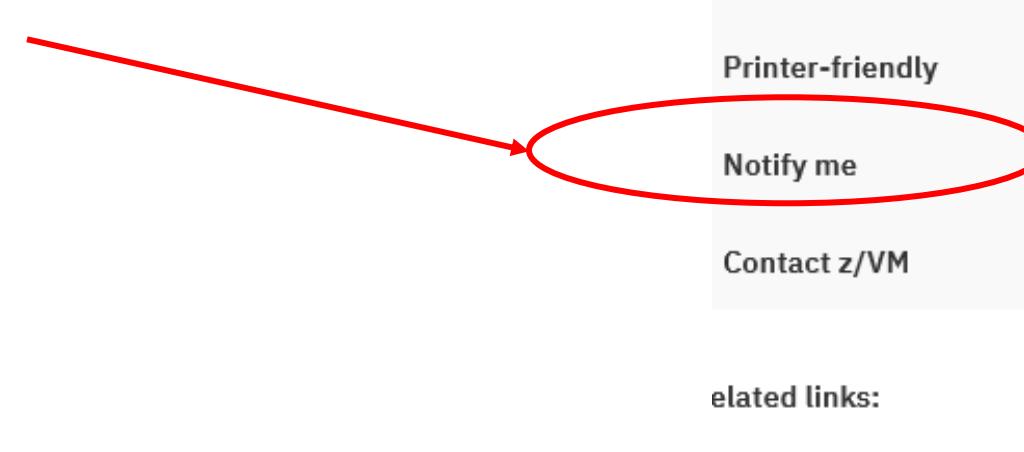
z/VM Continuous Delivery Page

Gives an overview of new function that is under consideration. Allows clients to:

- Express interest in being a sponsor user for an item.
- Plan for new support coming out in the future.
- Understand the value, benefit, and impact of new enhancements.

<https://www.vm.ibm.com/newfunction/>

Subscribe for updates via “Notify me” link on left navigation bar.



The image shows a screenshot of the z/VM Continuous Delivery Page. At the top, there is a navigation bar with links for 'z/VM New Function APARs', 'z/VM 6.4 Function', 'z/VM 7.1 Function', 'Suspended Projects', and 'Continuous Delivery'. Below the navigation bar, there is a 'Change Summary' box containing two items: 'February 12, 2024: VM Pass-Through ESA Support is now available.' and 'January 26, 2024: Added Added Query SCPIID'. The main content area includes an 'Introduction' section with text about continuous delivery for z/VM, and a 'New Function APARs' table. The table has columns for 'New function in progress', 'Target date', and 'Last updated'. It lists several APARs, including 'Active Drain for PAGE Volumes', 'CPU Measurement Facility Host Sampler Exploitation', 'Digital Signature Verification of z/VM Service Packages', 'Query SCPIID', and 'REXX Sockets Enhancements'.

New function in progress	Target date	Last updated
Active Drain for PAGE Volumes	TBD	August 4, 2022
CPU Measurement Facility Host Sampler Exploitation	TBD	September 28, 2022
Digital Signature Verification of z/VM Service Packages	1Q 2024	November 17, 2023
Query SCPIID	1Q 2024	January 26, 2024
REXX Sockets Enhancements	TBD	September 28, 2022

z/VM Change Logs

<https://www.vm.ibm.com/changelog/>

z/VM Change Logs show what service packs and feature packs have been released at a component level.

Details of the fixpack or feature pack content can be found in the Details column by clicking [“+ More information”](#).

Overview	z/VM 7.4 RSUs	z/VM 7.4 CP	z/VM 7.4 CMS	z/VM 7.4 TCPIP	z/VM 7.4 DirMaint	z/VM 7.4 RACF	z/VM 7.4 Other		
Last Updated: 6 May 2025									
Service and feature packs released for the z/VM 7.4 CP component									
z/VM 7.4 introduced linear service to the product. Service fix packs and feature packs are now released on a regular cadence. By installing the latest pack you will receive all service fixes and features for the component. Refer to the change log table below for a comprehensive list of changes to the component since the z/VM 7.4 General Availability date.									
Subscribe to this page to receive email updates when this page has been changed.									
Show <input style="border: 1px solid #ccc; padding: 2px 5px;" type="button" value="10"/> entries									
<input style="width: 100%; border: 1px solid #ccc; padding: 2px;" type="text"/> Filter:									
Release	Level	Available	Type	Crit PE	Security	HIPER	APAR	PTF	Details
7.4	0101	May 2, 2025	Hot fix	Yes	No	Yes	VM66839	UM90524	z/VM 7.4 CP Hot Fix - Feature 01 Fix 01 Update May 6, 2025 - Critical PE introduced with this hot fix. + More information
7.4	0100	April 3, 2025	Feature pack	No	No	No	VM66829	UM90510	z/VM 7.4 CP Feature Pack - Feature 01 Fix 00 + More information
7.4	0008	March 14, 2025	Fix pack	No	No	Yes	VM66831	UM90506	z/VM 7.4 CP Fix Pack - Feature 00 Fix 08 + More information
7.4	0007	February 25, 2025	Fix pack	No	No	Yes	VM66821	UM90503	z/VM 7.4 CP Fix Pack - Feature 00 Fix 07 + More information
7.4	0006	January 31, 2025	Fix pack	No	No	No	VM66819	UM90502	z/VM 7.4 CP Fix Pack - Feature 00 Fix 06 + More information
7.4	0005	December 18, 2024	Hot fix	Fixed	No	Yes	VM66815	UM90496	z/VM 7.4 CP Hot fix - Feature 00 Fix 05 + More information
7.4	0004	October 14, 2024	Fix pack	Yes	No	No	VM66800	UM90483	z/VM 7.4 CP Fix Pack - Feature 00 Fix 04 Update Nov. 25, 2024 - PE introduced with this fix pack. + More information
7.4	0003	September 28, 2024	Fix pack	No	No	Yes	VM66796	UM90478	z/VM 7.4 CP Fix Pack - Feature 00 Fix 03 + More information
7.4	0002	September 20, 2024	Hot fix	No	Yes	No	VM66795	UM90474	z/VM 7.4 CP SECURITY APAR - Feature 00 Fix 02
7.4	0001	September 20, 2024	Fix pack	No	No	Yes	VM66780	UM90463	Initial fix pack that is provided with the z/VM 7.4 GA installation media. + More information

z/VM RSUs

z/VM 7.4 RSUs:

<https://www.vm.ibm.com/changelog/740/rsu.html>

- GA RSU - September 20, 2024 with install media
- Second RSU - April 2, 2025
- Next RSU - 3Q2025

Overview **z/VM 7.4 RSUs** z/VM 7.4 CP z/VM 7.4 CMS z/VM 7.4 TCPIP z/VM 7.4 DirMaint z/VM 7.4 RACF z/VM 7.4 Other

Last Updated: 2 April 2025

Available z/VM 7.4 Recommended Service Upgrades (RSUs)

z/VM 7.4 introduced [linear service](#) to the product. Recommended Service Upgrades (RSUs) are now created before a new z/VM feature pack is introduced to the product. Theoretically, this would be a very stable point on the z/VM linear service timeline when the product has received service fix packs. RSUs bundle pre-existing APAR service fix packs and feature packs in a single pre-built package to help make installation easier. Check the [RSU Plans](#) page for information about future RSU deliveries.

[Subscribe](#) to this page to receive email updates when the content has been changed.

For z/VM 7.4 PTF UM97740 is used to order the latest RSU available.

z/VM RSU7402 - April 2, 2025

Component	Level	Notes
CP	0008	z/VM 7.4 CP FIX PACK - Feature 00 Fix 08
CMS	0003	z/VM 7.4 CMS FIX PACK - Feature 00 Fix 03
VMSES	0001	z/VM 7.4 VMSES FIX PACK - Feature 00 Fix 01
ICKDSF	2301	ICKDSF017
LE	2301	LE is 730

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z/VM RSU7401 - September 20, 2024 - RSU packaged with z/VM 7.4 install media

Component	Level	Notes
CP	0001	z/VM 7.4 CP FIX PACK - Feature 00 Fix 01
ICKDSF	2301	ICKDSF017
LE	2301	LE is 730

z/VM
News
About z/VM
Events calendar
Products and features
Downloads
Technical resources
Library
How to buy
Install
Service

CONTENT OF z/VM 7.3.0 RSU					
7304RSU RSU - April 4, 2024					
Volume	1 of 1	LVL	UPGRADE	SUBSET	
z/VM	7.3.0	2401	ZVM730	2401RSU	
TCPIP	7.3.0	2401	TCPIP730	2401RSU	
PERFTK	7.3.0	2301	VMPTK730	2301RSU	
Dirm	7.3.0	2302	DIRM730	2302RSU	
z/VM HCD	730	2401	ZVMHCD730	2401RSU	
ICKDSF	1.17.0	2301	ICKDSF017	2301RSU	
(Note: No Subset/Upgrade PSP updates exist)					
7303RSU RSU - October 13, 2023					
Volume	1 of 1	LVL	UPGRADE	SUBSET	
z/VM	7.3.0	2302	ZVM730	2302RSU	
TCPIP	7.3.0	2301	TCPIP730	2301RSU	
PERFTK	7.3.0	2301	VMPTK730	2301RSU	
Dirm	7.3.0	2302	DIRM730	2302RSU	
z/VM HCD	730	2302	ZVMHCD730	2302RSU	
ICKDSF	1.17.0	2301	ICKDSF017	2301RSU	

z/VM Version 7 Release 4 Overview

z/VM 7.4 – At a Glance

Preview announce February 6, 2024

- General Availability – September 20, 2024
- <https://www.vm.ibm.com/zvm740/preview.html>
- <https://www.vm.ibm.com/zvm740/>

Architecture Level Set of IBM z15 and IBM LinuxONE III or newer processor families

New service strategy implementing a Linear Service Model

- z/VM Component Change Logs – <https://www.vm.ibm.com/changelog/>

New function delivered in the z/VM 7.3 service stream using the Continuous Delivery model, including:

- z/VM Performance Data Pump
- Reduced guest logoff time
- Support for 2TB guest memory
- Secure guest IPL
- New security compliance interface
- Digital Signature Verification of service
- Ease-of-use enhancements for z/VM system programmers

z/VM 7.4 – Removal of Obsolete Crypto Support

Removal of support for obsolete crypto operands in the user directory

- **CRYPTO** operand on the **CPU** statement
- **CSU**, **KEYENTRY**, **MODIFY**, and **SPECIAL** operands on the **CRYPTO** statement

Above must be removed from the directory prior to:

- Running the z/VM 7.4 DIRECTXA MODULE
- IPLing z/VM 7.4
- Any DirMaint directory updates

CRYPTO and **NOCRYPTO** operands are not allowed with **CPU** operation of Diagnose x'84'

z/VM 7.4 – Packaging Changes

DVD-R is no longer a supported System Image distribution media (satisfies Statement of Direction)

TCPIP user directory entry will IPL 990 (ZCMS)

Removal of option to use the default password during installation

Installation support for **DATAPUMP** user ID

Integration of HCD into CP base

Hash value is added to DVDIMAGE file for each file on each DVD/ZIP

Installation password for **DIRMAINT** userid is changed from AUTOONLY to LOGONBY

Removal of the RLDSAVE option from the \$PPF file used to build the CPLOAD MODULE

z/VM 7.4 – EREP Removal

EREP has announced

- Withdrawal from Marketing **May 6, 2024**
- End of Service **February 28, 2025**

EREP product executables are bundled in z/VM 7.3

- Executables will no longer be available in z/VM 7.4

RECORDING function defaults will likely change in z/VM 7.4

z/VM 7.4 CP Feature Pack 01

Two-Speed Monitoring

- Collect z/VM monitor data at two different sampling rates.
- Allow detailed monitor collection on a virtual machine for brief period if required for analysis
- While other virtual machines collect data less frequently and over longer periods of time for customary purposes
 - Environment Variable: CP.LIMIT.MONITOR.SUBINTERVAL

TRSOURCE IO multiple subchannel set (MSS) support

- Extends TRSOURCE support to 5-digit device addresses
 - Subchannel-set (SS) number concatenated to the left of the device address.
- Applies only to real devices addresses and therefore the operand of the TRSOURCE command RDEV keyword.

Component	APAR	PTF	Available	RSU
CP	VM66829	UM90510	April 3, 2025	TBD

z/VM 7.4 DVF Feature Pack 01

TRACERED multiple subchannel set (MSS) support

(z/VM 7.4 - DVF Feature 01 Fix 00)

- Similarly to TRSOURCE, TRACERED updated to properly format I/O trace data for multiple subchannel-set

Component	APAR	PTF	Available	RSU
DVF	VM66830	UM90515	April 3, 2025	TBD

z/VM 7.4 CMS Feature Pack 01

GetShopz ServiceLink Support

(z/VM 7.4 – CMS Feature 01 Fix 00)

- Provide support in GetShopz for direct to host transfer of service packages from IBM ServiceLink.
- GetShopz currently has the function to securely transfer z/VM service packages directly from Shopz. This new function APAR will provide the same ability for orders from ServiceLink.

Component	APAR	PTF	Available	RSU
CMS	VM66834	UM90516	April 3, 2025	TBD

z/VM 7.4 – New Function Summary

April 2025 z/VM 7.4 Feature Pack 1 new function: (1Q25 feature packs)

- GetShopz ServiceLink Support
- Two-Speed Monitoring
- TRSOURCE/TRACERED IO multiple subchannel set (MSS) support

May 2025 – Next z/VM 7.4 Fix Pack

3Q2025 - Next z/VM 7.4 RSU followed by Feature Pack

Reminders:

- Fix packs ship every 4 weeks
- Feature packs ship every 6 months
- All other service, hardware support, security APARs, hot fixes, are delivered as needed

IBM z17

IBM z17

IBM z17 Announced: April 8, 2025

Announcement:

<https://www.ibm.com/docs/en/announcements/z17-makes-more-possible>

Landing Page:

<https://ibm.biz/BdnXJ6>

Planned General Availability: June 18, 2025

z/VM Compatibility Support planned for z17 GA

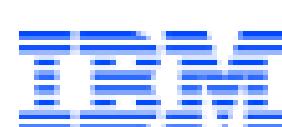
- *z/VM 7.3 and 7.4 APARS*



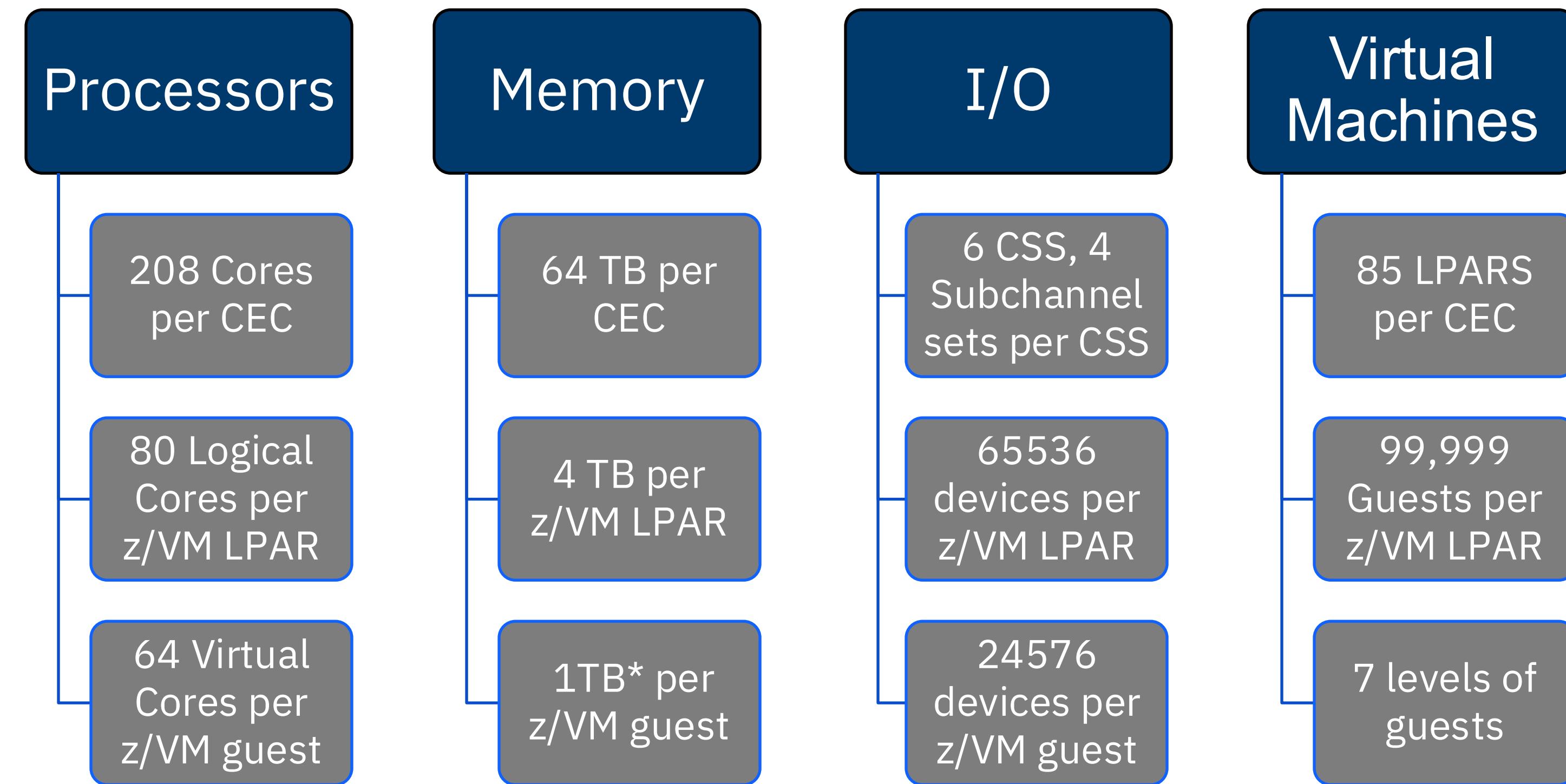
IBM z17 comparison to IBM z16

	IBM z17 differentiation	IBM z17	IBM z16
Processor Chip	20% core processor area reduction 15% power reduction +11% single thread improved performance	5nm technology 5.5 GHz	7nm technology 5.2G Hz
Capacity	+15-20% more capacity	208 cores	200 cores
Cache	+40% cache growth	36MB L2 360MB Virtual L2 2.8GB virtual L4	32MB L2 256MB virtual L3 2GB virtual L4
Total system memory	+60% system memory growth	4U DDR5 DDIMM 64TB max memory	4U DDR4 DDIMM 40TB max memory
On-chip AI acceleration	8X more AI processing, with 7.5X more throughput Support for LLM compute primitives, improved quantization: Int8, FP16 datatypes	Telum II	Telum I
Off-chip PCIe AI Accelerator card	Spyre Accelerator, available only on IBM z17, Q42025 Support of gen AI and LLMs	Spyre Accelerator chip with 32 gen AI-ready cores on extended adapters; 75W PCIe gen5 x16 adapter, up to 48 adapters per system	N/A
System I/O	DPU provides 90% reduced power for IO management Double density with new FICON Express 32G (4-port) Double density with converged network adapter (RoCE and OSA)	On-processor chip IO DPU	Off-chip IO processing
Power, weight, floor space	19% less power 13% less weight Equivalent floor pace		
Scale	50% more AI inferences per day 40% more secure transactions per day	450B AI inferences /day 35B secure transactions /day	300B AI inferences/day 25B secure transactions per day

NOTE: this is not a full summary of improvements, which include specialty engine performance, FICON express, coupling, compilers and more.



z/VM System Limits for IBM z17



*2TB guests are supported with restrictions, for more information: <https://www.vm.ibm.com/memman/gt1guest.html>

z/VM Support for IBM z17 New Processor Support

IBM z17 New Processor Support in z/VM – Guest Exploitation Enablement

- Guest enablement to exploit the following facilities:

- Vector-Enhancements Facility 3 - New instructions intended to provide performance improvements.
- Vector-Packed-Decimal-Enhancement 3 - Intended to provide performance improvements of COBOL programs when compiled using the NUMCHECK option to detect and convert data.
- Workload-Instrumentation - Provides a means of classifying and sampling workloads to enhance the z/OS pricing model.
- Message-Security-Assist Extensions - Enhancements that allow the use of XTS and HMAC algorithms and allow for generation of XTS and HMAC encryption keys while using AES algorithms.
- Perform Lock Operation (PLO) - Provides operations for managing locks in storage to replace capabilities provided previously by the constrained transactional execution (CTX) facility.
- Concurrent-Functions - Provides new instructions intended to replace the use of TX for software serialization.

IBM z17 New Processor Support in z/VM – Host Exploitation

- Host support for the following new facilities:
 - CPU Measurement Facility (CPU-MF) enhancements - Provide CPU-MF-specific support for IBM z17 family server.
 - Data Processing Unit (DPU) Next Generation I/O accelerator instrumentation provided within the z/VM monitor - Collects FCP, FICON, and OSA instrumentation data within the z/VM monitor for the IBM z17 family server DPUs.
 - Power Consumption metrics provided within z/VM monitor - enhancements to the z/VM monitor to include entire CPC and LPAR specific level power consumption information. This information includes power metrics for CPU, I/O, and Memory usage. Consumers of z/VM monitor, such as the z/VM performance datapump, can be enhanced to calculate/approximate guest level apportionment. APAR VM66825 provides support for a Performance Datapump Power Metric Dashboard.

Highlight: IBM Z Transactional Execution (TX) Plans

Transactional Execution Background

An alternative to traditional locking mechanisms

Used by z/VM and z/OS and possibly by VM applications

Linux does not exploit

Two Flavors: Constrained and Non-Constrained

z16 Statement of Direction

Removal of support of the transactional execution and constrained transactional execution facility:

In a future IBM Z hardware system family, the transactional execution and constrained transactional execution facility will no longer be supported. Users of the facility on current servers should always check the facility indications before use.

z17 Support

Reduced support for transactional execution (TX) - Non-constrained transactions will result in unconditionally aborting with condition code 1 (CC1) and no TDB stored.

z/VM Plans for TX

Virtual Machine TX Discovery and Disablement Support

- z/VM 7.3 and 7.4
- Emulate a version of TX removal for Virtual Machines under z/VM
- Use for testing and migrating TX use
- Discover first use of TX instruction in z/VM Monitor Data

Live Guest Relocation Details:

- Guests relocating to members with different *emulation* settings will require FORCE ARCH
- On future machines that may *actually* remove the facility, LGR will not be affected.

z/VM CP exploitation removed and replaced in z17 compatibility support APAR

While finding a TX replacement, consider relocation domains...

- <z16 and z17 in a relocation domain will result in no z17 replacement facilities available
- <z16 and a zNext without TX will have neither TX nor its replacements

z/VM Support for IBM z17

New I/O Support

IBM z17 New I/O Support in z/VM

- Real device support - Allows the following to be attached for guest exploitation:
 - Enhanced QDIO (OSH) devices.
 - CL6 CHPID coupling adapter.
 - Network Express Hybrid (NETH) devices.
- Guest exploitation support for EQDIO devices - Allows guests to directly exploit the OSH functionality of the Network Express Adapter.
- Extension of CP VSWITCH logic for Network Express Adapter EQDIO support within the z/VM VSwitch - Allows customers to configure the VSwitch to take advantage of lower latency and higher bandwidths provided by networking EQDIO devices within their data center. The Vswitch EQDIO exploitation includes QDIO-to-EQDIO translation, allowing guests that do not support EQDIO to directly take advantage of this networking support.

Note - Currently z/OS Guests Cannot Attach to a VSwitch Configured with an EQDIO Uplink Port A z/VM VSwitch supporting Network Express OSH does not currently support z/OS guests exploiting an EQDIO uplink port. In the interim, clients will be required to use either a guest-attached OSH device or existing functionality available with OSA-Express7S adapters.

z/VM Support for IBM z17

What you'll need

z/VM and z17: Pre-Requisite Support for Single System Image (SSI)

z/VM z17 support will be delivered on z/VM 7.3 and 7.4

Pre-requisite Support for SSI Environment

- Required on all members of an SSI that is planning to include IBM z17
- Shipped in linear service stream for z/VM 7.4
- Shipped for z/VM 7.2 and 7.3 service stream
 - Although z/VM 7.2 cannot run on IBM z17, can be in the relocation domain

Component	APAR	PTF	Available	RSU
CP (7.2 pre-req)	VM66832	UM90513	March 31, 2025	None
CP (7.3 pre-req)	VM66832	UM90514	April 1, 2025	TBD
CP (7.4 pre-req CP0101)	VM66839	UM90524	May 2, 2025	TBD

z/VM and z17: HCPVINOP MACRO Implications

There are source code recompile requirements specific to users of the HCPVINOP MACRO and vendor products that use the macro:

For z/VM 7.3, any users of the HCPVINOP MACRO are required to recompile their local updates before using this service if the PTF for APAR VM66823 is installed.

For z/VM 7.4, any users of the HCPVINOP MACRO are required to recompile their local updates before using this service if the PTF for APAR VM66824 is installed, which will be included in z/VM 7.4 CP Feature Pack 02 Fix Pack 00 or higher.

For users of vendor products, please contact the vendor to inquire whether they use the HCPVINOP macro. If so, obtain recompiled source from the vendor.

z/VM 7.4 CMS Feature Pack 02 (Hardware Support)

z/CMS IOCP Support for z17

(z/VM 7.4 – CMS Feature 02 Fix 00 and z/VM 7.3)

- Introduces a new release of ICP IOCP – Version 7 Release 1 Level 0 (7.1.0) of the program
- ICP IOCP supports the IBM z17 9175 model ME1 and the IBM LinuxONE Emperor 5 model ML1

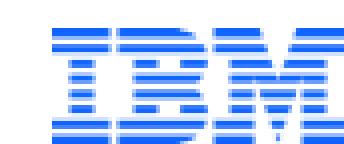
Component	APAR	PTF	Available	RSU
CMS (z/VM 7.3)	VM66741	UM90519	April 8, 2025	TBD
CMS (z/VM 7.4)	VM66827	UM90520	April 8, 2025	TBD

z/VM 7.3 APAR Table

z/VM 7.3 APAR	Available	Description
VM66823	⌚	GA1 processor compatibility, EQDIO, and new IBM z17 device support
VM66825	⌚	Power Metric Performance Datapump Dashboard
VM66822	⌚	Provides support to allow users to develop or enhance system management tools related to EQDIO devices.
PH65377	⌚	Provides a native device driver for the z/VM TCP/IP stack that exploits EQDIO adapters for network traffic.
VM66788	✓	ME1 VMHCD support for z/VM 7.3 (HCD Requires z/CMS and z/XC support)
VM66836	⌚	ME1 VMHCM support
PH62834	⌚	HLASM support
VM66741	✓	IOCP support; requires z/CMS support

z/VM 7.4 APAR Table

Service Level	7.4 APAR	Available	Description
CP 0200	VM66824	⌚	GA1 processor compatibility, EQDIO, and new IBM z17 device support, and ME1 VMHCD and VMHCM support for z/VM 7.4 (HCD Requires z/CMS and z/XC support)
Perfkit 0100	VM66826	⌚	Power Metric Performance Datapump Dashboard
CMS 0200	VM66827	✓	IOCP support; requires z/CMS support
CMS 0300	VM66828	⌚	Provides support to allow users to develop or enhance system management tools related to EQDIO devices.
TCPIP 0100	PH65378	⌚	Provides a native device driver for the z/VM TCP/IP stack that exploits EQDIO adapters for network traffic.
N/A	PH62834	⌚	HLASM support (HLASM does not follow z/VM Linear Service)



Useful z/VM Information and Links

z/VM Council – Client Communication and Collaboration

z/VM-centric community started in June 2018

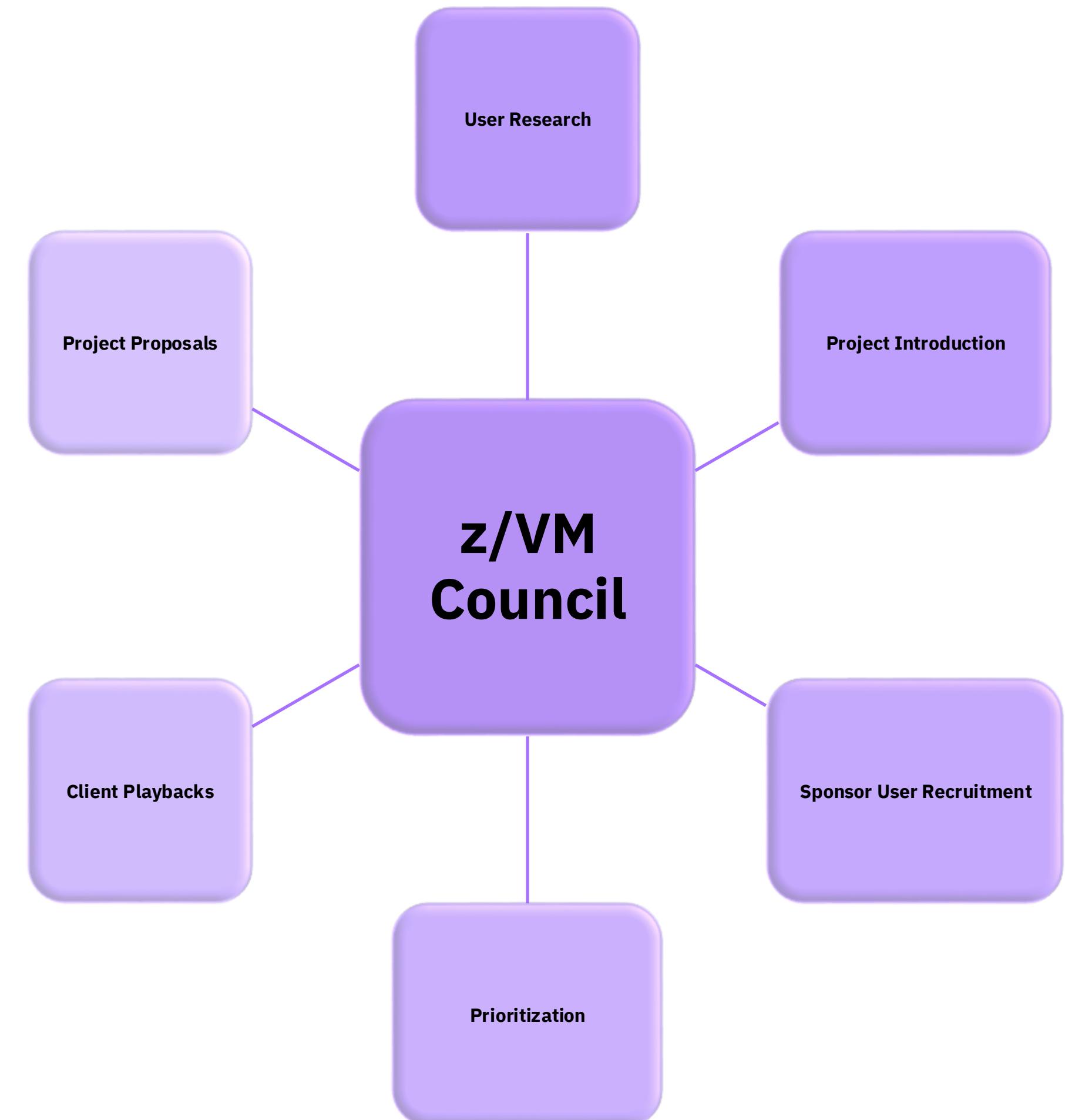
- Meeting about once a month via telephone and web conferencing
- Other collaboration done via membership web site

Membership Requirements

- IBM Z Feedback Program Agreement (FPA)
- Regular participation
- Sponsor User for at least one project per year
- Homework assignments

Additional details:

- more information
http://www.vm.ibm.com/sponsor_user/zvm_council.html
- Link to z/VM community - <https://ibm.biz/zvmCouncil>
- Contact: Kerry Wilson – kerryw@us.ibm.com



z/VM Education Pages

<https://www.vm.ibm.com/education/>

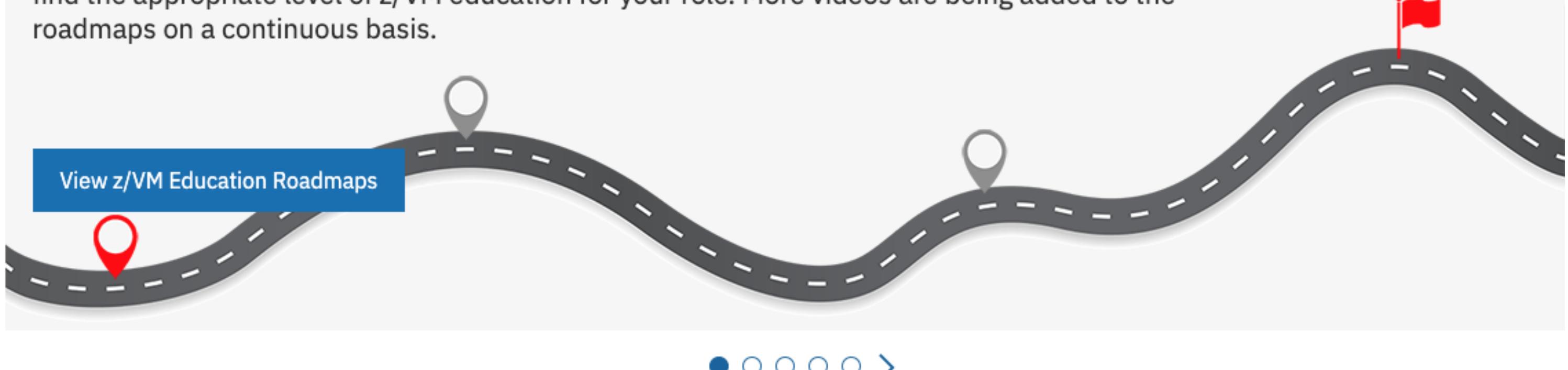
Newly renovated landing page for z/VM education.

View a tailored list of z/VM education videos based on experience levels via the z/VM Education Roadmaps.

Access existing z/VM education resources.

z/VM education roadmaps

New z/VM education videos are now available. These videos have been created by the IBM z/VM Development team along with others within the IBM zSystems organization. Videos range from basic introductory courses to more advanced z/VM topics. Several roadmaps have been created for you to find the appropriate level of z/VM education for your role. More videos are being added to the roadmaps on a continuous basis.



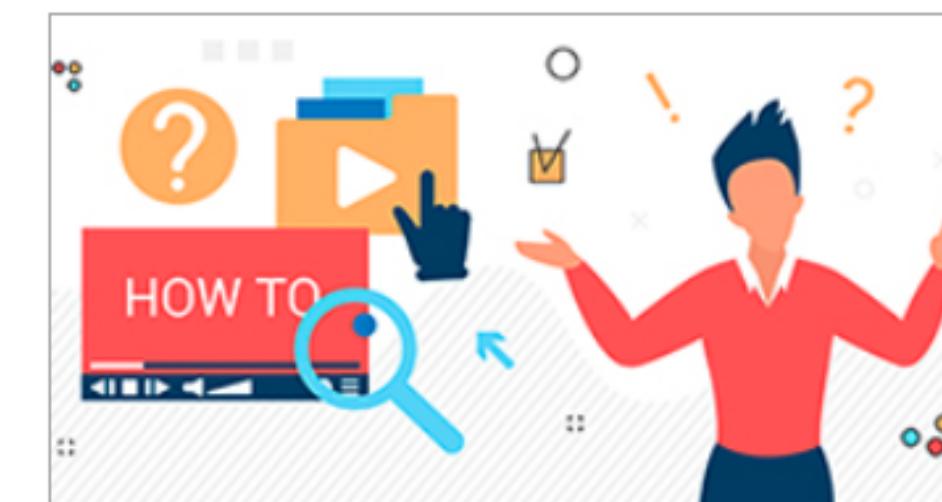
More z/VM education resources



Additional Links to z/VM Education

Links to tutorials and more z/VM education resources

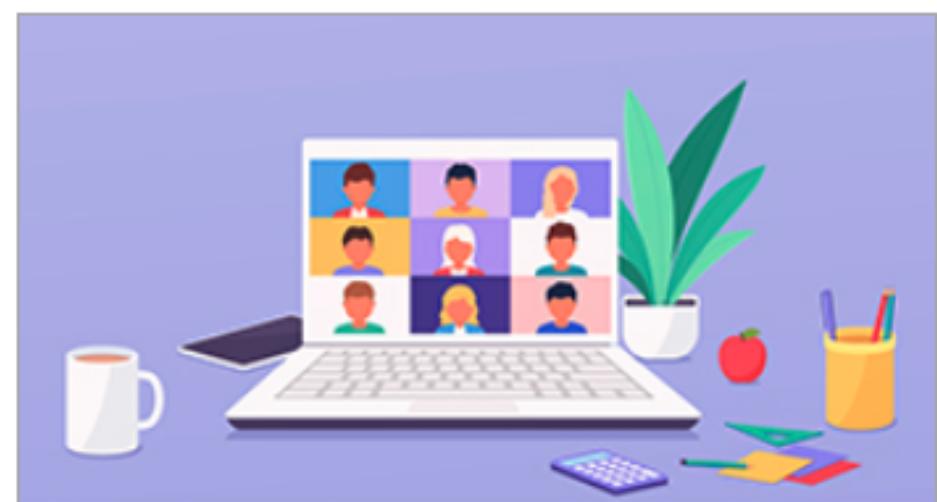
→ [Other education links](#)



z/VM How to Videos

Step-by-step videos that walks a user through a specific task

→ [View all](#)



z/VM Related Live Virtual Classes

Linux on IBM Z and LinuxONE - Technical Webcast Sessions

→ [View classes](#)

z/VM Education Pages

<https://www.vm.ibm.com/education/>

Easily prioritize the education that matches your need and skill level.

New videos added regularly

z/VM education roadmap coverage

Reference the table below to find which videos are contained on the various z/VM education roadmaps.

Video Name	z/VM Basic Education Roadmap	New z/VM System Programmer Roadmap	z/VM Advanced Education Roadmap
100 - What is z/VM?	✓	✓	✗
101 - z/VM Virtualization Basics	✓	✓	✗
102 - CP and CMS Customization	✓	✓	✗
103 - Twelve Pillars of System Management	✓	✓	✗
104 - Introduction to System Administration	✓	✓	✗
105 - Introduction to CMS Pipelines	✓	✓	✗
106 - Introduction to RACF	✓	✓	✗
200 - Rexx Coding Techniques - Part 1	✗	✓	✗
201 - Rexx Coding Techniques - Part 2	✗	✓	✗
202 - Problem Determination	✗	✓	✗
203 - z/VM Virtual Switch (VSwitch): The Basics	✗	✓	✗
204 - z/VM Introduction to the Directory Maintenance (DirMaint)	✗	✓	✗
300 - What's Going Wrong? LPAR Weights	✗	✓	✓
301 - z/VM Virtual Switch (VSwitch): Advanced Topics	✗	✓	✓

z/VM Education – Additional YouTube Playlists

Various videos that provide guides or information on different z/VM related tasks or topics:

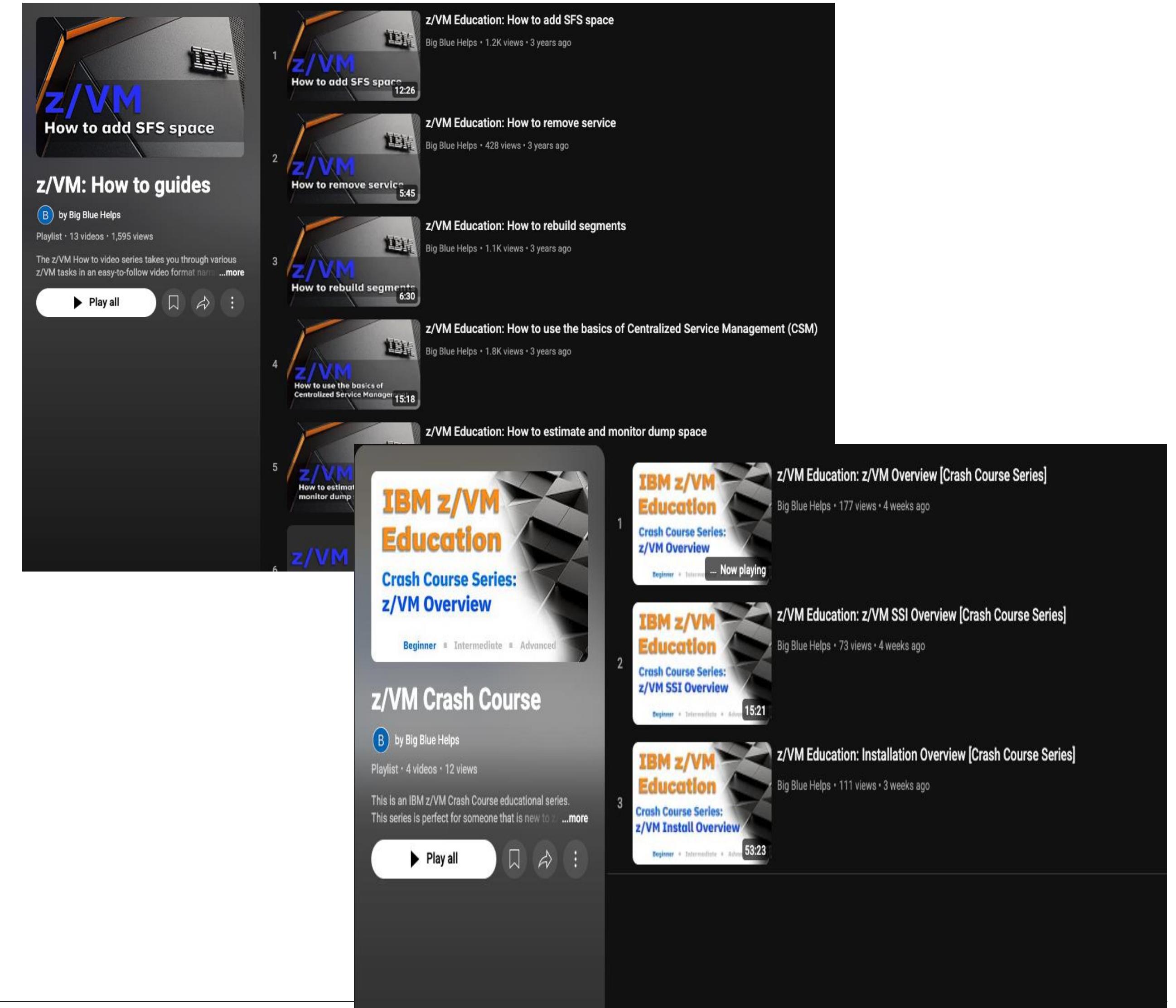
- Short “How To” series
- Longer “Crash Course” series

Part of the Big Blue Helps YouTube channel.

Playlists

- How to: <https://ibm.biz/zvmhowto-yt>
- Crash Course: <https://ibm.biz/zvm-cc-videos>

Please like, subscribe, and comment!



Problem Determination - Must Gather Information

There is a new set of web pages at <https://www.vm.ibm.com/support/>

z/VM Troubleshooting

Overview Preparation **Troubleshooting** Must Gather Sending Data

z/VM Last Updated: 17 February 2021

News

About z/VM

Events calendar

Products and features

Downloads

Technical resources

Library

How to buy

This page provides a summary of materials for you to collect when you have a problem with your z/VM system. For more details, select the problem you are troubleshooting, and follow the instructions. Data that needs to be collected and sent to IBM is highlighted in the table below. If there is "data to collect" for your problem, refer to the "Must Gather - Details" section for details on how to collect the data.

Filter:

#	Category	Problem Description	Actions / Data to Collect
13.	Performance	z/VM system performance problems	<p>z/VM Support may request the data below. Note: This data should be collected from time periods in which the system was performing well, as well as from time periods in which the system was running poorly:</p> <ul style="list-style-type: none">• Collect and send MONWRITE data to IBM• Collect and send CP OPERATOR's console to IBM

New to z/VM?

Welcome new people to the z/VM Community

Some resources beyond this presentation:

- The z/VM 7.4 Library Page <https://www.vm.ibm.com/library/740pdfs.html>
- The z/VM Presentations Page <https://www.vm.ibm.com/library/presentations/index.html>
- The z/VM Ideas Portal <https://ibm.biz/zvmIdeas>
- The IBMVM Mailing List, see https://www.vm.ibm.com/techinfo/listserv.html#Section_0.1 for details on subscribing.
- The z/VM related events calendar <https://www.vm.ibm.com/events/>
- z/VM Education Overview and Roadmaps <https://www.vm.ibm.com/education/>
- z/VM Playlist on YouTube <https://ibm.biz/zvmhowto-yt>
- MVMUA (Metropolitan VM Users Association) <http://www.mvmua.org/>
- The VM Workshop
 - Webpage - <http://www.vmworkshop.org/>
 - YouTube Channel - <https://ibm.biz/vmworkshopyoutube>



Summary

(Current Release) z/VM 7.4 GA September 20, 2024

- Includes all Continuous Delivery enhancements shipped as service in z/VM 7.3
- New Linear Service Model

(Service-only Release) z/VM 7.3

z/VM 7.2 went End of Service March 31, 2025

New function for z/VM 7.4 will be delivered with the linear service model

- Heavy dependence on the sponsor user program
- Plans for new function are published on the z/VM website
 - <https://www.vm.ibm.com/newfunction/>

z17 GA June 18, 2025

- More information on z/VM required support: <https://www.vm.ibm.com/service/vmreqz17.html>

Subscribe to or follow the websites referenced throughout this presentation for the latest news on new function, required service, and more

Thank you

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It is the user's responsibility to evaluate and verify the operation of any other products or programs with IBM products and programs.

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