AWS Backup allows you to create backups, facilitates centralization and automation of their creation in the AWS cloud, as well as on-premise. Eliminating the need to create your own scripts and manual configuration.

**Scenarios of backup plans**

- **Cloud-native backup** provides a centralized console for automating and managing backups as part of AWS services.
- **Hybrid backup** provides a common way to backup application data in the cloud as well as in the local environment.
- **On-premise backup** provides a common way to back up application data both in the cloud and in the local environment. In the case of AWS Backup, it complements the AWS Storage Gateway service.

**Service integrated with:**

- Amazon RDS
- AWS Storage Gateway
- Amazon EFS
- Amazon EBS
- Amazon Dynamo DB

**How do you configure AWS Backup?**

1. **Create the selected Backup Plan**
   - Choose options from the options available in the AWS services:
     - Create an existing plan based on AWS policies
     - Build your own plan
     - Build a plan based on JSON

2. **Services integrated with:**
   - Amazon RDS
   - AWS Storage Gateway
   - Amazon EFS
   - Amazon EBS
   - Amazon Dynamo DB

3. **Assign resources**
   - The task is assigning appropriate resources subject to the given Backup Plan. You can create one or more backup rules and specify tags which process attaches the resource to the backup policy.

4. **Start the backup**
   - After configuration, you can launch AWS Backup. After verifying the copy, it's a good idea to remove any AWS resources that you do not need to keep in order not to incur unnecessary fees.

**Additional functionalities**

- **Backups on demand**
  - You can back up selected resources on demand. Select the desired resource and its storage location, and then create a backup.

- **Recovery Points**
  - You can find the list of recovery points in Backup Vaults, where you can check and restore previously created tables in a Backup Plan.

**Security**

The service provides access control and encryption features that help protect data and meet compliance requirements. By using AWS Identity and Access Management (IAM), you can manage backup authorizations, such as:

- Control
- Restoring backups
- Management of backup plans
- Assigning resources to backup plans.

**What do you gain?**

**Centralized backup management**

- A solution based on the ability to create backups that comply with business requirements and legal regulations.
- Possibility to tag resources to implement backup strategies in all applications, ensuring that all resources are identified and protected.
- Automation of backup planning.
- Automated retention management - backup storage for as long as required.
- Security by encrypting backup data.
- Access control and backup lifecycle monitoring.

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