

# VSP One SDS

## *Use Case — Application Development and Testing*

**Why choose Hitachi Vantara Virtual Storage Platform One (VSP One) SDS (software-defined storage) for application development and testing? Here are 10 great reasons:**

- 1. On-Demand Provisioning and Flexible Scaling**  
VSP One SDS enables instant (via API) resource provisioning and flexible scaling, allowing development teams to quickly adapt to changing requirements and accelerate their innovation cycle.
- 2. Seamless Data Replication to Cloud**  
VSP One SDS enables efficient and secure data replication from on-prem to cloud environments, ensuring developers have access to up-to-date data without impacting production workloads.
- 3. Isolated Development Environment**  
By using cloud instances, application developers can work and test in an isolated environment, removing risk to on-prem production data and systems.
- 4. Flexible Cloud Resource Scaling**  
Cloud-based VSP One SDS instances can be dynamically scaled to meet changing development and testing needs, supporting both traditional and modern applications with rapid growth patterns while optimizing resource utilization and costs. This flexibility includes thin provisioning, allocating storage on demand as data is written, and enhancing resource optimization and cost-efficiency.
- 5. Unified Data Management Across Environments**  
The VSP One platform is supported by unified data management tools (Hitachi Ops Center) and a common control plane for on-prem and cloud environments, simplifying workflows for developers and administrators.
- 6. Cost-Effective Testing at Scale**  
Working with cloud resources for application development and testing can be more cost-effective than maintaining dedicated on-prem hardware, especially for large-scale or variable testing needs.
- 7. Integration With Cloud Services**  
VSP One SDS in the cloud can easily integrate with other cloud-native services (Amazon RDS Multi AZ, Red Hat Ansible and HashiCorp Terraform) and tools, expanding the capabilities available to developers during the application development process.
- 8. Streamlined Path to Production**  
Developing and testing in a cloud environment that mirrors the production setup can lead to smooth transitions when deploying applications to production, whether on-prem or in the cloud.
- 9. Simplified Disaster Recovery Testing With Enhanced Data Protection**  
Developers can use cloud instances to perform disaster recovery tests without impacting production systems by leveraging asynchronous replication. These tests can benefit from robust data protection with Data At Rest Encryption (DARE) and Hitachi Polyphase Erasure Coding (HPEC).
- 10. Enhanced Collaboration**  
Cloud-based application deployment means easier collaboration among distributed development teams.