#### IBM Spectrum Fusion Technical Update - 2H22 OpenShift Enterprise Data Services







# **IBM Spectrum Fusion**

A data services platform for Red Hat OpenShift, everywhere



Access any data, anywhere with a secure global data fabric that is simple to use | consistent everywhere | strategic

### **IBM Spectrum Fusion** Unlocks the Full Potential of Red Hat OpenShift



- Application portability
- Security, resiliency, and backup
- Integration with existing storage
- **Enterprise hardened**
- **Unified File | Block | Object**
- Data discovery and sharing

# **IBM Spectrum Fusion**

Container data services that are simple to use, consistent everywhere, and strategic

- Protect application data Configure application backup policies; recover applications to any point in time
- Ensure application availability Configure cross-zone data replication; manage availability with policies to RPO / RTO objectives
- Access any data, anywhere Manage access to data with policies; connect applications to any data source, anywhere



## **IBM Spectrum Fusion with two deployment options** OpenShift appliance or standalone software



#### **IBM Spectrum Fusion HCI IBM Spectrum Fusion OpenShift Appliance + Spectrum** Stand-alone software Fusion data services platform 1Q2022 V.next 14.8 **Red Hat** OpenShift Microsoft **vm**ware<sup>®</sup> Red Hat Google Cloud OpenShift aws IBM Cloud X86 Bare Metal

Bare-metal Red Hat OpenShift cluster-in a box



#### Spectrum Fusion – OpenShift Container Native Data Services



# **IBM Spectrum Fusion HCI**

A better way to run mission-critical applications on bare-metal OpenShift









Container-native data services platform for Red Hat OpenShift & IBM Cloud Paks

Tested and validated across ALL Cloud Pak Services\*



#### **CORE CAPABILITIES**



**Directly provision** storage volumes through the Spectrum Fusion CSI interface



Backup and restore application state to object stores for data resiliency



Application resiliency via **sync. and async. replication** across zones and regions



**Global Data Platform** – any application, any data source, any protocol, anywhere



Simple, efficient, centralized management of all OpenShift data services

"Spectrum Fusion plus Cloud Paks is *the* fastest way to simplify your storage." — *Mike Gilfix, CPO, Cloud Paks* 



# **Protect application data**

Enable I&O teams to efficiently deliver data services to protect application data

Backup applications.

Recover to any point in time.



# **Ensure application availability**

Enable I&O teams to implement easy to use HA / DR services

#### Metro DR, Multi-Availability Zone

- Synchronous data replication
- Distance restriction regions must be connected by a high-bandwidth, low latency link
- "Tie-breaker" application manages fail-over



### Enable access to any data, anywhere from edge to core to cloud Enable I&O teams to increase application agility while protecting existing investments



- Virtualize data access Integrate multi-vendor and multi-cloud file and object data stores into a single file system
- Access without data copies Efficiently and securely share data across edge, core, and cloud by applying policies to the Spectrum Fusion virtualized data access layer
- Cache remote data for performance In a two-way consistent performance tier to avoid stale data, and improve data governance and security