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Pure Storage Portworx-Enterprise-Professional Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Observability and Troubleshooting: 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.
Topic 2	<ul style="list-style-type: none">Business Continuity: 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.
Topic 3	<ul style="list-style-type: none">Operations and Administration: 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.
Topic 4	<ul style="list-style-type: none">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.
Topic 5	<ul style="list-style-type: none">Deploy and Install: 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.

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Pure Storage Pure Certified Portworx Enterprise Professional (PEP) Exam Sample Questions (Q16-Q21):

NEW QUESTION # 16

What command should the administrator run if Portworx logs report "Node is not in quorum"?

- A. The administrator should run `pxctl service status`.
- **B. The administrator should check output of `pxctl status` on each storage node.**
- C. The administrator should do nothing.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

If Portworx logs indicate that a node is not in quorum, the administrator's first step is to verify the status of each storage node in the cluster using the command `pxctl status`. This command provides detailed information about node connectivity, quorum status, and cluster health. The quorum is critical for distributed consensus and cluster consistency. Checking each node's status helps identify network partitions, node failures, or communication issues causing quorum loss. Simply running `pxctl service status` provides service-level info but not the comprehensive node quorum details needed. The Portworx troubleshooting documentation stresses using `pxctl status` as the primary diagnostic tool when encountering quorum-related alerts to ensure cluster stability and resolve issues promptly **【Pure Storage Portworx Troubleshooting Guide source】**.

NEW QUESTION # 17

How should a Portworx administrator enable the Alertmanager?

- A. Create a config map with the Alertmanager configuration and enable Alertmanager via the `pxctl CLI`.
- **B. Create a secret with the Alertmanager configuration and enable Alertmanager in the StorageCluster object.**
- C. Deploy Alertmanager by following the official Alertmanager documentation and integrate it with Portworx by enabling monitoring webhook in the StorageCluster object.

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Enabling Alertmanager in Portworx involves creating a Kubernetes Secret containing the Alertmanager configuration (such as alert routing rules and notification channels) and referencing this secret in the Portworx StorageCluster manifest. This integration allows Portworx's monitoring stack to forward alerts to Alertmanager for centralized alert processing and notifications. Unlike ConfigMaps, which are generally used for non-sensitive data, Secrets protect sensitive alert configuration. Enabling Alertmanager via `pxctl CLI` is not supported as Portworx relies on Kubernetes declarative configuration for monitoring components. Additionally, deploying Alertmanager independently and integrating through webhooks requires manual setup but is not the recommended or integrated approach. Portworx official observability documentation details the secret-based configuration as the standard and secure method to enable and manage Alertmanager within Portworx clusters for robust alert handling **【Pure Storage Portworx Monitoring Guide source】**.

NEW QUESTION # 18

Which command shows a summary of the Portworx cluster status?

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

Answer: C

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 `kubectl get pxstatus` is not a valid Kubernetes or Portworx command. Portworx documentation recommends `pxctl cluster status` as an essential monitoring command during routine operations and troubleshooting to ensure the cluster is functioning properly and that all nodes are communicating and healthy **【Pure Storage Portworx CLI Guide source】**

NEW QUESTION # 19

Which storage type does Portworx primarily rely on for storage provisioning?

- A. Object Storage
- B. Network File System (NFS)
- C. **Direct Attached Storage (DAS)**

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Portworx primarily relies on Direct Attached Storage (DAS) for its storage provisioning. DAS refers to physical disks or SSDs directly connected to the nodes running Portworx. Using DAS enables high-performance, low-latency access to storage resources, crucial for stateful containerized applications. Portworx aggregates and abstracts these local devices into distributed storage pools, providing features like replication, encryption, and snapshots. While Portworx integrates with Object Storage for cloud snapshots and disaster recovery, and can support NFS for certain use cases, the core storage provisioning and volume management depend on DAS. The Portworx architecture documentation clarifies that leveraging local node storage is essential for delivering performant, resilient, and scalable persistent storage in Kubernetes environments **【Pure Storage Portworx Architecture Guide source】**.

NEW QUESTION # 20

What is the primary command used to back up a volume in Portworx?

- A. **pxctl volume snapshot create**
- B. pxctl volume save
- C. pxctl backup volume

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The primary command to back up a volume in Portworx is `pxctl volume snapshot create`. This command creates a point-in-time snapshot of the specified volume, capturing its state for backup or recovery purposes. Snapshots can be local or uploaded to cloud object stores as part of disaster recovery strategies. The snapshot operation is efficient and minimally intrusive, using -on-write mechanisms to avoid full data duplication. Although other commands like `pxctl volume save` or `pxctl backup volume` might exist in other storage systems, Portworx explicitly uses `pxctl volume snapshot create` as its core volume backup command. The Portworx CLI documentation details this command as fundamental for data protection and snapshot lifecycle management in the cluster **【Pure Storage Portworx CLI Guide source】**.

NEW QUESTION # 21

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