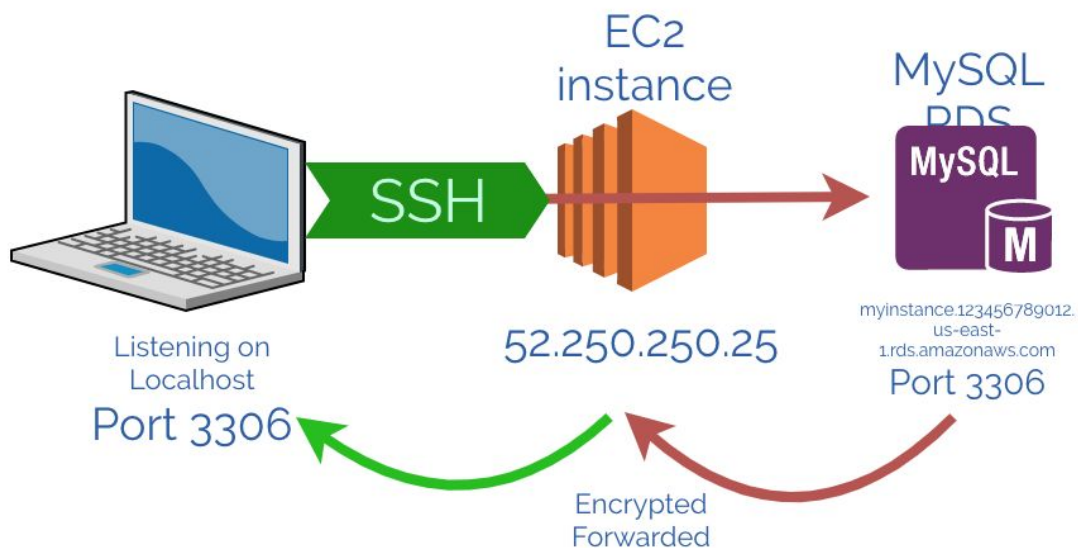


Dbeaver SSH 터널 기능 활용한 RDS 접속 방법

1. 터널링 구조 설명

- 개발자 -> Bastion 서버의 SSH (port 22) 통한 연결 -> 터널링 통한 internal port와 end-point의 port를 연결 해주는 역할 수행 -> Bastion 에서 End-point로 통신 연결
- 따라서, **방화벽 연결이 필요한데** 두개의 방화벽 inbound Rule이 필요함
 - a. Bastion EC2 SG에서 Client의 공인 아이피에 대해서 SSH Port 허용 (port 22)
 - b. 대상 어플리케이션 (RDS)에서 Bastion 으로 Port 허용 (Postgre 5432)



- SSH 연결 수립 뒤 외부로부터 데이터를 보호할 수 있는 일종의 연결 통로를 터널이라고 부름.
- Tip : DB Eaver의 SSH Tunnel 기능을 활용 하지만, 아래와 같이 SSH 명령을 통해서도 가능 (localhost의 3307 port로 연결 시, rds 3306 포트로 터널링 연결)
 - `ssh -N -L 3307:my-rds-db.ap-northeast-2.rds.amazonaws.com:3306 ec2-my-bastion-server.compute-1.amazonaws.com`

2. DB eaver 설치 :

- MAC : `brew cask install dbeaver-community`
- Windows : <https://dbeaver.io/download/>

3. RDS End-point 확인

The screenshot shows the AWS Management Console interface. At the top, the '서비스' (Services) dropdown menu is highlighted with a red box. Below it, the 'Amazon RDS' section is visible. In the left-hand navigation pane, the '데이터베이스' (Database) option is highlighted with a red box and an arrow pointing to it, labeled '2. Database 선택'. The main content area shows the '데이터베이스' (Database) page. The 'RDS > 데이터베이스' breadcrumb is at the top. Below it, the '데이터베이스' (Database) section is visible. A search bar for '데이터베이스 필터' (Database filter) is present. Below the search bar, the 'DB 식별자' (DB identifier) section is visible. A list of database instances is shown, with 'ming-3t-an2-p-db-postgre' highlighted by a red box and an arrow pointing to it, labeled '3. 대상 DB 선택'. Other instances listed include 'ming-test', 'quest', and 'suhyeong-dev-rds'.

엔드포인트 확인 (RDS -> Database -> DB 선택)

- End-point 주소 확인

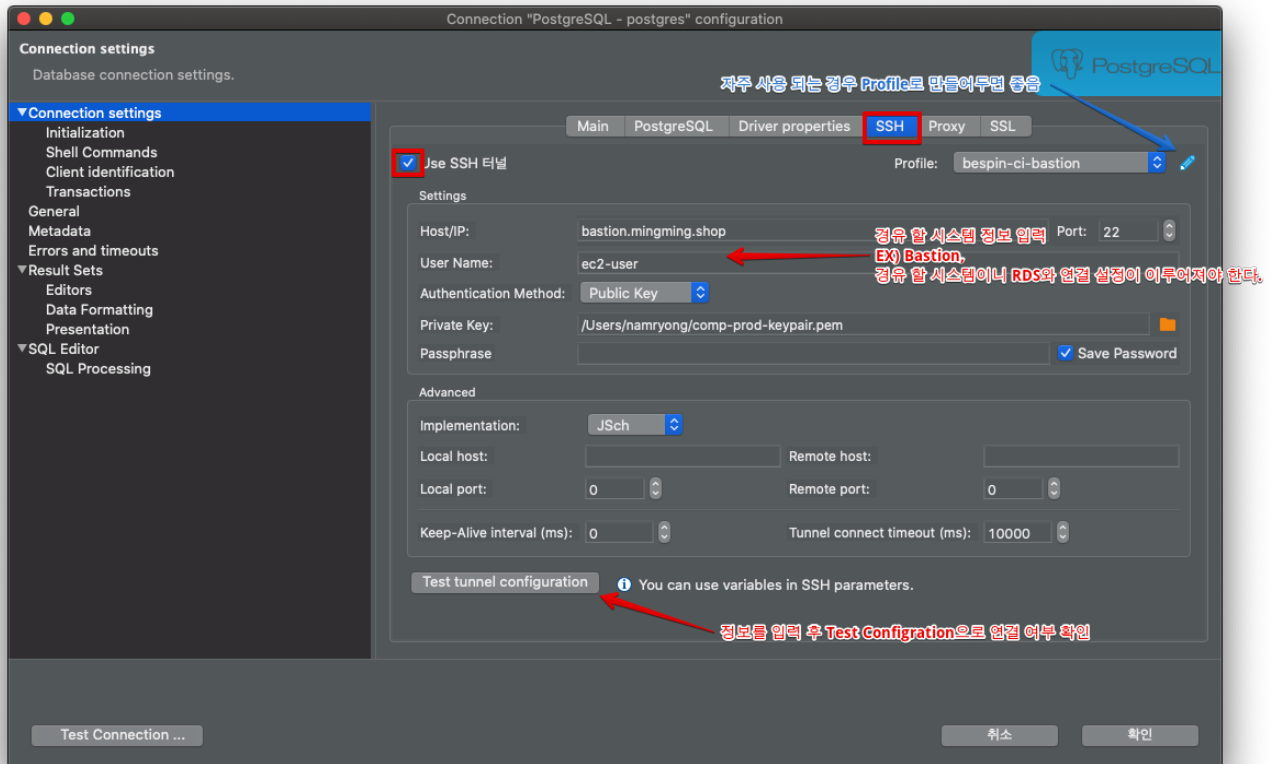
The screenshot shows the AWS Management Console interface for the 'ming-3t-an2-p-db-postgre' database instance. The breadcrumb path is 'RDS > 데이터베이스 > ming-3t-an2-p-db-postgre'. The instance name 'ming-3t-an2-p-db-postgre' is displayed at the top. Below it, the '요약' (Summary) section is visible, showing details such as 'DB 식별자' (DB identifier), 'CPU', '정보' (Info), '클래스' (Class), '역할' (Role), '현재 활동' (Current activity), '엔진' (Engine), and '리전 및 AZ' (Region and Availability Zone). The '연결 & 보안' (Connect & Security) tab is selected. This tab shows details about the endpoint and security. The '엔드포인트 및 포트' (Endpoint and Port) section is visible, showing the '엔드포인트' (Endpoint) as 'ming-3t-an2-p-db-postgre.c7iudllookzy.ap-northeast-2.rds.amazonaws.com' and the '포트' (Port) as '5432'. The '네트워킹' (Networking) section shows the '가용 영역' (Availability Zone) as 'ap-northeast-2a' and the 'VPC' as 'ming-3t-an2-p-vpc (vpc-0e9007ac1e777fad0)'. The '보안' (Security) section shows the 'VPC 보안 그룹' (VPC Security Group) as 'ming-3t-an2-p-rds-sg (sg-05edb36ded629273a)' and the 'API 보안 그룹' (API Security Group) as 'ming-3t-an2-p-api-sg (sg-0954103cb40d021b1)'.

4. DBEever 실행

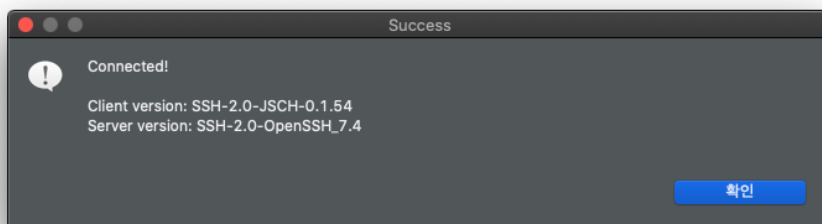
RDS Host 정보 입력

- Host : RDS End-point 입력
- User : RDS 생성시 입력한 User Name
- Password :
- Database : 생성 하지 않았다면 빈 칸으로..

[SSH] Tab 선택 후 [Use SSH 터널] 체크.



[Test Configuration] 을 SSH 연결 확인.
성공 시 아래와 같은 메시지 출력.



[Test Connection] 클릭해서 DB 연결이 되는지 확인

