Micro Focus Data Protector is an enterprise grade backup and disaster recovery solution for large, complex, and heterogeneous IT environments. Built on a scalable architecture that combines security and analytics, it enables customers to meet their continuity needs reliably and cost-effectively.

**Product Highlights**
An enterprise class, data centric backup and disaster recovery solution, Data Protector addresses the challenges of complexity, scalability and data security of today’s dynamic and diverse IT environments. Based on a unified, flexible multi-tier architecture, Data Protector enables centralized data protection across physical, virtual and cloud environments.

Data Protector is offered in two editions: Data Protector Premium which supports hybrid environments (virtual and physical), and Data Protector Express designed for backup and restore of virtual environments. Integrated reporting includes reports on configurations, storage pools and media, compliance, sessions in timeframe, backup settings, and many other advanced reports, allowing administrators to effectively monitor their backup environment.

As storage and application usage has evolved so too must its protection. Data Protector for Cloud Workloads is a Data Protector extension that provides wider backup protection in cloud, virtual, container, and on line application environments. It gives multiple options in the choice of hypervisors that can be deployed and enables maximum flexibility in the choice of cloud provider backup targets. Online application data protection is provided for Microsoft 365 suite of products including Exchange Online, SharePoint Online, OneDrive for Business and Teams.

Data Protector also offers automation and orchestration capabilities which enable the creation of workflows which can be implemented via content packs to automate a variety of backup and recovery processes.

**Key Benefits**
- **Standardized protection**—a unified and scalable architecture enables centralized data protection across physical and virtualized environments, disparate operating systems, and critical applications from core data centers to remote sites.
- **Application consistent recovery**—leading business application integrations extend server backup, automated point-in-time recovery, and granular restores to application owners, enabling them to service their own backup and recovery requirements based on the backup infrastructure defined by IT.
  - Backup extensions for business applications including Microsoft Exchange, Microsoft SharePoint, Microsoft SQL, Oracle, SAP, SAP HANA, IBM Db2, Sybase ASE, PostgreSQL, and MySQL provide application-aware backup and recovery.
  - Automated transaction log backup and truncation enables application recovery down to a specific point in time.

**Key Features**
- Standardized protection
- Application-consistent recovery
- Advanced virtual server protection
- Storage integrations
- Cloud as storage tier
- Automated DR
- Information retention
- REST API access
- Security model
- Predictive analytics, automation and orchestration
- Extensive hypervisor backup
- Container protection
- Microsoft 365 Online backup and restore
- Flexible cloud storage provider targets
Data Sheet
Data Protector

- The Granular Recovery Extension (GRE) feature enhances the application management GUI with an administrator option to search and recover individual items.

**Advanced virtual server protection**—hypervisor integrations and support offer virtual machine protection inheritance and instant recovery options for virtual environments.
- Native integrations with VMware and Microsoft Hyper-V hypervisors deliver agentless backup and protection policy inheritance.
- Hardware-assisted agentless backup augments the standard hypervisor backup capabilities by leveraging storage snapshot integration to complete the backup operation. By offloading the processing and movement of backup data from the hypervisor layer, Data Protector improves backup performance and virtual machine availability.
- Advanced VMware restore options for HPE StoreOnce and Dell EMC Data Domain include:
  - Cached Granular Recovery, which allows the recovery of select files from a VM backup image directly from a supported backup target
  - Virtual Machine Power On allows VMs to be powered on instantly from Data Protector’s backup images that reside on supported devices
  - Live Migrate powers on a VM from a backup image residing on a supported device, and simultaneously starts the VM restoration to the specified destination.
- Backup and restore of VMs configured on KVM hypervisor.
- For more extensive hypervisor backup support beyond VMware and Hyper-V, read the information in the Data Protector for Cloud Workloads section.

**Storage integrations with 3rd party storage arrays**—array-based snapshot integrations provide zero-impact protection and rapid recovery; compression and federated deduplication deliver cost efficiencies and better utilization of the IT infrastructure.
- Zero Downtime Backup integration with HPE storage and NetApp SnapMirror enables Data Protector to create, backup, and catalog space-efficient, application-aware snapshots. The Instant Recovery feature meets the strictest levels of service and recovery expectations by staging the desired number of snapshots on the storage array itself. With a storage array being the first point of recovery, applications can be restored instantly.
- Integration with HPE StoreOnce Catalyst and Dell EMC Data Domain Boost enables federated deduplication which can run either on the application server, on the media server, or on the target backup appliance, reducing network bandwidth consumption. Once the data is deduplicated, it is seamlessly moved across the backup stack without rehydration.
- Since both HPE StoreOnce systems and Data Protector utilize the same deduplication API, data can be shared between deduplication stores created on StoreOnce appliances and those created on generic backup appliances, enabling remote sites to keep a local copy of the backup while also sending a copy to the central and/or disaster recovery sites. A local copy of the deduplicated backup data enables a faster restore of files.
- Certified with HPE Nimble Storage, HPE SimpliVity and HPE Alletra.
- Integration with HPE Recovery Manager Central extends the benefits of centralized management and reporting to the environments in which HPE 3PAR array customers use RMC for backing up array snapshot to HPE StoreOnce systems.
- Integrations with other 3rd party storage vendors such as Dell EMC, NetApp and Hitachi for NDMP-based backup and recovery and/or snapshot. Support for 3-way NDMP for NetApp, Dell EMC Isilon and Unity platforms.
- Nutanix AHV support for backup and restore of VMs
- HPE Cloud Volumes support for extending Disk Systems storage capacity or offloading data into the cloud. Utilizes Backup Stores acting like StoreOnce Catalyst devices.

**Microsoft 365 Exchange Online** backup and restore of Mailboxes using standardized and fully embedded Data Protector workflow.
- Backup all mailboxes or select mailboxes.
- Shared backup devices and infrastructure using same Media format.
- Restore to a temp folder for easy self restore by copy and paste
- For full Microsoft 365 application support, see the section on Data Protector for Cloud Workloads.

**Cloud integrations**—Data Protector offers a choice of cloud solutions, both native with Microsoft Azure and Amazon S3 and S3 API-compliant Ceph and Scality, and via a gateway. Cloud integrations have been greatly extended and more details are available in the Data Protector for Cloud Workloads section.
- Native integrations with the Microsoft Azure and Amazon S3 storage cloud allows you to seamlessly use it as a backup target.
- Integration via the Microsoft StorSimple cloud gateway appliance delivers enhanced performance and data optimization for larger cloud backups.
- Data Protector integration with HPE StoreOnce Cloud Bank enables seamless data transfer between on-premise backup data sets and cloud targets such as Amazon S3 and Microsoft Azure without the need for a separate appliance such as a gateway. There is no need for data rehydration, and since all metadata is transferred to the cloud target, restores are possible even after the loss of the HPE StoreOnce device.
- HPE Cloud Volumes support for extending Disk Systems storage capacity or offloading data into the cloud. Utilizes Backup Stores acting like StoreOnce Catalyst devices.
- Microsoft 365 Exchange Online backup and restore of Mailboxes using standardized and fully embedded Data Protector workflow.
- Backup all mailboxes or select mailboxes.
- Shared backup devices and infrastructure using same Media format.
- Restore to a temp folder for easy self restore by copy and paste

- Automated disaster recovery (bare-metal recovery)—centralized bare-metal recovery from or to physical and virtual systems from any backup set at no additional cost.
- Enhanced Automated Disaster Recovery (EADR) provides backup of application data as well as system data including operating system files, drivers, and files required for the initial boot process. Enabled with a simple check box in the Data Protector GUI, EADR includes the necessary image information in full backups for a full system recovery.
- Disaster recovery images can be created from any existing file system or image backup including object copies, without needing to create a separate special backup for system recovery.

- Information retention—automated retention and replication management across different backup media, storage tiers, and locations for compliance and efficient long-term data retention.
- Data Protector creates a tiered recovery architecture by managing data protection (backup, recovery, and replication) on primary storage devices, disk-based backup appliances (both physical and virtual), tape, and cloud.
- Automatic Replication Synchronization automatically shares metadata information between Data Protector Cell Managers that are managing two replicating backup devices (HPE StoreOnce or Dell EMC Data Domain appliances) providing multiple options for restoring data and applications.

- REST API access—an authentication and authorization layer enables seamless integration of data protection tasks with customers’ service portals or applications.
- Self service restore of File Systems, SQL Server, SAP, Oracle, VMware Hyper-V, IDB Files, Disk image and NDMP backups.

- Security model—a secure and simplified communication between the Data Protector components creates a highly reliable and secure backup environment with low overhead.
- Protocols encrypt traffic over the wire.
- “Secure peering” sends all communication between Installation Server and Data Protector Cell Manager including commands via a secure Transport Layer Security 1.2 channel.
- “Trust” verification for Cell Manager/Installation Server relationships.
- Centralized Command Execution.
- Common Criteria Certified providing assurance of the application of rigorous processes, implementation and evaluation of software security.

- Predictive analytics, automation and orchestration, and reporting—tools for backup administrators to efficiently manage the backup environment by gaining insight into key performance indicators, conducting advanced monitoring and reporting, and automating and orchestrating backup processes.
- Dashboard reports provide valuable insights into performance indicators of backup and recovery, allowing IT administrators to filter, change, and modify views.
- Data Protector Express and Data Protector Premium include integrated reports which allow administrators to view client backup statistics, licensing, sessions, schedules information, etc., in order to effectively monitor the backup environment.
- Reporting Server available for traditional licenses
- Business Value Dashboard (BVD) provides point in time backup data accessible anywhere from any device for influencers to monitor backup processes.
- Operations Orchestration (OO) enables creation of workflows which can be implemented via content packs to automate a variety of backup and recovery processes.
- Rapid root-cause analysis identifies issues before they escalate into outages and data loss that hurt business operations.
- Built-in predictive analytics engine provides trends and scenario-based modeling, potential scheduling conflicts and resource contentions, and the impact of new workloads on backup infrastructure (physical capacity, network load, and device load)—enabling better management and planning of backup resources.
Data Protector for Cloud Workloads

Modern workloads demand a new level of data protection to address their specific needs. Micro Focus Data Protector for Cloud Workloads (DP4CW) provides a stable, agentless backup and snapshot-management solution for virtual machines, containers, storage providers, and applications working on-premise and in the cloud. DP4CW supports multiple backup destinations for convenient data storage planning including local filesystem or an NFS/CIFS share, or object storage (cloud providers), extending the already extensive backup capabilities of Data Protector.

- Hypervisor integrations—a wide range of hypervisors are supported to extend protection for virtual machines beyond Hyper-V and VMware.
  - Full and incremental backup protection for KVM, Oracle VM, AWS EC2, Nutanix, and Citrix Hypervisor.
  - File level restore with AWS EC2 and Citrix XEN, and including mountable backups for KVM, and Oracle VM.
  - Depending on hypervisor, capabilities also include application consistent snapshots, option to exclude specific volumes, changed block tracking (CBT), LVM thin-pool support.

- OpenStack and OpenShift—this scripted solution enables VM Workloads in AWS EC2 to be snapshotted first then replicated into AWS S3 storage. This offers the advantage that backup data is separated from live data and it is then possible to make use of Data Protector scheduling, reporting, and monitoring for your hybrid-IT approach.
  - OpenShift backup of metadata and data in persistent volumes
  - Automatic pause of running deployments for consistent backup.
  - Option to exclude specific persistent volumes.
  - OpenStack backup of instance metadata and data in QCOW2 volumes.

- Containers—Backup support is provided for Kubernetes, Proxmox and OpenShift.
- Microsoft 365—Online applications offer many advantages but they only provide minimal data backup support. Data Protector for Cloud Workloads’ backup capabilities are extensive, offering many usable features on a scalable architecture.
  - Full and incremental backup
  - Option to exclude specific volumes and restore individual files.
  - Disk attachment backup strategy using Cinder.

Data Protector is available in two editions with the following features:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Data Protector Express (Virtual)</th>
<th>Data Protector Premium (Hybrid)</th>
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<tbody>
<tr>
<td><strong>Enterprise Scale and Security</strong></td>
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<tr>
<td>Standardized protection across enterprise</td>
<td>X (virtual only)</td>
<td>X</td>
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<tr>
<td>Secure backup and restore</td>
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<tr>
<td><strong>Application-Consistent Recovery</strong></td>
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<tr>
<td>Mission-critical applications and databases support (agent-based)</td>
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<tr>
<td>Granular recovery</td>
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<tr>
<td><strong>Backup and Recovery for Virtual Environments</strong></td>
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<tr>
<td>Agentless VM consistent backup</td>
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<tr>
<td>Advanced restore operations</td>
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<tr>
<td><strong>Best-in-class Platform and Cloud Integrations</strong></td>
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<td>Comprehensive support matrix</td>
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<tr>
<td>Integrations with storage</td>
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<tr>
<td>Cloud integrations</td>
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<tr>
<td><strong>Disaster Recovery</strong></td>
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<tr>
<td>Bare metal recovery for Windows and Linux</td>
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<tr>
<td>Bare metal recovery for UNIX</td>
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<tr>
<td><strong>Orchestration, Automation and Monitoring</strong></td>
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<tr>
<td>Basic integrated reporting</td>
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<tr>
<td>Advanced monitoring and reporting</td>
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<td>Business dashboards</td>
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<tr>
<td>Flexible orchestration and automation</td>
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**Technical Specifications**

The Data Protector Cell Manager software can be installed on Windows, Linux, and HP-UX systems. Data Protector for Cloud Workloads can be installed on Linux and CentOS systems. For additional specifications, go to QuickSpecs on [www.microfocus.com/dataprotector](http://www.microfocus.com/dataprotector).

**Licenses:**

Data Protector and Data Protector for Cloud Workloads each require a separate license.

Licenses are available as capacity based per TB, on front-end capacity. Subscription licenses are also available. Data Protector Express is a socket based license.

**Languages Supported:**

English, French, Japanese, and Simplified Chinese

Learn more at [microfocus.com/dataprotector](http://microfocus.com/dataprotector)