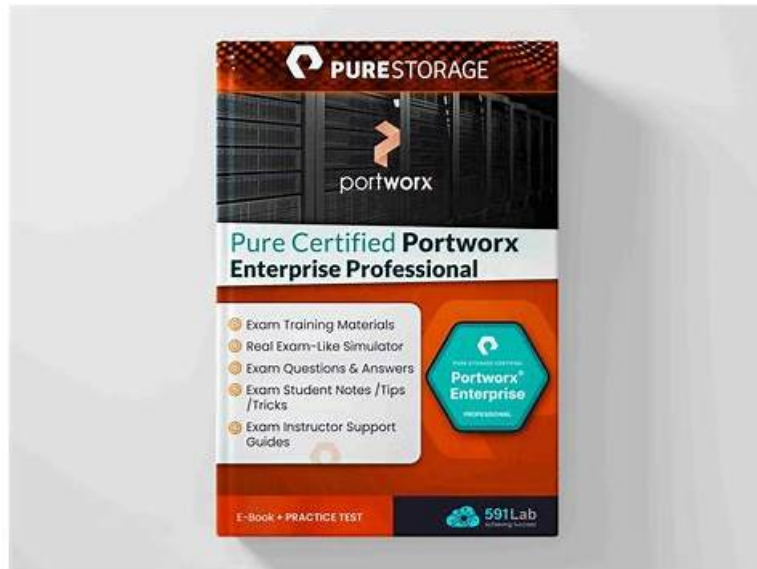


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## Pure Storage Portworx-Enterprise-Professional Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>Security: This section focuses on Security Engineers and Compliance Officers responsible for enforcing security measures in container storage environments. Topics include managing encryption, access control, and compliance policies to protect stored data.</li></ul> |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 2 | <ul style="list-style-type: none"> <li>• <b>Business Continuity:</b> This domain measures the skills of Disaster Recovery Planners and IT Continuity Managers in implementing backup, recovery, and failover strategies. It ensures candidates understand how to sustain business operations and data availability using Portworx features.</li> </ul>                                                              |
| Topic 3 | <ul style="list-style-type: none"> <li>• <b>Operations and Administration:</b> This section of the exam measures the skills of Storage Administrators and Kubernetes Operators and covers managing cluster operations and administering container storage environments using Portworx. Candidates demonstrate the ability to efficiently manage and operate storage clusters in production environments.</li> </ul> |
| Topic 4 | <ul style="list-style-type: none"> <li>• <b>Observability and Troubleshooting:</b> This section assesses the expertise of Support Engineers and System Administrators in monitoring storage deployments and troubleshooting issues. Candidates learn to use observability tools and techniques to maintain system health and resolve performance problems effectively.</li> </ul>                                   |
| Topic 5 | <ul style="list-style-type: none"> <li>• <b>Deploy and Install:</b> This domain targets DevOps Engineers and Infrastructure Specialists and focuses on deploying and installing Portworx storage solutions. It includes configuring and setting up storage clusters to support containerized applications reliably and securely.</li> </ul>                                                                         |

## Pure Storage Pure Certified Portworx Enterprise Professional (PEP) Exam Sample Questions (Q14-Q19):

### NEW QUESTION # 14

What is a benefit of using Autopilot in Portworx environments?

- A. It automates the expansion of storage volumes based on predefined rules.
- B. It facilitates the migration of containers across clusters.
- C. Provides enhanced security features for data protection.

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Autopilot is a key feature in Portworx designed to automate operational tasks such as capacity management and volume resizing. One of its primary benefits is automating the expansion of storage volumes based on predefined rules and thresholds. This means that when a volume approaches its storage limit, Autopilot can automatically trigger volume expansion without manual intervention, ensuring applications have uninterrupted access to storage resources. This automation reduces operational overhead, eliminates manual errors, and helps maintain application performance and availability. While Autopilot doesn't directly handle container migration or security enhancements, its dynamic volume management capabilities play a critical role in operational efficiency and business continuity. The Portworx documentation highlights Autopilot as a tool for intelligent, policy-driven storage management that adapts to workload demands in real time **【Pure Storage Portworx Autopilot Guide source】**.

### NEW QUESTION # 15

What command should be used to add a new drive to an existing storage cluster?

- A. `pxctl service drive add -drive /dev/dm-1 -operation start`
- B. `pxctl sv nw -a`
- C. `pxctl service pool update -resize new-disk 150`

**Answer: A**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Adding a new drive to an existing Portworx storage cluster involves bringing the physical device online for Portworx management. The correct command for this is `pxctl service drive add -drive /dev/dm-1 -operation start`. This command instructs Portworx to recognize and incorporate the new drive specified by the device path (e.g., `/dev/dm-1`) into its storage pool. After this operation, Portworx can use the drive for provisioning volumes or expanding capacity. The `-operation start` flag signals Portworx to initialize and prepare the drive for use. This method is part of Portworx's dynamic storage management capabilities, allowing flexible scaling of storage resources without downtime. Official CLI documentation outlines this command as the supported approach to adding

drives to running clusters safely and efficiently 【Pure Storage Portworx CLI Guide source】 .

#### NEW QUESTION # 16

When utilizing volume encryption, what is a supported external key manager?

- A. Microsoft Key Management Services
- **B. Hashicorp Vault**
- C. Static keys stored in an S3 bucket

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Hashicorp Vault is a widely supported external Key Management System (KMS) integrated with Portworx for volume encryption. It offers robust capabilities including secure key generation, storage, rotation, and access control, making it well-suited for managing encryption keys in enterprise environments. Integrating Portworx with Hashicorp Vault enables automated and secure key retrieval during volume provisioning and use, ensuring compliance with security policies and regulations. Unlike static keys stored in S3 buckets, which lack dynamic security controls, Hashicorp Vault provides granular policy enforcement and audit logging. Microsoft Key Management Services (KMS) is not currently supported as an external KMS for Portworx encryption. Portworx security documentation emphasizes Hashicorp Vault's importance in maintaining secure key lifecycle management for encrypted volumes, highlighting it as the preferred KMS solution in multi-cloud and hybrid environments 【Pure Storage Portworx Security Guide source】 .

#### NEW QUESTION # 17

What are the main resource types for Portworx alerts?

- A. Cluster, Volumes, Namespace, Object Store
- **B. Nodes, Disks, Pods, Namespace, Volume**
- C. Disk, Cluster, Nodes, Pools

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Portworx alerts are generated for several resource types within the storage cluster environment, primarily including Nodes, Disks, Pods, Namespaces, and Volumes. These alerts provide real-time notifications of events such as node failures, disk health degradation, volume status changes, pod crashes, or namespace-level issues affecting storage consumption or performance. Monitoring these resource types helps administrators proactively manage cluster health, maintain high availability, and troubleshoot faults before they impact applications. The Portworx alerting framework aggregates data from these resources and integrates with external monitoring systems for centralized alert management. Official Portworx observability and alerting documentation list these resource categories as the core focus of Portworx alerting mechanisms, critical for operational awareness and automation 【Pure Storage Portworx Observability Guide source】 .

#### NEW QUESTION # 18

Which command shows a summary of the Portworx cluster status?

- A. kubectrl get pxstatus
- **B. pxctl cluster status**
- C. helm list --px

**Answer: B**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The command `pxctl cluster status` provides a concise summary of the Portworx cluster's health and operational status. This includes node states, storage pool information, volume statuses, and quorum information. It is the primary CLI command for administrators to quickly assess cluster health and detect any issues affecting storage availability or performance. `helm list --px` is a Helm package management command unrelated to cluster status, and `kubectrl get pxstatus` is not a valid Kubernetes or Portworx command.

