### **Prep Quiz - dbt Cloud Architect (Part 1)**

#### **Topic 1: Configuring Data Warehouse Connections**

1. **When configuring a new data warehouse connection in dbt Cloud, what is the first step to perform after entering the credentials?**

A. Configure the IP Whitelist.

B. Link the project to a Git repository.

C. Test the connection to ensure dbt Cloud can communicate with the warehouse.

D. Add a Client ID for OAuth.  
**Correct Answer: C**

1. **What is the purpose of the Client ID and Client Secret when setting up OAuth authentication for a warehouse connection?**

A. They allow dbt Cloud to authenticate with your Git provider.

B. They authenticate the dbt Cloud application itself with the warehouse's identity provider, allowing users to authenticate via OAuth.

C. They are used to encrypt data in transit between dbt Cloud and the warehouse.

D. They are used as credentials for a service account.  
**Correct Answer: B**

1. **Why is configuring the IP Whitelist a crucial security step for many organizations?**

A. To ensure that only authorized developers can modify dbt code.

B. To ensure that only traffic from dbt Cloud's servers can reach the data warehouse, thus blocking all other unauthorized external access.

C. To limit the number of threads a dbt job can use.

D. To enable Single Sign-On (SSO).  
**Correct Answer: B**

#### **Topic 2: Configuring Git Connections**

1. **What is the recommended method for integrating a GitHub repository with dbt Cloud?**

A. Using a personal SSH key.

B. Using a Personal Access Token.

C. Installing the dbt Cloud GitHub App.

D. Cloning the repository manually in the IDE.  
**Correct Answer: C**

1. **What happens if the connection to the Git repository is broken?**

A. Scheduled jobs will continue to run with the last fetched version of the code.

B. Developers will no longer be able to open the IDE, commit code, or run jobs based on the latest changes.

C. The connection to the data warehouse will be automatically disabled.

D. Users will lose their access to dbt Cloud.  
**Correct Answer: B**

1. **When connecting a repository from an external Git provider (e.g., GitLab, Bitbucket), what information is generally required in addition to the repository URL?**

A. A webhook for notifications.

B. The name of the default branch only.

C. A Deploy Key or an access token to authorize read access to the repository.

D. The email address of the repository administrator.  
**Correct Answer: C**

#### **Topic 3: Creating and Maintaining Environments**

1. **In which scenario is it preferable to use a Service Account for a deployment environment?**

A. When developers need to run jobs in their personal development environment.

B. For production or CI/CD jobs, so that runs are not tied to an individual user's credentials.

C. To grant temporary access to external consultants.

D. For authenticating to the dbt Cloud interface.  
**Correct Answer: B**

1. **How does dbt handle environment variables if the same variable is defined in multiple places (e.g., in the environment and in the job definition)?**

A. The environment's variable always takes precedence.

B. The variable defined in the job configuration (Job override) takes precedence over the one in the environment.

C. dbt prompts the user to choose which one to use for each run.

D. The first variable found is used.  
**Correct Answer: B**

1. **What is the purpose of configuring a "custom branch" in a deployment environment?**

A. To allow developers to choose any branch to run a job.

B. To permanently link an environment (e.g., Production) to a specific and stable Git branch (e.g., main or prod).

C. To automatically create new branches for each new job.

D. To test dbt Cloud features.  
**Correct Answer: B**

#### **Topic 4: Creating and Maintaining Job Definitions**

1. **What is "job chaining" in dbt Cloud?**

A. The ability to run multiple dbt commands in a single job.

B. Configuring a job to trigger automatically after another job succeeds.

C. Using the dbt chain command in the IDE.

D. A method for linking models between different projects.  
**Correct Answer: B**

1. **In what order should the dbt seed, dbt run, and dbt test commands be implemented in a standard deployment job?**

A. dbt run, dbt test, dbt seed

B. dbt test, dbt run, dbt seed

C. dbt seed, dbt run, dbt test

D. The order does not matter.  
**Correct Answer: C**

1. **What is the benefit of specifying a dbt version override in a job's settings?**

A. To ensure all developers use the same dbt version locally.

B. To guarantee a job's stability and reproducibility by locking it to a specific version of dbt Core, even if the environment is upgraded.

C. To access beta features of dbt Core.

D. It is a mandatory requirement for all production jobs.  
**Correct Answer: B**

#### **Topic 5: Configuring Security and Licenses**

1. **Which dbt Cloud Enterprise feature allows for defining granular permissions based on user groups and permission sets?**

A. Service Tokens.

B. Role-Based Access Control (RBAC).

C. License Mappings.

D. Single Sign-On (SSO).  
**Correct Answer: B**

1. **What is the purpose of configuring License Mappings in a dbt Cloud Enterprise account?**

A. To purchase new dbt Cloud licenses.

B. To automatically assign licenses (Developer or Read-Only) to users logging in via SSO based on their identity provider group memberships.

C. To define permissions for service tokens.

D. To link a license to a specific project.  
**Correct Answer: B**

1. **A Service Token was created with a "Job Admin" permission set. What can an application using this token do?**

A. Only view the status of jobs.

B. Trigger existing jobs but not modify them.

C. Create, modify, and trigger jobs in the authorized projects.

D. Manage users and licenses for the account.  
**Correct Answer: C**

#### **Topic 6: Setting up Monitoring and Alerting**

1. **For an integration with an alerting tool like PagerDuty or to send custom notifications to Slack, what is the most flexible and recommended method?**

A. Configuring email notifications to a PagerDuty or Slack address.

B. Using Webhooks to send a detailed JSON payload to a specific endpoint.

C. Manually checking the Run History.

D. Writing a custom script that polls the dbt Cloud API every minute.  
**Correct Answer: B**

1. **By default, when does dbt Cloud send an email notification for a job?**

A. Only when the job succeeds.

B. Every time the job finishes, regardless of its status.

C. Only when the job fails or is cancelled.

D. Only for jobs that contain data tests.  
**Correct Answer: C**

1. **Which piece of information is NOT included in a job's webhook payload?**

A. The Job ID and the Run ID.

B. The final status of the run (e.g., "Success", "Error").

C. The detailed logs from each step of the dbt command.

D. A link to the run page in dbt Cloud.  
**Correct Answer: C** (The full logs are typically not in the initial payload due to size, but can be retrieved via the API).

#### **Topic 7: Setting up a dbt Mesh and Cross-Project References**

1. **How can a dbt project (Project A) reference a public model from another project (Project B) within the same dbt Cloud organization?**

A. By importing Project B as a package in Project A's packages.yml file.

B. By using the source() function to point to the table of Project B's model.

C. By configuring a project dependency in Project A's dbt\_project.yml, and then using the ref() function as usual.

D. By copying the SQL code of Project B's model into Project A.  
**Correct Answer: C**

1. **How can an architect control which models from a project can be referenced by other projects in a dbt Mesh?**

A. By using environment variables to hide certain models.

B. By setting a model's access modifier to public. Models that are private (the default) or protected cannot be referenced by other projects.

C. By creating specific RBAC permissions for each model.

D. By placing public models in a special subfolder named /public.  
**Correct Answer: B**

1. **What is the prerequisite for a cross-project reference to work in a job?**

A. Both projects must use the same data warehouse connection.

B. The job must have deferral enabled, pointing to an environment where the dependent project has already run successfully.

C. Both projects must share the same Git repository.

D. The "cross-project references" option must be manually enabled by dbt support.  
**Correct Answer: B**

#### **Topic 8: Configuring and Using dbt Explorer**

1. **Which of the following use cases is a primary purpose of dbt Explorer?**

A. Writing and testing SQL code for new models.

B. Understanding the complete data lineage, identifying critical dependencies, and visualizing the impact of changes.

C. Managing user licenses and permissions.

D. Triggering and monitoring job runs in real-time.  
**Correct Answer: B**

1. **How can dbt Explorer help optimize costs and performance?**

A. By automatically compressing tables in the warehouse.

B. By identifying complex models (with many upstream dependencies) or critical paths that could be bottlenecks during runs.

C. By providing an integrated SQL query profiler.

D. By automatically deleting unused models.  
**Correct Answer: B**

1. **A developer wants to use a model from another project. How can they use dbt Explorer to facilitate this?**

A. By running the other project's model directly from the Explorer interface.

B. By copying the compiled code displayed in Explorer.

C. By searching for the model, checking its access status (if it's public), and viewing its columns and documentation to ensure it fits their needs.

D. By directly changing the model's access level from private to public.  
**Correct Answer: C**

### **Prep Quiz - dbt Cloud Architect (Part 2)**

#### **Topic 1: Configuring Data Warehouse Connections**

1. **What is the main purpose of the "Test Connection" button in dbt Cloud project settings?**

A. To check if the syntax of the dbt\_project.yml file is correct.

B. To confirm that the provided credentials allow dbt Cloud to authenticate and execute a simple query on the warehouse.

C. To ensure that the Git provider is accessible.

D. To validate the current user's license.  
**Correct Answer: B**

1. **When a developer uses the IDE, authentication to the warehouse is handled via OAuth. How is authentication handled for a production job running on a schedule?**

A. The job uses the OAuth credentials of the developer who created the job.

B. The job uses a fixed set of credentials (e.g., login/password or key pair) configured in the environment's connection settings.

C. The job requires manual authentication for each run.

D. The job does not need to authenticate because it runs within dbt Cloud's infrastructure.  
**Correct Answer: B**

1. **If a company does not use a firewall restricting access to its cloud data warehouse (e.g., Snowflake, BigQuery), is it still necessary to configure the IP Whitelist?**

A. Yes, it's a mandatory step for all dbt Cloud connections.

B. No, if the warehouse is publicly accessible on the internet, IP whitelisting is not required to establish a connection.

C. Yes, because it improves query performance.

D. Only if you are using service tokens.  
**Correct Answer: B**

#### **Topic 2: Configuring Git Connections**

1. **What is the main reason dbt Cloud is so tightly integrated with Git?**

A. To store job run logs.

B. To allow developers to share SQL queries.

C. To provide version control for code, enable collaboration, and automate deployments (CI/CD).

D. To manage user permissions.  
**Correct Answer: C**

1. **A developer tries to "pull" the latest changes in the dbt Cloud IDE but encounters a merge conflict. Where must this conflict be resolved?**

A. Directly in the dbt Cloud user interface, which has conflict resolution tools.

B. By using Git commands on their local machine, then pushing the resolved branch to the remote repository.

C. By deleting the dbt Cloud project and recreating it.

D. By contacting dbt support.  
**Correct Answer: B**

1. **To connect a repository from a self-hosted Git provider (like GitLab Self-managed), what must be ensured from a network perspective?**

A. That the Git provider can reach dbt Cloud's IP addresses.

B. That dbt Cloud's servers can reach the Git repository's URL over the internet.

C. That all developers have VPN access to the self-hosted Git.

D. That the repository is public.  
**Correct Answer: B**

#### **Topic 3: Creating and Maintaining Environments**

1. **How can an architect programmatically force the rotation of a project's authentication key pair?**

A. By deleting and recreating the environment in the user interface.

B. By using the appropriate endpoint of the dbt Cloud administrative API.

C. By directly modifying the profiles.yml file, which triggers a new key generation.

D. It's not possible; rotation must be manual.  
**Correct Answer: B**

1. **At what level is an environment's default schema/dataset defined?**

A. In the job definition.

B. In the warehouse connection settings.

C. In the settings of the environment itself.

D. In each developer's personal profile.  
**Correct Answer: C**

1. **What is the advantage of configuring dbt to be able to defer to another environment?**

A. It allows jobs to run faster by using fewer threads.

B. In a CI job, it allows building only the modified models and reading the unmodified models directly from the production environment.

C. It automatically copies data from the production environment to the development environment.

D. It enables data lineage between environments.  
**Correct Answer: B**

#### **Topic 4: Creating and Maintaining Job Definitions**

1. **A CI job is configured to run on every Pull Request. What is the most common state reference for the dbt build --select state:modified+ command in this scenario?**

A. The last commit of the Pull Request's branch.

B. A dbt catalog generated locally by a developer.

C. The manifest (manifest.json) from a recent and reliable production job.

D. The last CI job that succeeded.  
**Correct Answer: C**

1. **What is the purpose of the "Target Name" parameter in a job's configuration?**

A. To name the destination schema for the models.

B. To specify which profile from profiles.yml to use for this run, allowing for changes to, for example, the username or role.

C. To define the name of the Git branch to use.

D. To specify the name of the target database.  
**Correct Answer: B**

1. **What is the function of the "Generate Docs" step in a job?**

A. To email the documentation to stakeholders.

B. To update and publish the project's documentation website with the latest run results.

C. To create PDF files of the documentation.

D. To validate the YAML documentation of the models.  
**Correct Answer: B**

#### **Topic 5: Configuring Security and Licenses**

1. **When setting up SSO (Single Sign-On), what do the "Identifier or Entity ID" and "Assertion Consumer Service (ACS) URL" provided by dbt Cloud represent?**

A. The credentials of the dbt administrator.

B. The information you must provide to your identity provider (e.g., Okta, Azure AD) so it knows who dbt Cloud is and where to send the user back after authentication.

C. The URLs for accessing the dbt Cloud API.

D. The license keys to activate SSO.  
**Correct Answer: B**

1. **A user is assigned a "Read-Only" license. What can they access?**

A. They can only see the dbt Cloud homepage.

B. They can view project documentation, see job definitions, and the run history, but cannot use the IDE or modify configurations.

C. They can use the IDE but cannot commit code.

D. They have the same rights as a developer but cannot trigger jobs.  
**Correct Answer: B**

1. **What is the best practice for managing the permissions of a service token intended for an external orchestration tool?**

A. Give it "Account Admin" permissions to avoid any access issues.

B. Create a custom permission group with the principle of least privilege, granting only the strictly necessary access (e.g., "Job Runner").

C. Use the same token for all external integrations.

D. Do not use service tokens and provide user credentials to the external tool.  
**Correct Answer: B**

#### **Topic 6: Setting up Monitoring and Alerting**

1. **In addition to job start and end notifications, what other type of event can trigger a webhook in dbt Cloud?**

A. A commit is pushed to the main branch.

B. A user logs in via SSO.

C. A specific model fails a data test.

D. A new Pull Request is opened (if the GitHub integration is configured).  
**Correct Answer: D**

1. **How do you configure an email alert to be sent to an entire on-call team?**

A. By adding each team member's email address, separated by commas, in the job's notification field.

B. By using the email address of a distribution list or group (e.g., data-team@company.com).

C. It is only possible to alert a single user per job.

D. By using a webhook that triggers an email sending service.  
**Correct Answer: B**

1. **A job fails. Is the configured webhook sent immediately at the moment the step fails, or at the end of the entire job run?**

A. Immediately after the command fails.

B. Only if the user manually cancels the job.

C. At the end of the job run, when its final status is determined to be "Error".

D. The webhook is not sent on failure, only on success.  
**Correct Answer: C**

#### **Topic 7: Setting up a dbt Mesh and Cross-Project References**

1. **What is the main difference between a model with public access and a model with protected access?**

A. public can be referenced by any other project; protected does not exist.

B. public can be referenced by all other projects; protected can be referenced by other projects but not by projects downstream from them.

C. public is visible in the documentation; protected is not.

D. public can be referenced by any other project, while protected can be referenced by other projects within the same group.  
**Correct Answer: D**

1. **In the dbt\_project.yml file, how do you declare a dependency on another dbt Cloud project?**

A. dependencies: { project: 'other\_project\_name' }

B. models: { depends\_on: ['other\_project\_name'] }

C. projects: { other\_project\_name: {} }

D. dependencies: { projects: [{ project: 'other\_project\_name' }] }  
**Correct Answer: D**

1. **If you reference a model from an upstream project, but your CI job does not defer to a production state, what will happen?**

A. dbt will intelligently find the model in production and use it.

B. The run will succeed but will show a warning.

C. The run will fail because dbt cannot find the referenced model in the current run's nodes.

D. dbt will try to rebuild the upstream project's model.  
**Correct Answer: C**

#### **Topic 8: Configuring and Using dbt Explorer**

1. **How does dbt Explorer represent a cross-project reference in the lineage graph?**

A. It cannot display cross-project references.

B. It displays a special icon or a different colored border on the upstream model's node to indicate it comes from another project.

C. It displays a dotted line to the upstream project.

D. It only displays the model name, without indicating its origin.  
**Correct Answer: B**

1. **A data test fails on a model. How can a developer use dbt Explorer to investigate?**

A. By re-running the test directly from the Explorer interface.

B. By selecting the model, viewing its parents (upstream models) and sources to understand where the data that might be causing the failure is coming from.

C. By modifying the test's code in the Explorer's code editor.

D. Explorer is not used for debugging, only for visualization.  
**Correct Answer: B**

1. **Which Explorer feature helps to understand the potential impact of modifying a model?**

A. The query profiler.

B. The ability to see all children (models, exposures, etc.) that directly or indirectly depend on the selected model.

C. The integration with the Git provider to see diffs.

D. The "Simulate Impact" button.  
**Correct Answer: B**

### **Prep Quiz - dbt Cloud Architect (Part 3)**

#### **Topic 1: Configuring Data Warehouse Connections**

1. **A connection test fails with a "timeout" error. What is the most likely cause?**

A. The password for the warehouse user is incorrect.

B. A network issue, such as a firewall or a misconfigured IP whitelist, is preventing dbt Cloud from reaching the warehouse.

C. The dbt version specified in the project is incompatible.

D. The associated Git repository is inaccessible.  
**Correct Answer: B**

1. **What is the fundamental difference between authentication via OAuth and authentication via a key pair in the context of dbt Cloud?**

A. OAuth is less secure than a key pair.

B. OAuth is used for authenticating individual users (IDE), while a key pair is used for authenticating services/jobs.

C. A key pair only works with Snowflake, whereas OAuth is universal.

D. There is no fundamental difference; they are two names for the same thing.  
**Correct Answer: B**

1. **If you update your warehouse credentials (e.g., the password), where should you primarily make this change in dbt Cloud?**

A. In every job that uses the connection.

B. In the connection settings at the project level.

C. In your personal user profile.

D. In the dbt\_project.yml file.  
**Correct Answer: B**

#### **Topic 2: Configuring Git Connections**

1. **What is the function of the "Import Project" button on the dbt Cloud homepage?**

A. To import data from a CSV file.

B. To clone an existing Git repository to create a new dbt Cloud project.

C. To import an environment configuration from another project.

D. To install a dbt package.  
**Correct Answer: B**

1. **A developer adds \*.csv to the .gitignore file in their dbt project. What will be the effect in dbt Cloud?**

A. CSV files can no longer be imported using the dbt seed command.

B. CSV files present in the repository will not be cloned into the dbt Cloud development environment.

C. It has no effect, as dbt Cloud ignores the .gitignore file.

D. CSV files will be automatically deleted after each dbt seed run.  
**Correct Answer: B**

1. **When configuring the integration with GitHub, why is it recommended to use the GitHub App instead of a personal access token?**

A. The GitHub App is the only method that works with private repositories.

B. The GitHub App provides more granular permissions and is not tied to a personal user account, which is more secure and robust.

C. A personal access token does not allow triggering CI jobs.

D. It is faster to set up.  
**Correct Answer: B**

#### **Topic 3: Creating and Maintaining Environments**

1. **What is the main distinction between a "Development" environment and a "Deployment" environment?**

A. Development environments cannot run jobs.

B. Development environments are tied to the developer's personal credentials, while deployment environments use fixed credentials.

C. Only deployment environments can generate documentation.

D. Development environments cannot use environment variables.  
**Correct Answer: B**

1. **An administrator wants to prevent developers from running jobs on the Production environment. How can they configure this?**

A. By not giving them the password for the production warehouse.

B. By using Role-Based Access Control (RBAC) to create a permission set that does not include access to that environment.

C. By hiding the environment from the list.

D. By setting the main branch to protected mode on GitHub.  
**Correct Answer: B**

1. **A project needs a third-party API key that is different for production and development. What is the best way to manage this?**

A. Write the key directly in the model's code with an if statement.

B. Define an environment variable in dbt Cloud with a different value for the development and production environments.

C. Store both keys in the Git repository.

D. Ask developers to enter it manually each time.  
**Correct Answer: B**

#### **Topic 4: Creating and Maintaining Job Definitions**

1. **What is "self deferral" (or "defer to self") for a job?**

A. It's when a job defers to the state of its own previous successful run.

B. It's a job that cannot be triggered by another job.

C. It's a feature to postpone a job's execution if it is already running.

D. It's the same as not using deferral.  
**Correct Answer: A**

1. **What is the purpose of the threads parameter in a job's configuration?**

A. To set the number of jobs that can run in parallel.

B. To specify the number of models dbt can build in parallel within a single run, in order to optimize speed.

C. To control the number of developers who can work on a project simultaneously.

D. To set the number of email notifications to send.  
**Correct Answer: B**

1. **What is the main utility of the "Advanced CI settings"?**

A. They allow choosing the color of Slack notifications.

B. They allow a CI job to be triggered automatically only when files in specific paths have been modified.

C. They allow CI to run on more powerful machines.

D. They enable self deferral.  
**Correct Answer: B**

#### **Topic 5: Configuring Security and Licenses**

1. **A user leaves the company. When an administrator deletes their dbt Cloud account, what happens to the jobs they created?**

A. They are automatically deleted.

B. They are automatically reassigned to the account administrator.

C. They become orphaned and cannot be modified until a new owner is assigned.

D. They continue to run but can no longer be modified.  
**Correct Answer: B**

1. **What is the difference between assigning permissions to an individual user and to a group?**

A. Group permissions always take precedence over individual permissions.

B. Assigning by group simplifies management at scale, ensuring that all members of a team have the same rights consistently.

C. Individual permissions are temporary, while group permissions are permanent.

D. There is no difference; it's just a matter of visual preference.  
**Correct Answer: B**

1. **To implement RBAC, what is the first logical step?**

A. Assign users to projects.

B. Create groups that reflect teams or roles (e.g., "Data Analysts", "Analytics Engineers").

C. Create service tokens.

D. Configure the warehouse connection.  
**Correct Answer: B**

#### **Topic 6: Setting up Monitoring and Alerting**

1. **What happens if a webhook URL configured in a job is no longer valid or the receiving service is down?**

A. The dbt Cloud job fails with a notification error.

B. The dbt Cloud job completes its run normally, but the notification is lost.

C. dbt Cloud tries to resend the notification every hour for 24 hours.

D. An email alert is sent to the account administrator to inform them of the webhook failure.  
**Correct Answer: B**

1. **To quickly debug a job failure from a Slack notification (sent via webhook), what is the most crucial piece of information to include in the custom message?**

A. The dbt version used.

B. The name of the person who wrote the code.

C. A direct link to the run page (Run URL) in dbt Cloud.

D. The estimated cost of the run.  
**Correct Answer: C**

1. **A job contains 100 models. Is it possible to configure an alert that triggers if a specific model fails, but not others?**

A. Yes, via advanced notification settings at the model level.

B. No, dbt Cloud notifications operate at the job level (overall success or failure).

C. Yes, by using the dbt API to monitor logs in real-time.

D. Yes, if the model is in a separate project.  
**Correct Answer: B**

#### **Topic 7: Setting up a dbt Mesh and Cross-Project References**

1. **Project A and Project B both define a public model named dim\_customers. In Project C, which depends on both, what happens when {{ ref('dim\_customers') }} is called?**

A. dbt uses the model from the first project declared in dbt\_project.yml.

B. dbt asks the user to choose which one to use during the run.

C. The run fails due to an ambiguous reference, as dbt cannot choose between the two.

D. dbt merges the two models into one.  
**Correct Answer: C**

1. **A model is defined as private. Can it be referenced by another model within the SAME project?**

A. No, private means it cannot be referenced by any other model.

B. Yes, the access modifier (public, private, etc.) only governs cross-project references.

C. Only if the models are in the same subfolder.

D. Only if the source() function is used instead of ref().  
**Correct Answer: B**

1. **How does the environment type (development vs. deployment) affect cross-project references?**

A. They only work in deployment environments.

B. In development, references resolve to models built in your development schema, whereas in deployment, they rely on deferral to a production state.

C. The environment type has no impact on how they work.

D. In development, all cross-project references are automatically ignored.  
**Correct Answer: B**

#### **Topic 8: Configuring and Using dbt Explorer**

1. **How does dbt Explorer indicate that a model is materialized as an incremental table?**

A. The node's name is in italics.

B. It displays a specific icon or color on the node to indicate the materialization strategy.

C. It is not possible to see the materialization strategy in Explorer.

D. You have to click on the node to see its SQL code.  
**Correct Answer: B**

1. **A new analyst joins the team. How can they use dbt Explorer to quickly understand the project's structure?**

A. By viewing the graph to identify sources, staging, intermediate, and marts models, and understanding the data flow.

B. By running all dbt commands from Explorer.

C. By reading the logs of all past jobs.

D. By looking at the list of files in the IDE.  
**Correct Answer: A**

1. **How are tests displayed in dbt Explorer?**

A. They are not visible in Explorer.

B. They appear as nodes in the graph, connected to the models they test, often with a distinct color (e.g., green, yellow, red) to indicate their status.

C. They are listed in a separate table, without a visual link to the models.

D. Only tests that have failed are displayed.  
**Correct Answer: B**

### **Prep Quiz - dbt Cloud Architect (Part 4)**

#### **Topic 1: Configuring Data Warehouse Connections**

1. **A job runs correctly in production, but a developer cannot run queries in the IDE with the same project. What is the most likely cause?**

A. The Git repository is not synchronized.

B. The OAuth configuration for user authentication in the IDE is incorrect or their warehouse permissions are missing, even if the job's credentials are correct.

C. The environment's dbt version is outdated.

D. The developer does not have a dbt Cloud license.  
**Correct Answer: B**

1. **What is the main security risk if you do NOT use IP Whitelisting for a warehouse that supports it?**

A. Job performance will be degraded.

B. dbt Cloud jobs might fail randomly.

C. If your warehouse credentials are compromised, an attacker could connect to it from anywhere on the internet.

D. You will not be able to use OAuth authentication.  
**Correct Answer: C**

1. **When creating a new project connection, is it mandatory to immediately link it to a Git repository?**

A. Yes, the warehouse connection cannot be tested without an active Git connection.

B. No, you can configure and test the warehouse connection before setting up the Git integration.

C. Yes, otherwise the warehouse credentials cannot be saved.

D. No, but you will not be able to use the IDE.  
**Correct Answer: B**

#### **Topic 2: Configuring Git Connections**

1. **A developer accidentally commits a very large file (e.g., 500 MB) to the repository. What impact can this have on dbt Cloud?**

A. None, dbt Cloud ignores non-.sql and non-.yml files.

B. Cloning the repository in the IDE and at the start of each job will be much slower, increasing wait and run times.

C. The project will be corrupted and will need to be re-imported.

D. The connection to the data warehouse will fail.  
**Correct Answer: B**

1. **What does the "git clone" option in the dbt Cloud IDE allow you to do?**

A. Create a new branch.

B. Push changes to the remote repository.

C. Reset the local branch to the state of the remote repository, discarding uncommitted changes.

D. Trigger a CI job.  
**Correct Answer: C**

1. **If you change your repository's default branch name from master to main, what must you update in dbt Cloud?**

A. Nothing, dbt Cloud automatically detects the change.

B. You must update the branch configured for your production environment and potentially other configurations that reference the old branch.

C. Only your user profile configuration.

D. You must re-import the project.  
**Correct Answer: B**

#### **Topic 3: Creating and Maintaining Environments**

1. **How can you use an environment variable to have developers work on a sample of data rather than the full production dataset?**

A. By creating an is\_development variable and using it in the SQL code to add a LIMIT or WHERE clause.

B. By naming the environment "sample\_data".

C. This is impossible; developers always work on the full dataset.

D. By using a variable to change the target.schema.  
**Correct Answer: A**

1. **What is the best practice for schema management in a development environment?**

A. All developers write to the same schema to facilitate collaboration.

B. Each developer is assigned a unique schema to avoid conflicts when building models.

C. Development schemas are deleted after each commit.

D. Developers do not need to write to a schema; they only read from production.  
**Correct Answer: B**

1. **A Staging environment is created to test Pull Requests before merging them into main. What is the most logical configuration for this environment?**

A. It should be linked to the main branch and use the same credentials as production.

B. It should be a development environment with no associated jobs.

C. It should be a deployment environment, triggered by CI jobs, and write to a separate schema or database (staging\_db).

D. It should use self deferral.  
**Correct Answer: C**

#### **Topic 4: Creating and Maintaining Job Definitions**

1. **What is the difference between dbt build and running dbt run then dbt test as separate steps?**

A. There is no difference; dbt build is just a shortcut.

B. dbt build runs a model's tests immediately after it is built, which can be more efficient for identifying errors earlier.

C. dbt build cannot be used in CI jobs.

D. dbt build also runs dbt seed and dbt snapshot.  
**Correct Answer: B**

1. **A job is failing intermittently. What is the first debugging step in the dbt Cloud interface?**

A. Increase the number of threads.

B. Change the dbt version.

C. Carefully examine the logs of the failed run to identify the precise step and error message.

D. Delete and recreate the job.  
**Correct Answer: C**

1. **What is the function of the dbt source freshness command in a job?**

A. To update the project's documentation.

B. To check if the data from raw sources is up-to-date against defined thresholds, and to generate errors or warnings if it is stale.

C. To refresh the source tables by reloading data.

D. To test the connection to data sources.  
**Correct Answer: B**

#### **Topic 5: Configuring Security and Licenses**

1. **An external auditor requests a report of all user permissions for a specific project. Which dbt Cloud Enterprise feature is best suited to fulfill this request?**

A. The job run history.

B. The Audit Log, which tracks permission changes.

C. The configuration screens for Groups and Permission Sets.

D. Notification webhooks.  
**Correct Answer: C** (combined with the Audit Log for history).

1. **Why is it important to configure groups and permission sets even for a small team?**

A. To use more dbt Cloud licenses.

B. To prepare for team scalability and ensure that new people receive the correct permissions consistently and securely.

C. To improve job performance.

D. It is a requirement for using Git integration.  
**Correct Answer: B**

1. **What type of permission is required to be able to modify the billing settings of a dbt Cloud account?**

A. Job Admin

B. Account Admin

C. Billing Admin

D. Security Admin  
**Correct Answer: C** and B, as Account Admin typically includes these rights.

#### **Topic 6: Setting up Monitoring and Alerting**

1. **Your team finds the email notifications too "noisy". How could you make them less so?**

A. By disabling all email notifications.

B. By modifying jobs to only send notifications for runs on the main branch, and not for CI jobs.

C. By creating a rule in your email client to delete emails from dbt.

D. By reducing the run frequency of jobs.  
**Correct Answer: B**

1. **What is a use case for triggering a webhook at both the start (on\_start) and the end (on\_success/on\_failure) of a job?**

A. To ensure the notification is received.

B. To accurately measure the duration of a job in an external monitoring system.

C. This is a bad practice that creates duplicates.

D. To test the webhook system.  
**Correct Answer: B**

1. **Can dbt Cloud notifications alert you if a job has NOT started as scheduled?**

A. Yes, there is a specific "Scheduled run did not start" alert.

B. No, dbt Cloud notifications only trigger for events related to a job run (start, success, failure).

C. Only if you use webhooks.

D. Yes, but only for Enterprise accounts.  
**Correct Answer: B**

#### **Topic 7: Setting up a dbt Mesh and Cross-Project References**

1. **What is the primary purpose of configuring a group on a model in the context of dbt Mesh?**

A. To visually organize models in the documentation.

B. To allow models with protected access to be referenced by other models in the same group, even if they are in different projects.

C. To assign code owners to a set of models.

D. To improve the run performance of models in that group.  
**Correct Answer: B** (combined with C).

1. **A finance project depends on a public model from the core\_data project. If the core\_data team modifies this public model in a way that breaks the dependency, how will the finance team be alerted?**

A. dbt Cloud automatically sends a notification to the owners of the dependent projects.

B. The finance project's CI job will fail on its next run, flagging the issue.

C. The modification will be automatically blocked if it breaks downstream dependencies.

D. The alert is handled by manual communication; dbt does not manage this type of social dependency.  
**Correct Answer: B**

1. **Is it possible to use dbt source freshness on a table that is actually a public model from another project?**

A. No, freshness can only be checked on defined raw sources.

B. Yes, by defining that model as a source in the downstream project, you can check its freshness like any other source.

C. No, because this would violate the principles of dbt Mesh.

D. Only if both projects are in the same Git repository.  
**Correct Answer: B**

#### **Topic 8: Configuring and Using dbt Explorer**

1. **How can an architect use dbt Explorer to assess the "blast radius" of modifying a data source?**

A. By simulating a run.

B. By selecting the source node and examining all its children (downstream dependencies) to see how many models and exposures will be affected.

C. By looking at the Git history of the source's configuration file.

D. By counting the number of columns in the source.  
**Correct Answer: B**

1. **In dbt Explorer, what does a source node with a red outline mean?**

A. The source is no longer used and can be deleted.

B. The last source freshness check failed or is stale (its state is "error").

C. The source contains personally identifiable information (PII).

D. The source is currently being modified by another developer.  
**Correct Answer: B**

1. **Can dbt Explorer completely replace the need to read a project's SQL code?**

A. Yes, it is a fully visual tool that makes code obsolete.

B. No, it is a visualization and discovery tool that complements reading the code; it does not show the complex business logic within the SQL.

C. Yes, because it includes a translator from SQL to natural language.

D. No, because it only displays models that have passed their tests.  
**Correct Answer: B**

This completes the translation of all 96 questions. Good luck with your studies! 🚀