**GitLab Pipeline Analysis**

**Defined Pipeline Stages:**

* **test:** This stage focuses on running tests.
* **EnsureBlobBackup:** This stage focuses on ensuring blob backups.

**Purpose and Sequence of Jobs:**

1. **test (stage: test):**
   * This job runs only when a push or merge request event is triggered (rules).
   * It utilizes the buhlergroup.azurecr.io/build-agent-linux:latest Docker image.
   * Script execution sequence:
     + Prints message "Running Pester tests from push event..." (informational).
     + Prints message "Running on environment dev" (informational).
     + Executes pwsh (PowerShell) to run the script ./source/Backup/Backup\_Blob/Run-EnsureScript.ps1 with arguments:
       - -Environment dev: Sets the environment variable Environment to "dev".
       - -ExcludedTags 'DeletedState': Sets the environment variable ExcludedTags to "DeletedState" (likely excludes objects with that tag during backup).
   * The job creates an artifact named artifacts (likely containing test results) and stores it permanently (when: always).
2. **EnsureBlobBackup (stage: EnsureBlobBackup):**
   * This stage conditionally runs based on the pipeline trigger source (rules).
   * It utilizes a reusable template named .EnsureBackup\_template for script execution.
   * The template defines a script that runs pwsh to execute ./source/Backup/Backup\_Blob/Run-EnsureScript.ps1 with arguments:
     + -Environment $Environment: Uses the environment variable Environment (set in child jobs).
     + -ExcludedTags $ExcludedTags: Uses the environment variable ExcludedTags (set in child jobs).
   * Two child jobs inherit from the template:
     + **EnsureBlobBackup\_dev:** This job runs when triggered by a schedule (rules) and sets the Environment to "dev".
     + **EnsureBlobBackup\_prod:** This job runs always (when: always) but only if the Environment is set to "prod" (rules).

**Key Commands or Scripts Executed:**

* pwsh -Command "./source/Backup/Backup\_Blob/Run-EnsureScript.ps1 -Environment <env> -ExcludedTags <tags>": This PowerShell script seems to be responsible for ensuring blob backups. It likely takes environment and excluded tags as arguments.

**Additional Notes:**

* The pipeline utilizes environment variables (Environment, ExcludedTags) to customize backup behavior for different environments (dev, prod).
* The pipeline leverages reusable templates for cleaner code and potentially shared backup logic across jobs.