IBM z/VM Express System Install Conceptual Overview

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Z/VM ESI

Express System Install

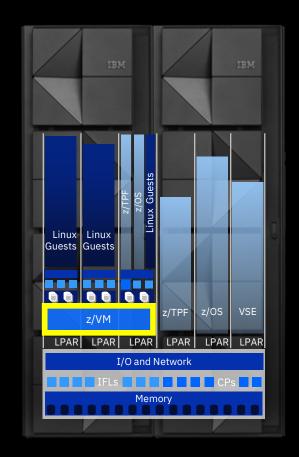
The world's finest pocket-sized mainframe hybrid cloud



What is IBM z/VM?



- IBM's premier, enterprise-class, flagship virtualization hipervisor
- Capable of supporting more virtual servers than any other platform
- Known situations where Linux performance under z/VM exceeds native LPAR



Arguably the most capable and functionally rich hipervisor



- Legendary stability and qualities of service
- The only supported hypervisor for Oracle databases on z/Architecture
- The first choice of the Red Hat OpenShift development team for s390x



Arguably the most capable and functionally rich hipervisor



What is z/VM ESI?



E. pluribus Unum



Standardize z/VM software bundle based on IBM expertise and good practices



RACF/VM

z/VM LDAP



Performance Toolkit



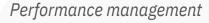
DirMaint



Operations manager

Identity, access, and security management

OpenShift and Linux security management





Monitoring, automation, and log management





Red Hat Installation Support System



Ansible playbooks to create supporting infrastructure



Ansible playbooks to install OpenShift Container Platform





Simplified deployment and setup of Red Hat OpenShift Container Platform or IBM Cloud Infrastructure Centre

Red Hat
OpenShift

Hybrid cloud platform

Rapid deployment and time to value

z/VM ESI value-added packaging

Enterprise grade virtualization

IBM z/VM

Legendary hardware

IBM Z or LinuxONE hardware



The z/VM ESI stack

Similar to how MVS/ESA plus common features were bundled to create OS/390.



Obtained from ShoopZ

Not a special build

Optional features

RACF/VM

Identity, access, and security management

z/VM LDAP

OpenShift and Linux security management

Performance Toolkit

Performance management

DirMaint

User & disk configuration management

· Operations manager

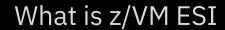
Monitoring, automation, and log management

Expert configuration

- Very fast processor speeds with large cache structures
- I/O acceleration coprocessors

Value-add utilities

Shared hardware can translate into dramatic reduction in per-core software licensing costs







What brought this project to be?



Customers want systems ready on day one.





66 Outsourcing nas changed everything for us





I rely on IBM to provide expertise



Technical staff are already overcommitted.



66 Idon't have time to sift through choices





66 Fast and easy are what my executives want to buy



 Information technology is moving so fast that customers struggle to simply remain knowledgeable of the I/T landscape.

• Customers want product manufacturers to provide solutions which are developed and pre-configured using the expertise of the manufacturer.

 Both management and technical staff have an expectation that any modern product will arrive "fully assembled". The expectation is even higher for a premium product like IBM Z.



- Technical staff are not afraid to learn new technologies and solutions, but do not want to be "thrown into the deep end of the pool on day one".
- We see this principle perfectly illustrated in the way that Linux distributions have evolved.
- From a high-level perspective, deployment of a Linux system in the past was very similar to the deployment of a z/VM system
 - Documentation guides the user through a lengthy series of steps, some of them covering topics which can easily be overwhelming.
 - Security is an add-on. The system is not hardened.
 - Tools and utilities to make use easier are not included in the base.



The z/VM ESI team



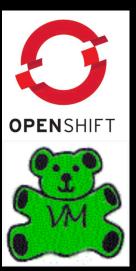
We are a skunkworks project

<u>Skunkworks project</u>, a project typically developed by a small and loosely structured group of people who research and develop a project primarily for the sake of innovation



z/VM Express System Install
(z/VM ESI)

"z/VM on-a-stick"



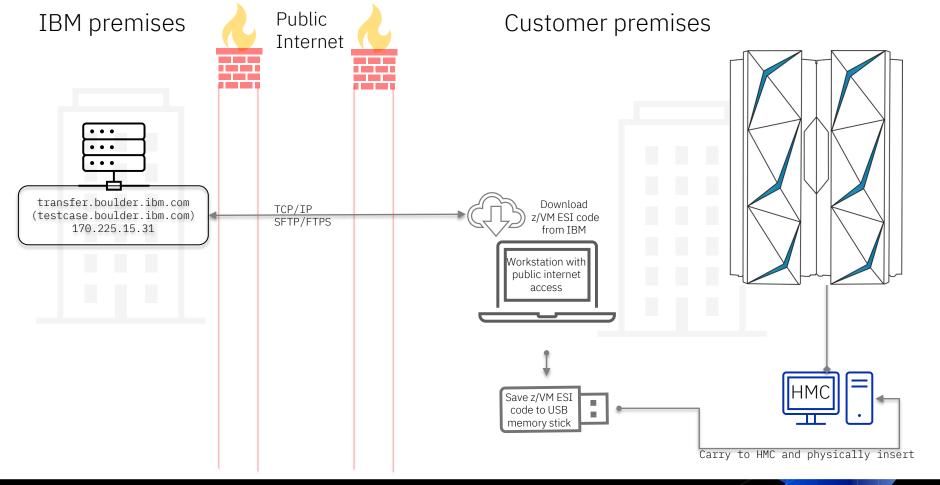


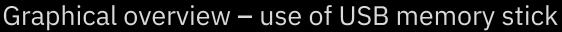
- Bring z/VM to the forefront of both customers and IBMers minds alike.
- Make deployment of a new z/VM system so quick and easy, that IBM Z or LinuxONE stand out as the obvious choice against competing solutions.
- To dispel and eradicate incorrect notions about z/VM:
 - Too complex to setup
 - Too many choices/options
 - Necessary components require manual setup and cost extra (ESM, PTK, etc)
 - Hard to learn
 - Too expensive versus perceived value
 - Time to operational readiness



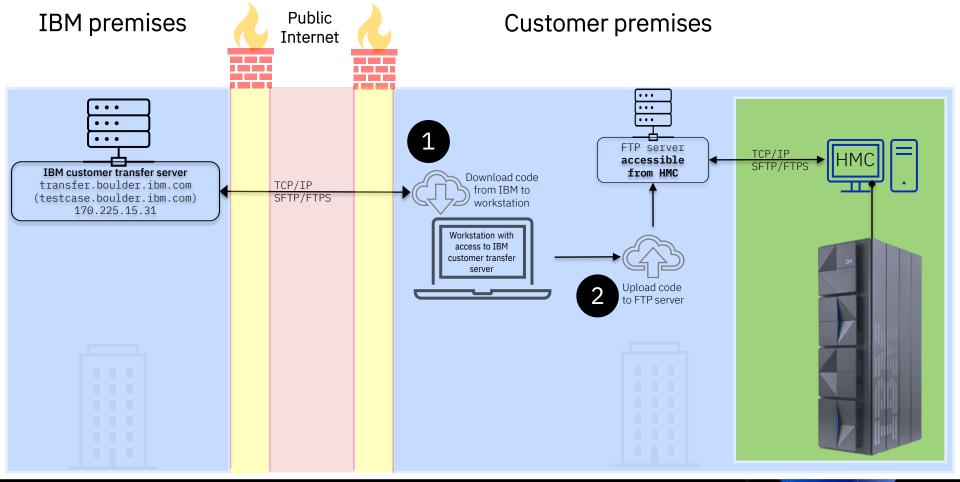
Methodologies















Ask your IBM sales representative to contact us

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