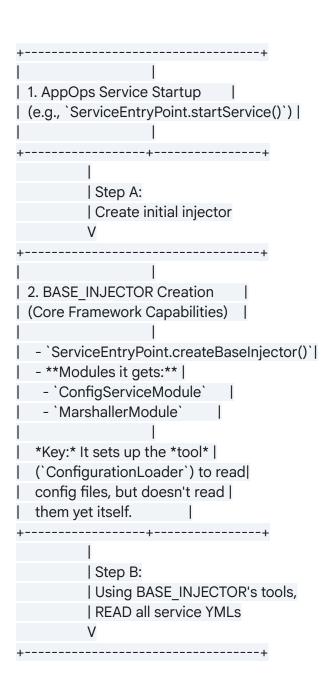
You're asking for a very specific and crucial distinction in the AppOps startup process! Let's clarify how the BASE\_INJECTOR and SERVICE\_INJECTOR interact with configuration files and modules.

Your understanding is partially correct: the BASE\_INJECTOR sets up the *ability* to load configurations, and the SERVICE\_INJECTOR uses that ability to bring in the rest.

Here's the refined flow, focusing on your question:



```
3. READING ALL SERVICE YMLs
| (Discovering all service config data) |
  - `ServiceConfigurationLoader` |
  (Gets `ConfigurationLoader` from BASE INJECTOR)
  - Reads `app.yml` / `core.yml` for base service config.|
  - Reads *all other service YML files* (`user-service.yml`, `github-auth.yml`, etc.)|
  *Result:* `ServiceConfiguration` objects are populated with data, including lists of modules
          | Step C:
          | Create the main injector
          I based on read YMLs & Base
4. SERVICE INJECTOR Creation
| (Application-Specific Services & Configs) |
  - `ServiceEntryPoint.createServiceInjector()`|
  - **It INHERITS all modules/bindings from BASE INJECTOR.**|
  - **Modules it additionally gets:** |
   - Modules *extracted from the YMLs read in Step 3* |
    (e.g., `JettyWebServiceModule` if specified in YML, |
    other custom service modules declared in YMLs).
    - `ServiceBaseModule`
  *Key:* This injector now has
  knowledge of all services and their modules.
          | Step D:
          | Use SERVICE INJECTOR's tools
          I to finally populate specific
          | @UserConfig objects.
5. POPULATING @UserConfig Objects
| (Filling your config classes with values) |
```

## **Key Takeaways for your question:**

- BASE\_INJECTOR: Its main role is to set up the core framework services, particularly
  the ConfigurationLoader and Marshaller. It doesn't directly read app.yml or configure
  specific service settings based on it. It provides the engine for reading.
- ServiceConfigurationLoader (using BASE\_INJECTOR's ConfigurationLoader): This is
  the component that reads app.yml/core.yml and all other service-specific .yml files. It
  parses these files into ServiceConfiguration objects, which contain information about the
  modules and other settings.
- SERVICE INJECTOR:
  - It inherits everything from BASE\_INJECTOR. So, it also has access to the ConfigurationLoader.
  - Crucially, it gets additional modules (like JettyWebServiceModule or your custom business logic modules) that were identified and extracted from the .yml files in Step 3.
  - Once the SERVICE\_INJECTOR is created, it's used in Step 5
     (initializeServices()/loadConfig()) to finally take the parsed configuration data and populate the actual @UserConfig objects into the ConfigurationStore, making them available for injection into your services like Authenticator.java.

So, the YML files are *read* after BASE\_INJECTOR is set up, and the SERVICE\_INJECTOR is then *built* based on the information derived from those YMLs, and *then* used to actually populate

the final configuration classes.