JWT

JSON Web Token (JWT) is an internet standard for creating access tokens based on JSON. They don't need to be stored in a database: the data is self-contained inside and cryptographically signed.

Configuration

```
from fastapi_users.authentication import JWTStrategy

SECRET = "SECRET"

def get_jwt_strategy() -> JWTStrategy:
    return JWTStrategy(secret=SECRET, lifetime_seconds=3600)
```

As you can see, instantiation is quite simple. It accepts the following arguments:

- secret (Union[str, pydantic.SecretStr]): A constant secret which is used to encode the token. Use a strong passphrase and keep it secure.
- lifetime_seconds (Optional[int]): The lifetime of the token in seconds. Can be set to None but in this case the token will be valid **forever**; which may raise serious security concerns.
- token_audience (Optional[List[str]]): A list of valid audiences for the JWT token.

 Defaults to ["fastapi-users:auth"].
- algorithm (Optional[str]): The JWT encryption algorithm. See RFC 7519, section 8.
 Defaults to "HS256".
- public_key (Optional[Union[str, pydantic.SecretStr]]): If the JWT encryption algorithm requires a key pair instead of a simple secret, the key to **decrypt** the JWT may be provided here. The secret parameter will always be used to **encrypt** the JWT.

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Why it's inside a function?

To allow strategies to be instantiated dynamically with other dependencies, they have to be provided as a callable to the authentication backend.

For JWTStrategy, since it doesn't require dependencies, it can be as simple as the function above.

RS256 example

```
from fastapi_users.authentication import JWTStrategy
PUBLIC_KEY = """----BEGIN PUBLIC KEY----
# Your RSA public key in PEM format goes here
----END PUBLIC KEY----"""
PRIVATE_KEY = """----BEGIN RSA PRIVATE KEY-----
# Your RSA private key in PEM format goes here
----END RSA PRIVATE KEY----"""
def get_jwt_strategy() -> JWTStrategy:
    return JWTStrategy(
        secret=PRIVATE_KEY,
        lifetime_seconds=3600,
        algorithm="RS256",
        public_key=PUBLIC_KEY,
```

Logout

On logout, this strategy won't do anything. Indeed, a JWT can't be invalidated on the server-side: it's valid until it expires.