



Target group SSL VPN Enhancement Project

SSL VPN User Manual (Windows)

23.09.04

caution

* This user manual is for VPN Agent and mobile biometric authentication application. It is written based on use.

Install VPN Agent (PC) □ Install VPN Client (PC) → Mobile biometric authentication application What to use after installation

Please note that this is recommended , and other usage instructions are provided after the recommendation .

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- 4. Biometric authentication app NPass Installation (iPhone)**
- 5. VPN connection (using Agent)**
- 6. VPN connection (without agent)**
- 7. VPN logout**



1. VPN homepage connect

1-1. Click on the internet browser → in the address bar vpn.daesang.com Connect after entering

The screenshot shows a Microsoft Edge browser window with the title '[DAESANG SSL VPN] PC MAIN'. The address bar contains 'vpn.daesang.com/main' with a red box and the number '2' above it, indicating the step to enter the URL. To the left of the address bar are icons for Microsoft Edge (highlighted with a red circle) and Chrome. The page itself features the deSang logo at the top, followed by 'VPN' and '사용자 접속' (User Connection). A message in Korean on the right side says: 'VPN 접속을 위해 여기에서 VPN Agent를 다운로드 받아 설치해주세요.' and 'VPN Agent가 설치되었다면 VPN 접속을 위해 시작하기 버튼을 눌러주세요.' Below this is a large red '시작하기' button. At the bottom, there is a notification bar with the text '공지사항' and '공지사항이 없습니다.' A small bell icon is also present.



2. Download and install VPN program

2-1. Click the 'here' button on the right to download

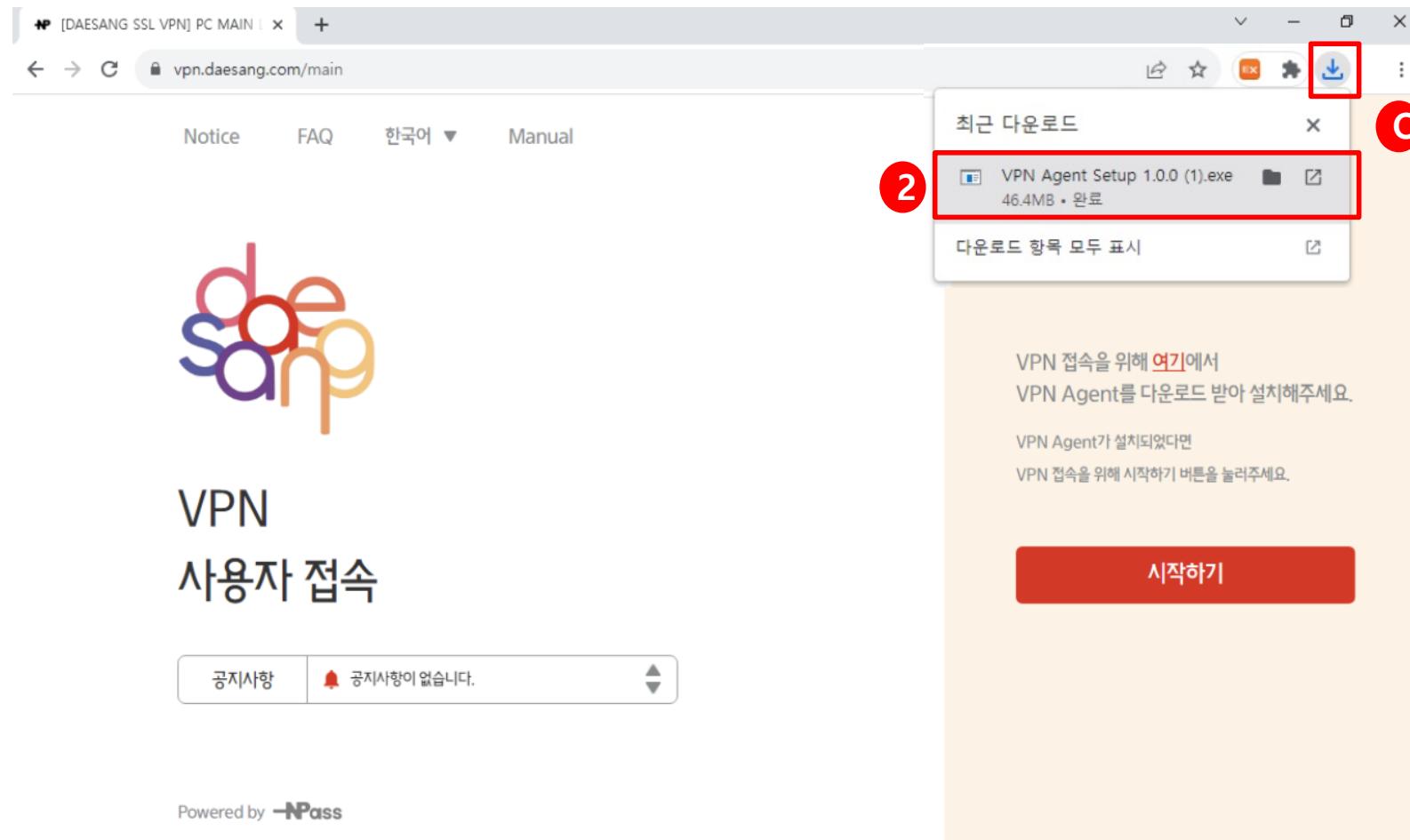
The screenshot shows a web browser window with the URL vpn.daesang.com/main. The page content includes:

- Logo: daesang
- Title: VPN 사용자 접속
- Text: "VPN 접속을 위해 [여기에서](#) VPN Agent를 다운로드 받아 설치해주세요." (VPN 접속을 위해 시작하기 버튼을 눌러주세요.)
- Text: "VPN Agent가 설치되었다면" and "VPN 접속을 위해 시작하기 버튼을 눌러주세요."
- Red button: 시작하기
- Feedback message: "공지사항" (Notice) and "공지사항이 없습니다." (No notices available)
- Powered by: NPass



2. Download and install VPN program

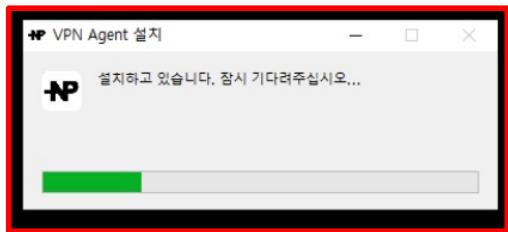
2-2. After checking the download in the upper right corner, click the installation file to install



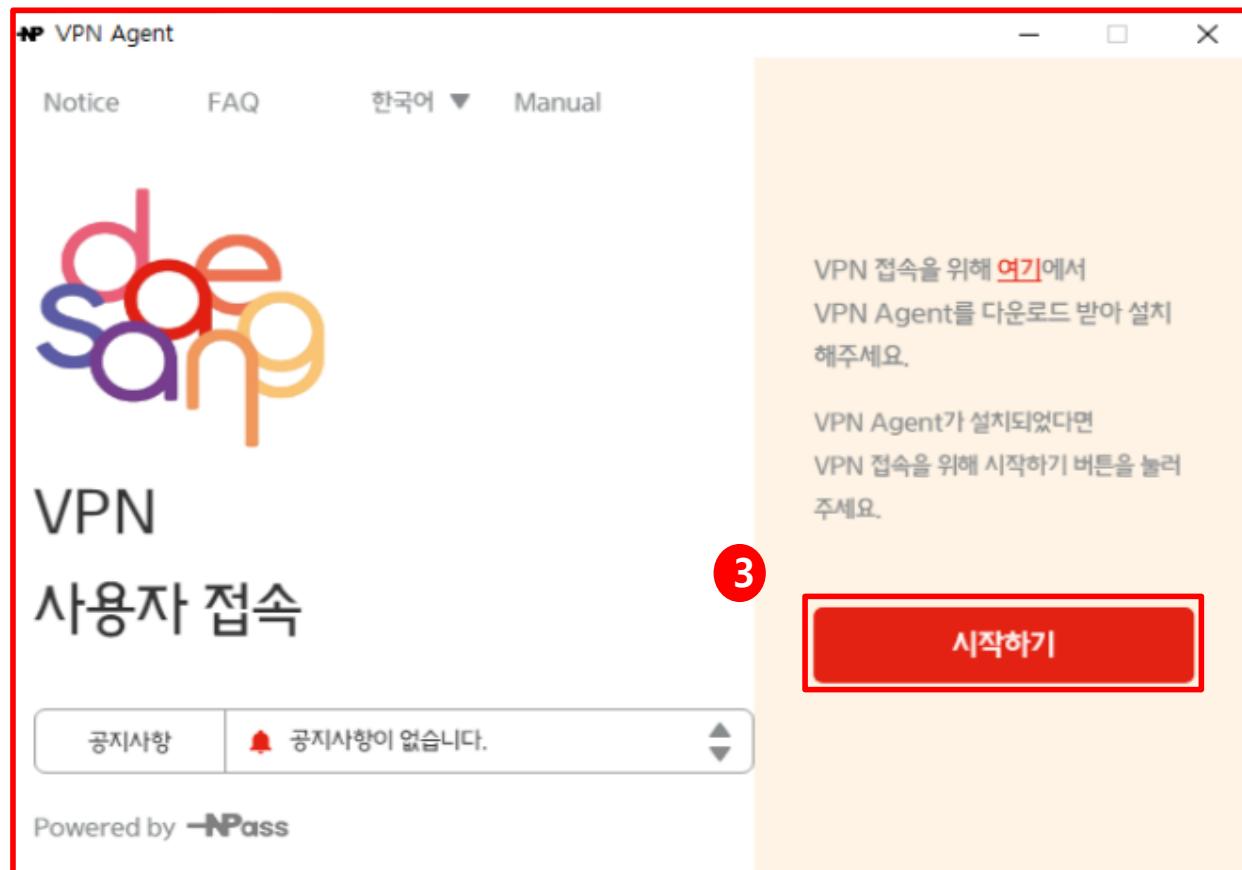
2. Download and install VPN program

2-3. Proceed with VPN Agent installation → After installation is complete, VPN Agent runs automatically → Click the Start button

0



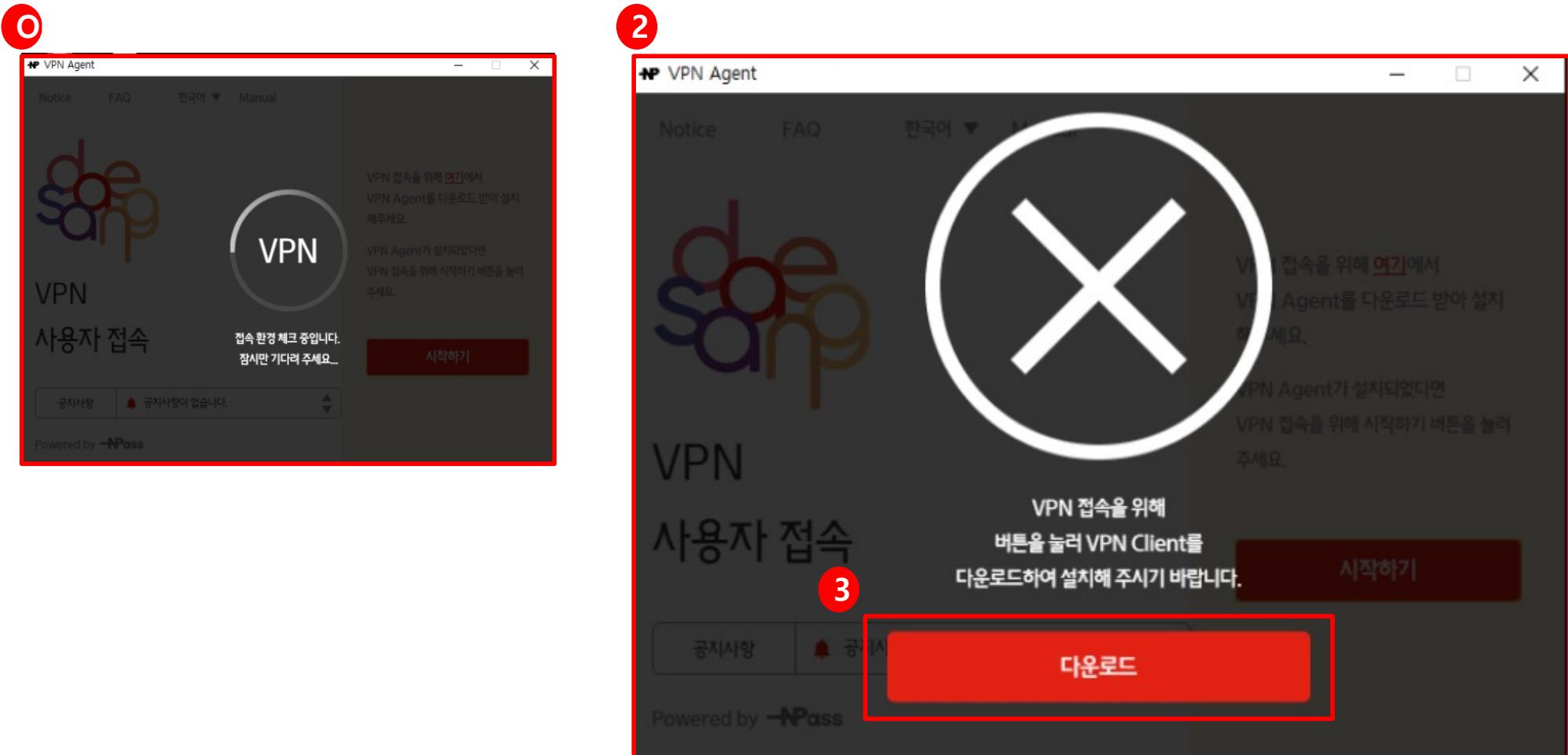
2



3

2. Download and install VPN program

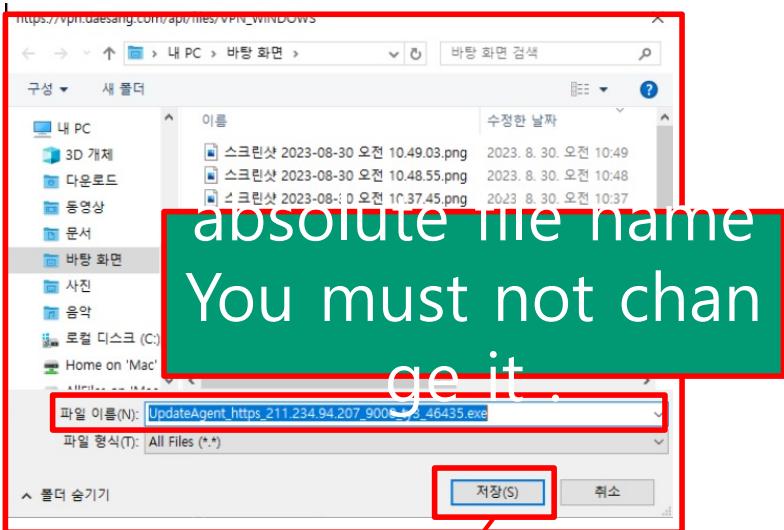
2-4. Check the connection environment → VPN Client installation page → Click the download button



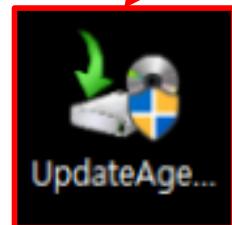
2. Download and install VPN program

2-5. Save the file and run it → Click the " Yes " button in the device change permission notification window.

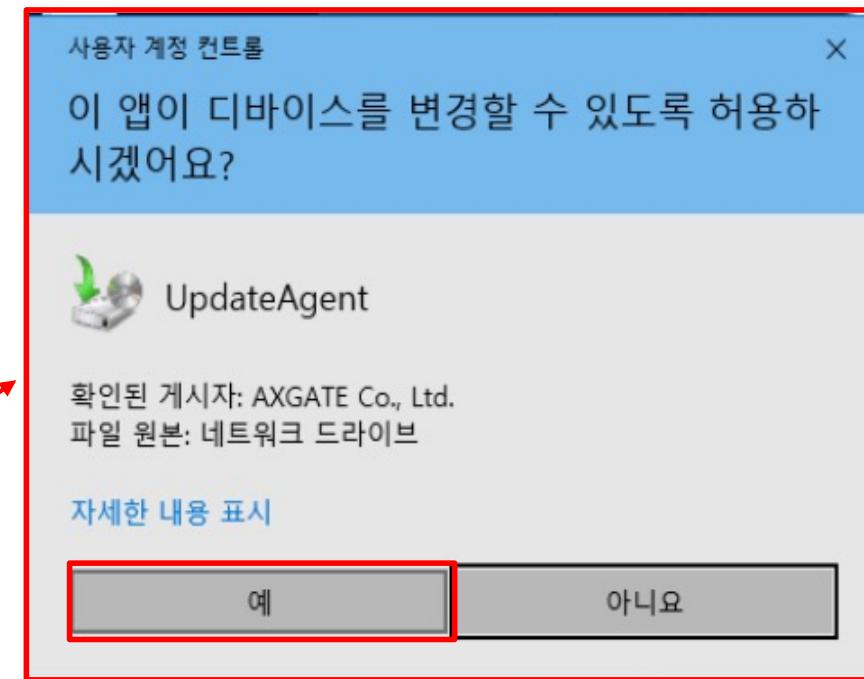
0



2



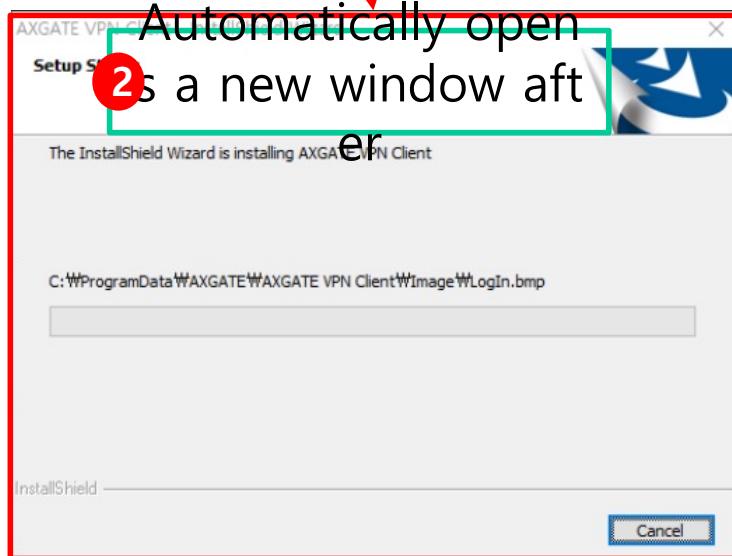
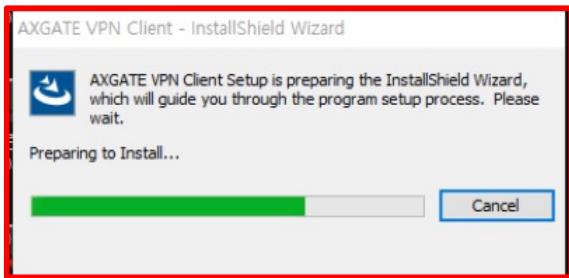
3



2. Download and install VPN program

2-6. Install VPN Client → After installation is complete, click the

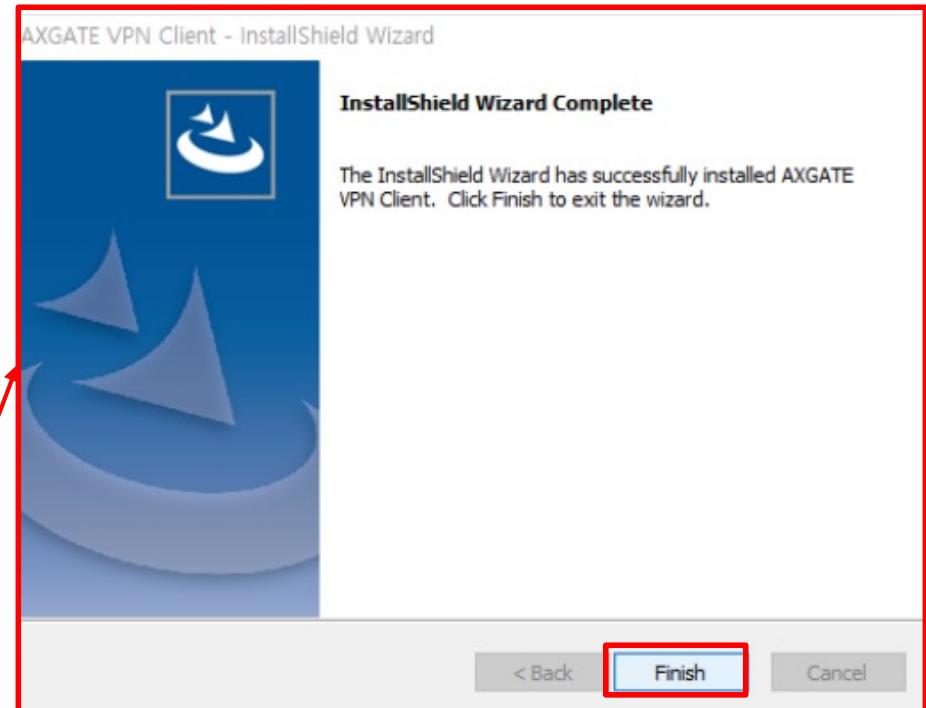
①



②

Automatically open
a new window aft
er

③

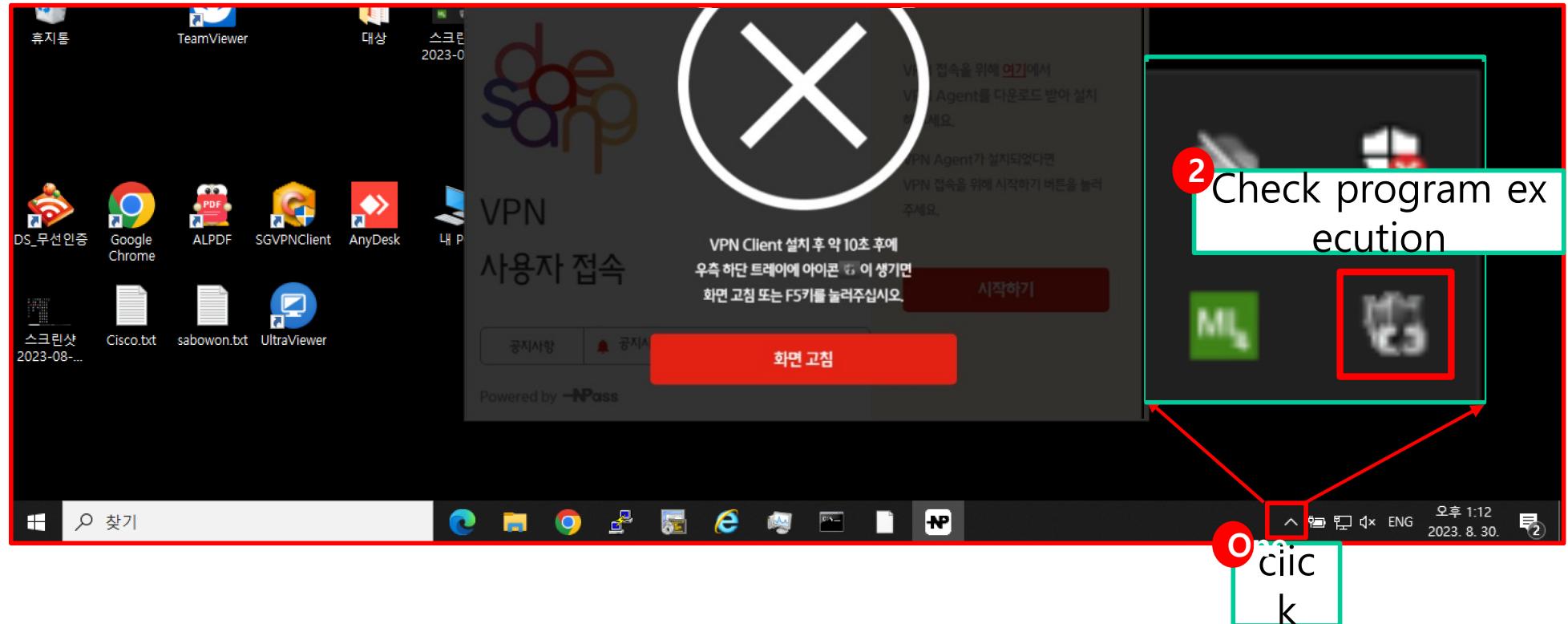




2. Download and install VPN program

2-7. After installation is complete, check the program is running in the lower right tray.

(10 seconds after installation is complete, the VPN program automatically runs as shown below .)



2. Download and install VPN program

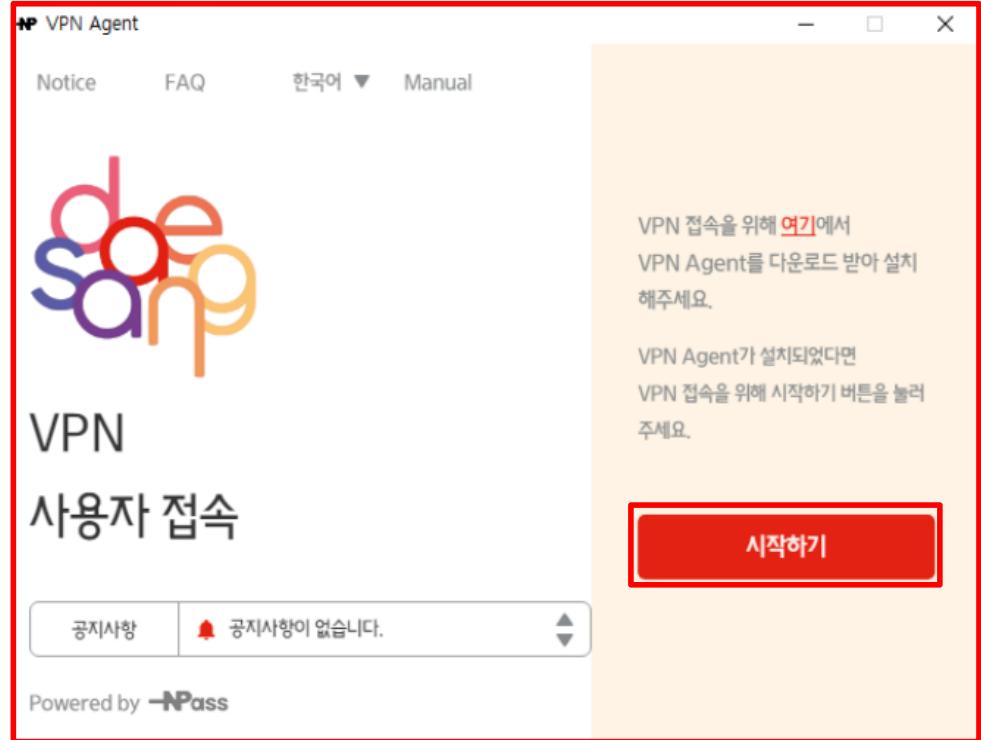
2-8. After confirming that the program is running, click ' Refresh Screen ' with VPN Agent → Return to the existing screen and click



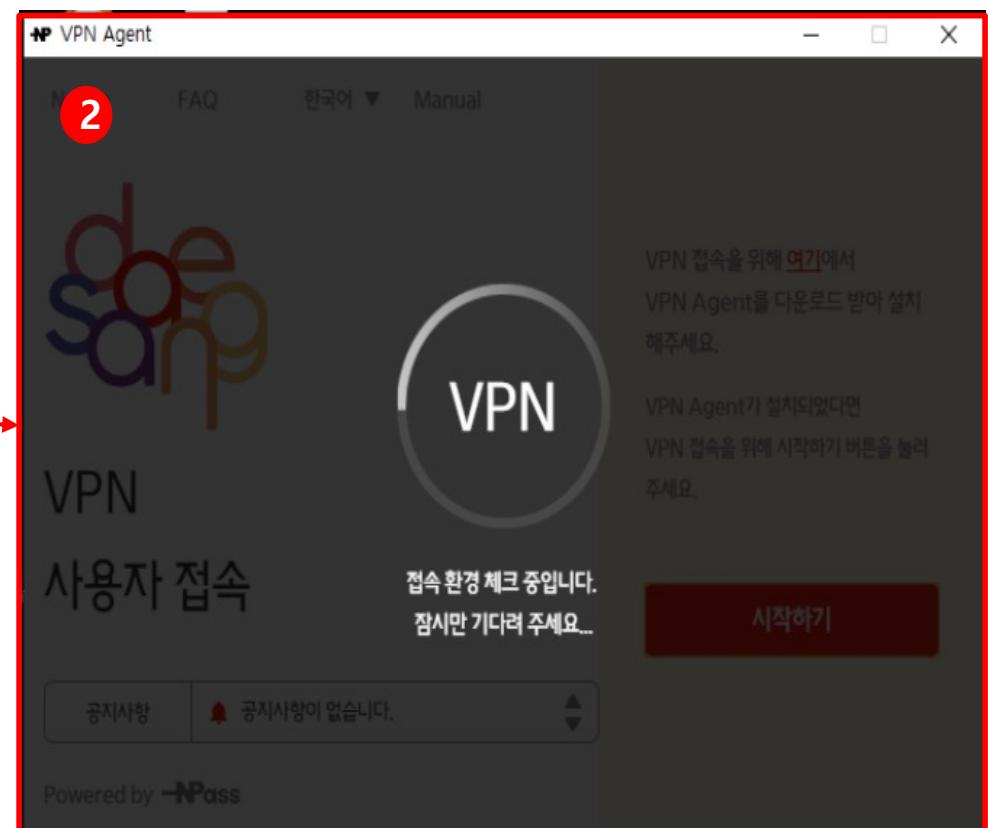
3. Biometric authentication app NPass Installation (Android)

3-1. Run VPN Agent and click Start

1



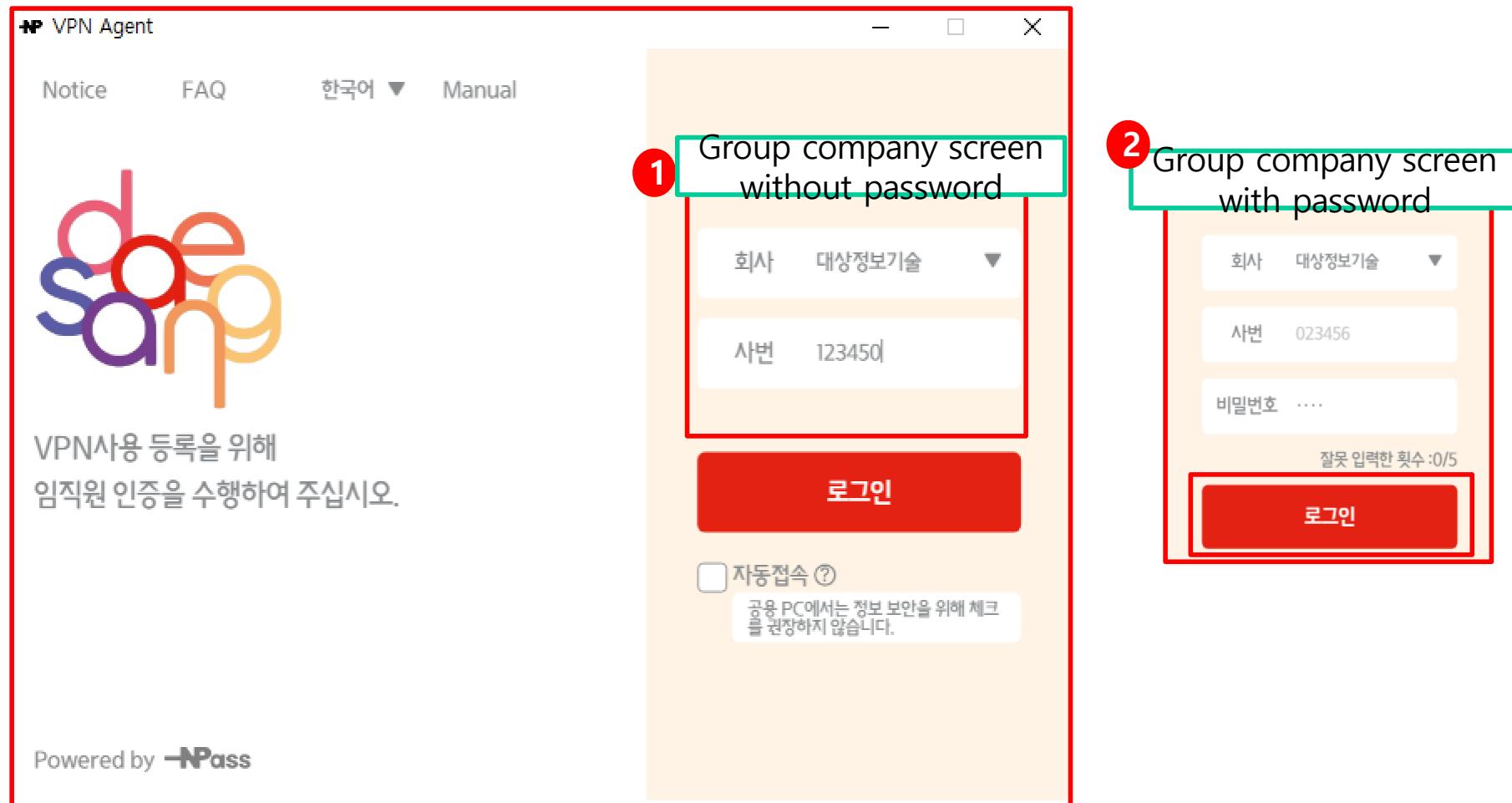
2



3. Biometric authentication app NPass Installation (Android)

3-2. After entering the company , employee number, and password, click the Login button.

* For certain group companies, a field to enter the password may appear .



3. Biometric authentication app NPass Installation (Android)

3-3. After confirming that your mobile ph1 number is correct, click Send Verification Code

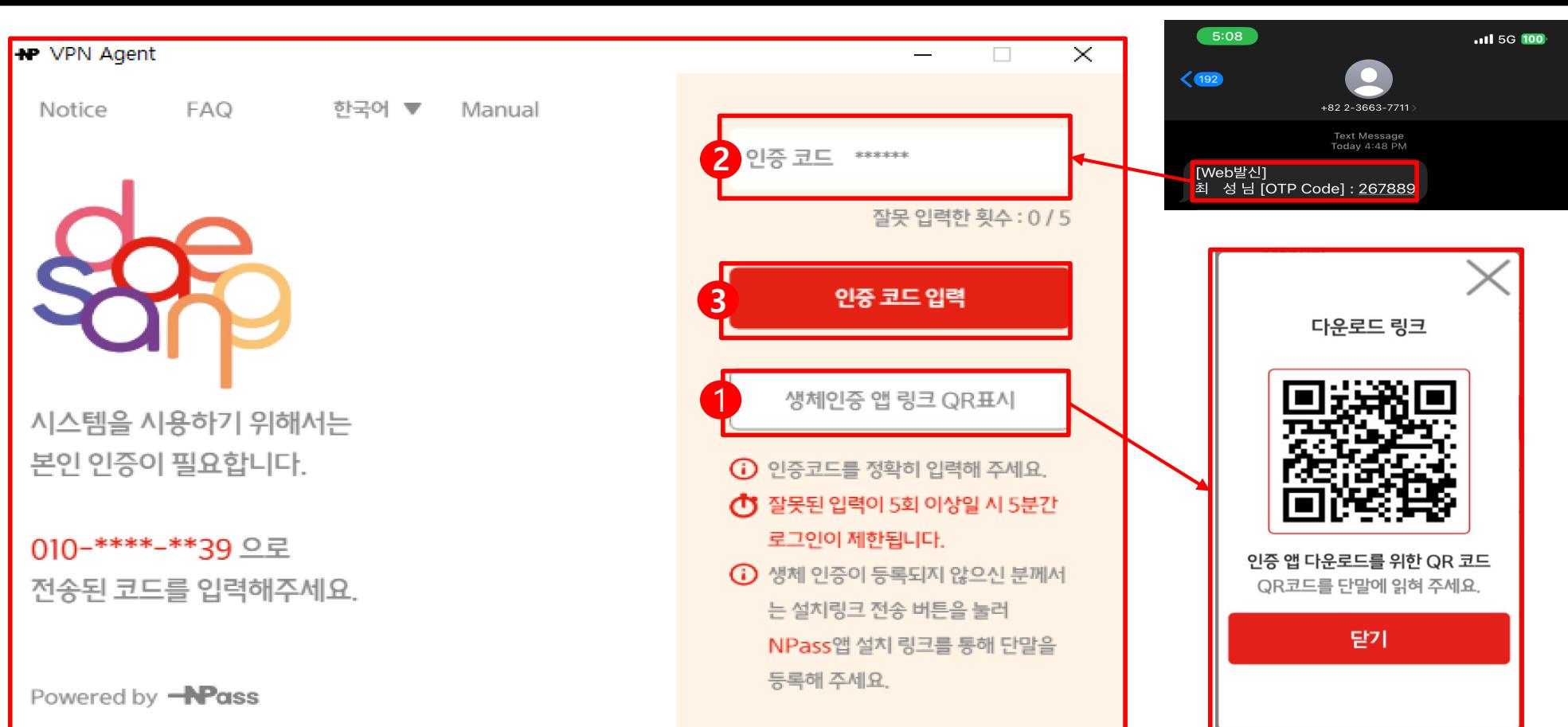


3. Biometric authentication app NPass Installation (Android)

3-4. Biometric authentication app When installing and registering for authentication, the authentication method will be replaced by cell ph1 biometric authentication instead of OTP authentication from the next login .

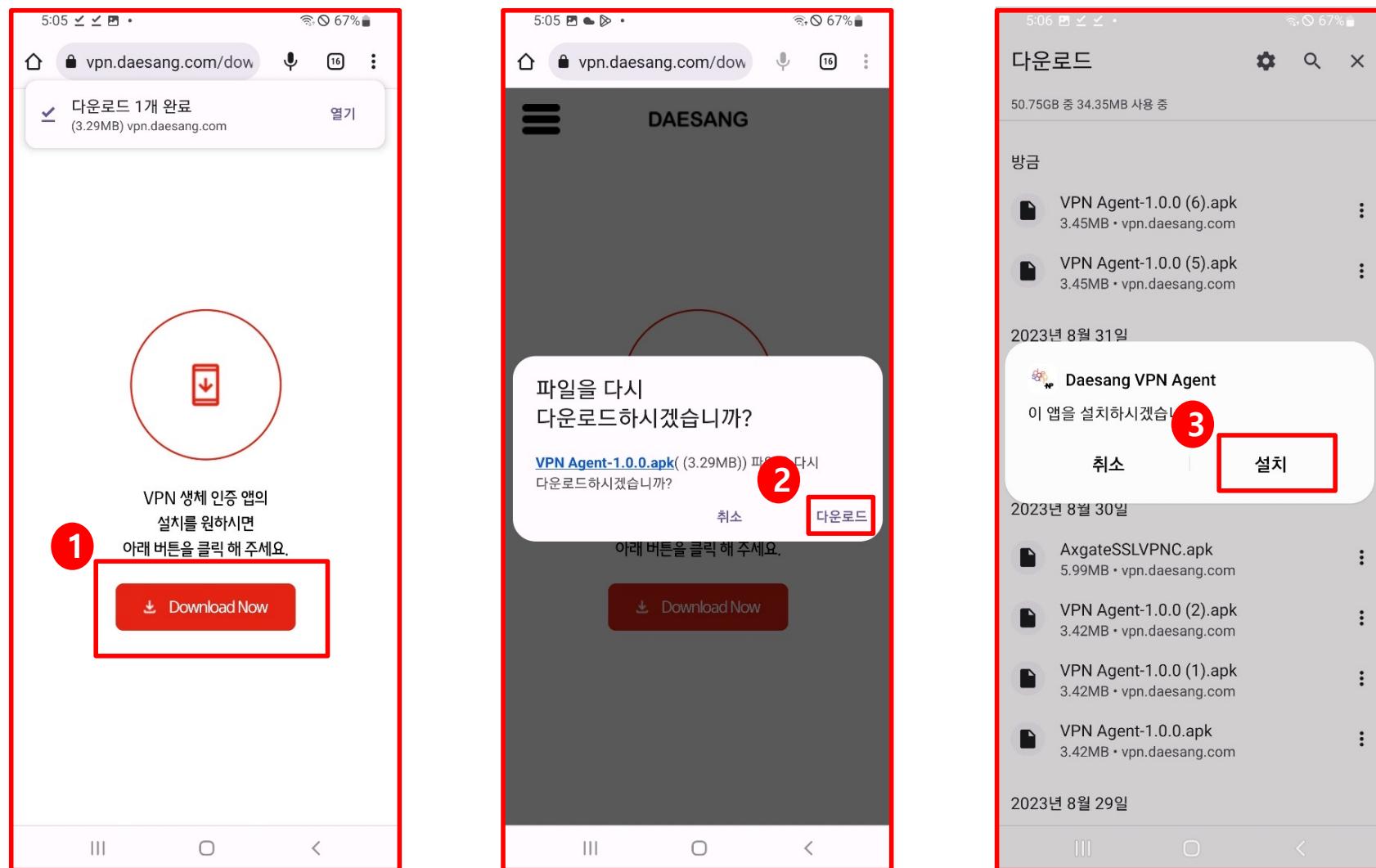
(Recommended) → * NPass When installing : Click on the QR mark for the biometric authentication app link → Scan the QR code with your cell ph1 and enter NPass install app

* NPass When proceeding without installation : Check the OTP code sent as a text message to your mobile ph1 and enter it in the authentication code field → Click the “ ”



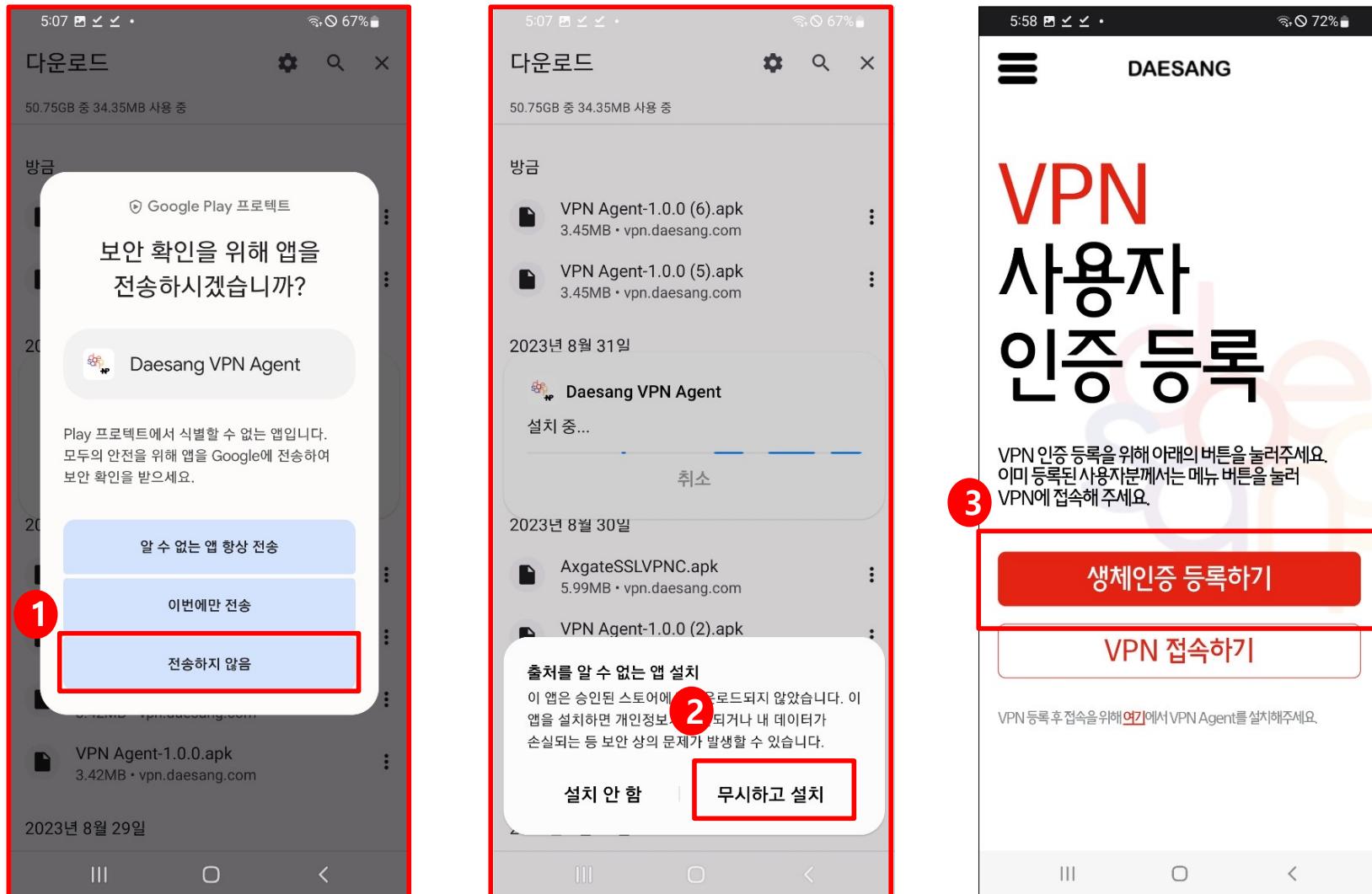
3. Biometric authentication app NPass Installation (Android)

3-5. Click 'Download Now' on the webpage → Download the installation file → Perform installation after download is complete



3. Biometric authentication app NPass Installation (Android)

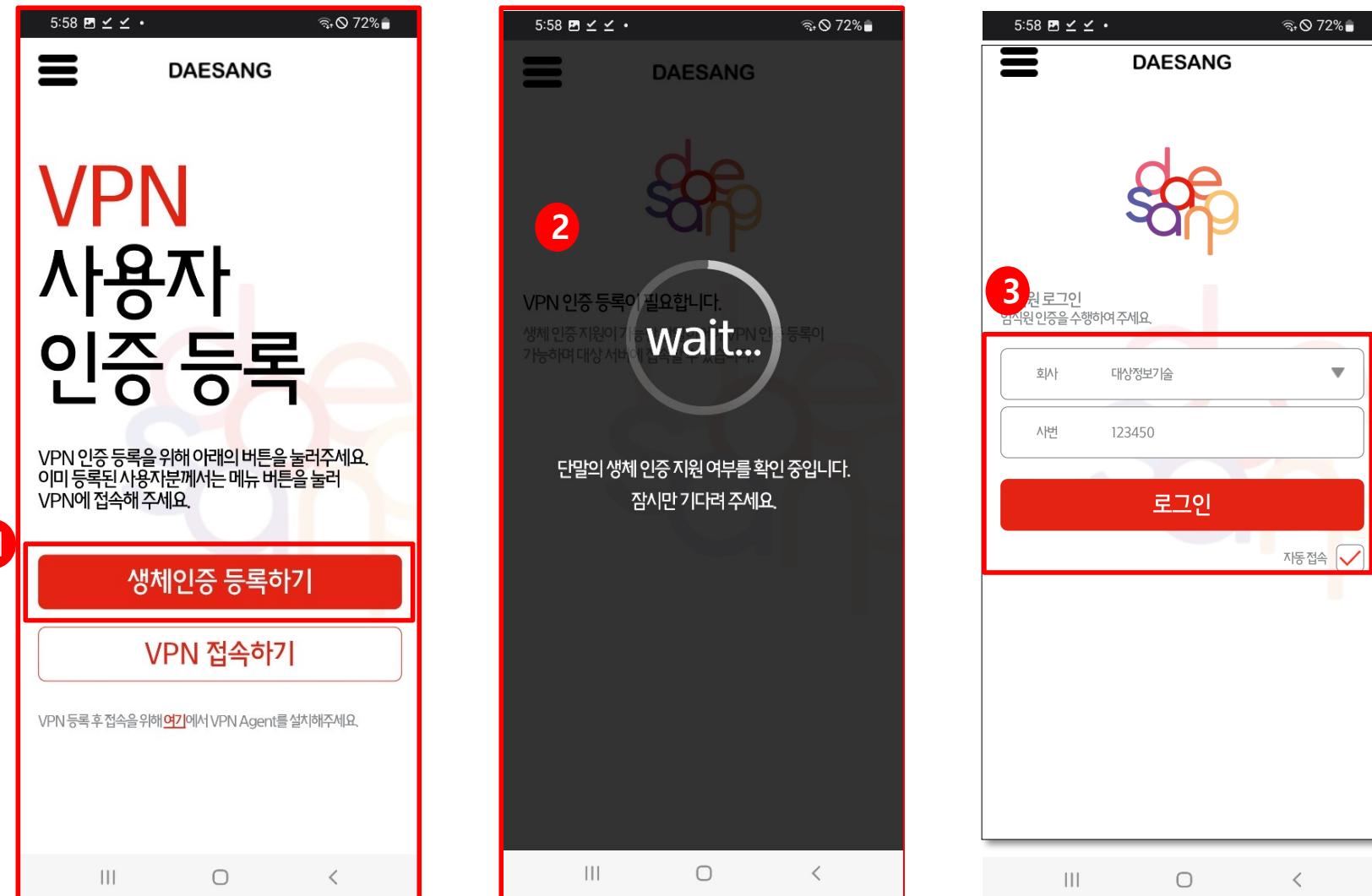
3-6. Click 'Do not send' in the security confirmation window → Click 'Ignore and Install' → Click





3. Biometric authentication app NPass Installation (Android)

3-7. Check whether device is supported → Log in after entering the group company and employee number

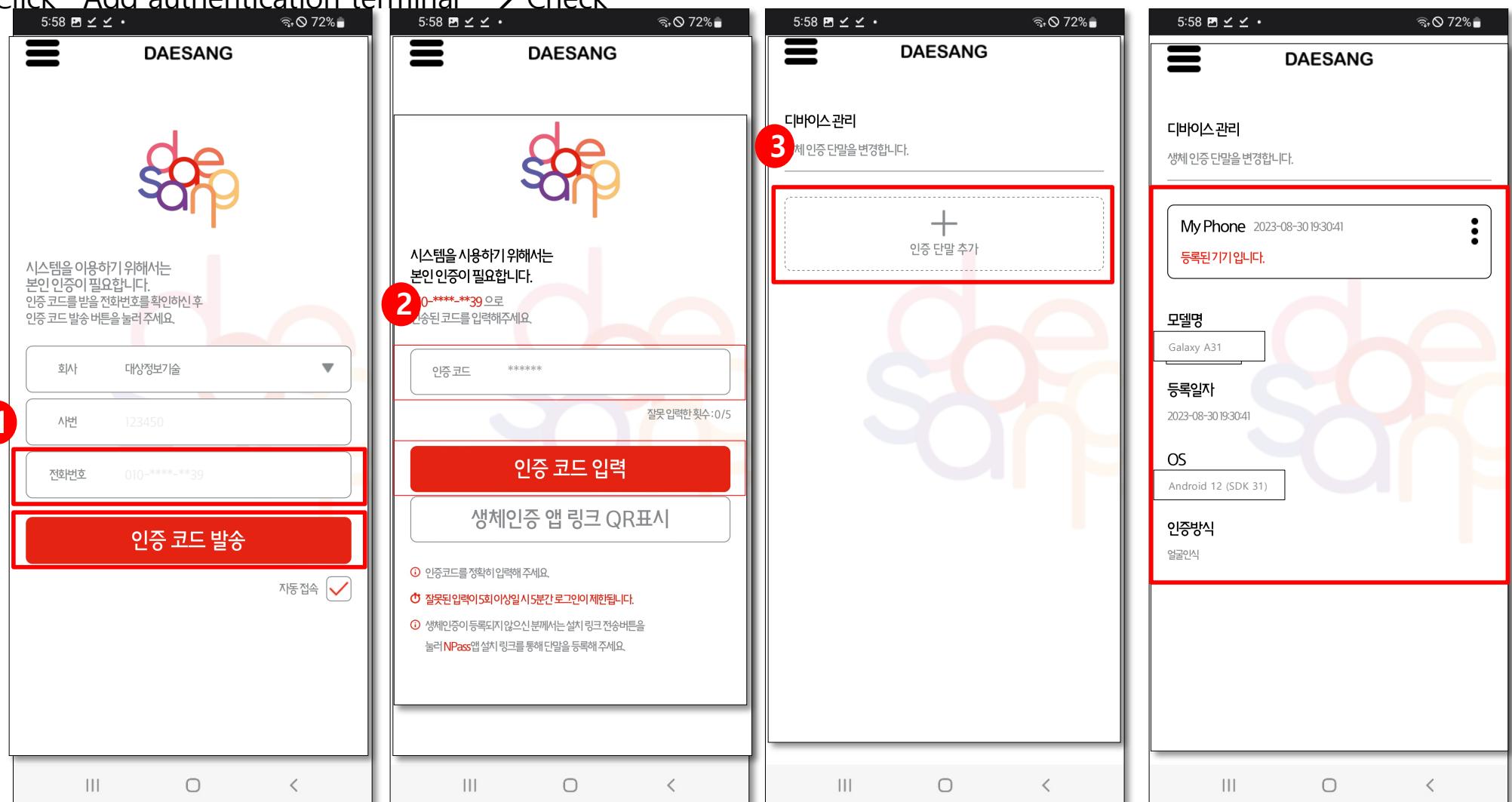




3. Biometric authentication app NPass Installation (Android)

3-8. Log in after entering the group company and employee number (check automatic connection) → After checking the mobile ph1 number, click ' Send authentication code ' → After checking the OTP code, enter the authentication code →

~~Click 'Add authentication terminal' → Check~~

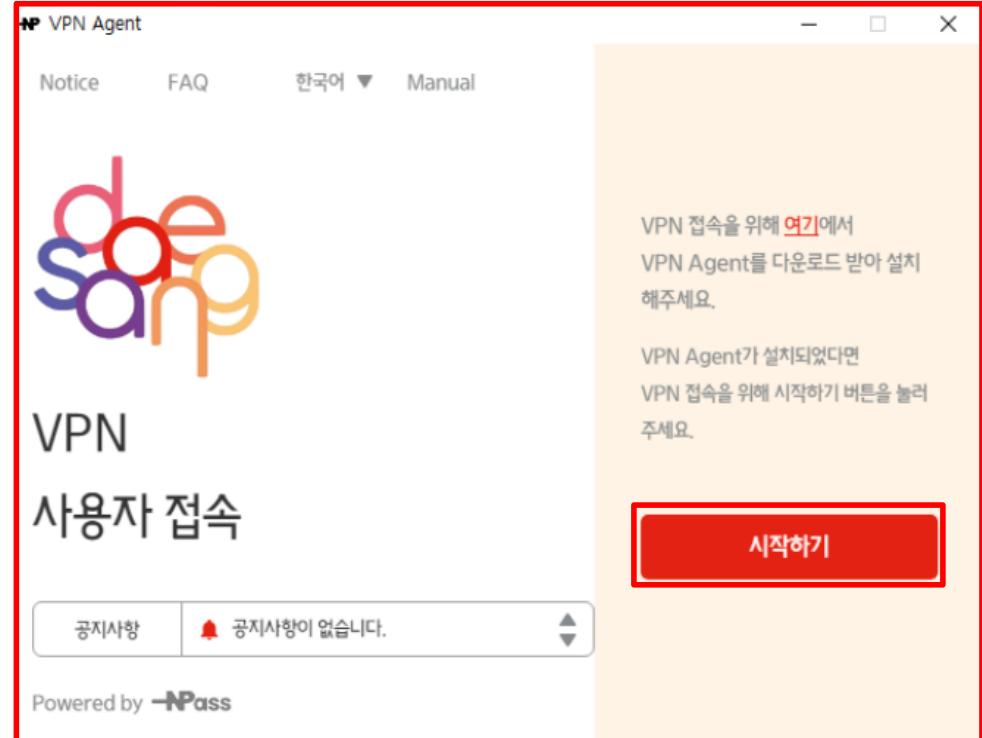




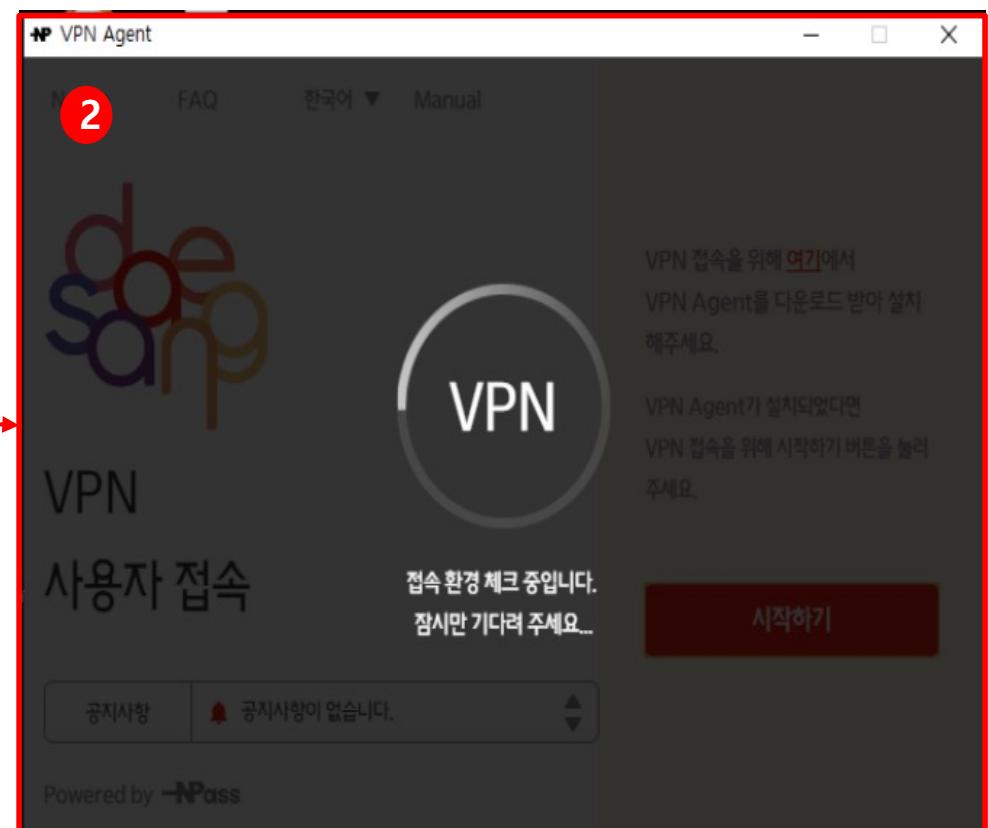
4. Biometric authentication app NPass Installation (iPh1)

4-1. Run VPN Agent and click Start

1



2



4. Biometric authentication app NPass Installation (iPh1)

4-2. After entering the company , employee number, and password, click the Login button . * For certain group companies, a field to enter the password may appear .

VPN Agent

Notice FAQ 한국어 ▾ Manual

VPN 사용 등록을 위해
임직원 인증을 수행하여 주십시오.

Powered by **NPass**

1 회사 대상정보기술
사번 123450

로그인

자동접속 ⓘ
공용 PC에서는 정보 보안을 위해 체크를 권장하지 않습니다.

2 Group company screen with password

회사 대상정보기술
사번 023456
비밀번호

잘못 입력한 횟수 : 0/5

로그인



4. Biometric authentication app NPass Installation (iPh1)

4-3. After confirming that your mobile ph1 number is correct, click Send Verification Code

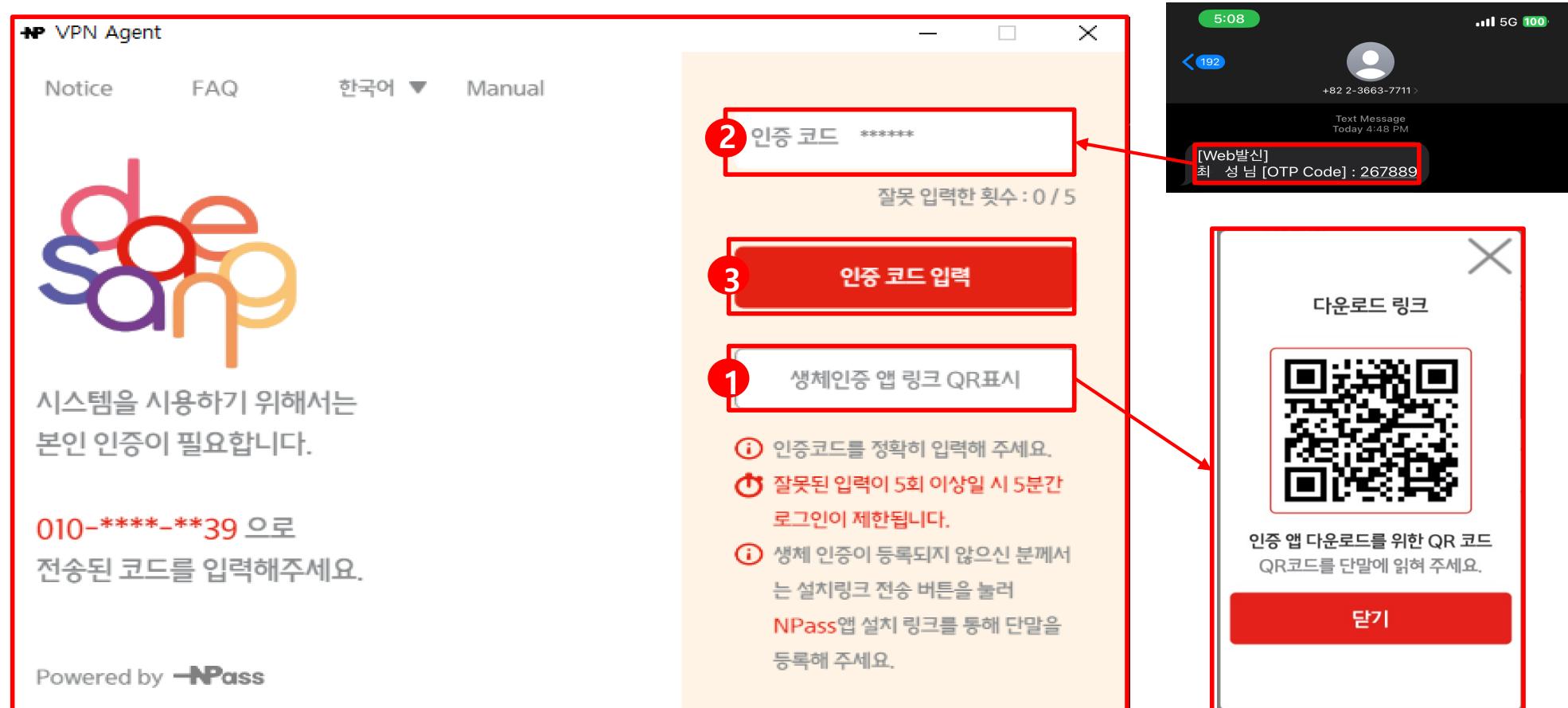


4. Biometric authentication app NPass Installation (iPh1)

4-4. Biometric authentication app When installing and registering for authentication, the authentication method will be replaced by cell ph1 biometric authentication instead of OTP authentication from the next login .

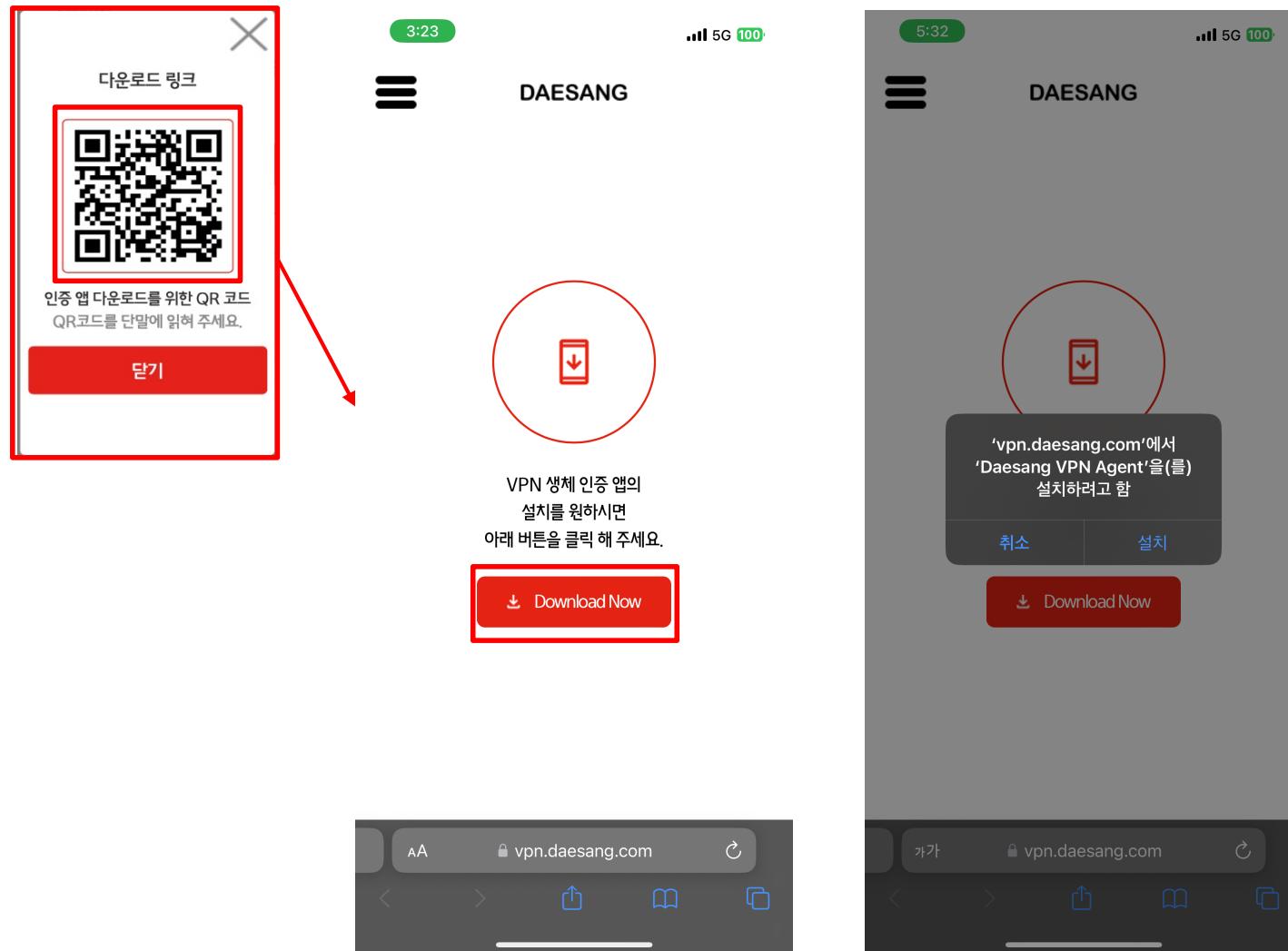
(Recommended) → * NPass When installing : Click on the QR mark for the biometric authentication app link → Scan the QR code with your cell ph1 and enter NPass install app

* NPass When proceeding without installation : Check the OTP Code sent as a text message to your mobile ph1 and enter it in the authentication code field → Click the " Enter authentication code " button → Page ?? move to



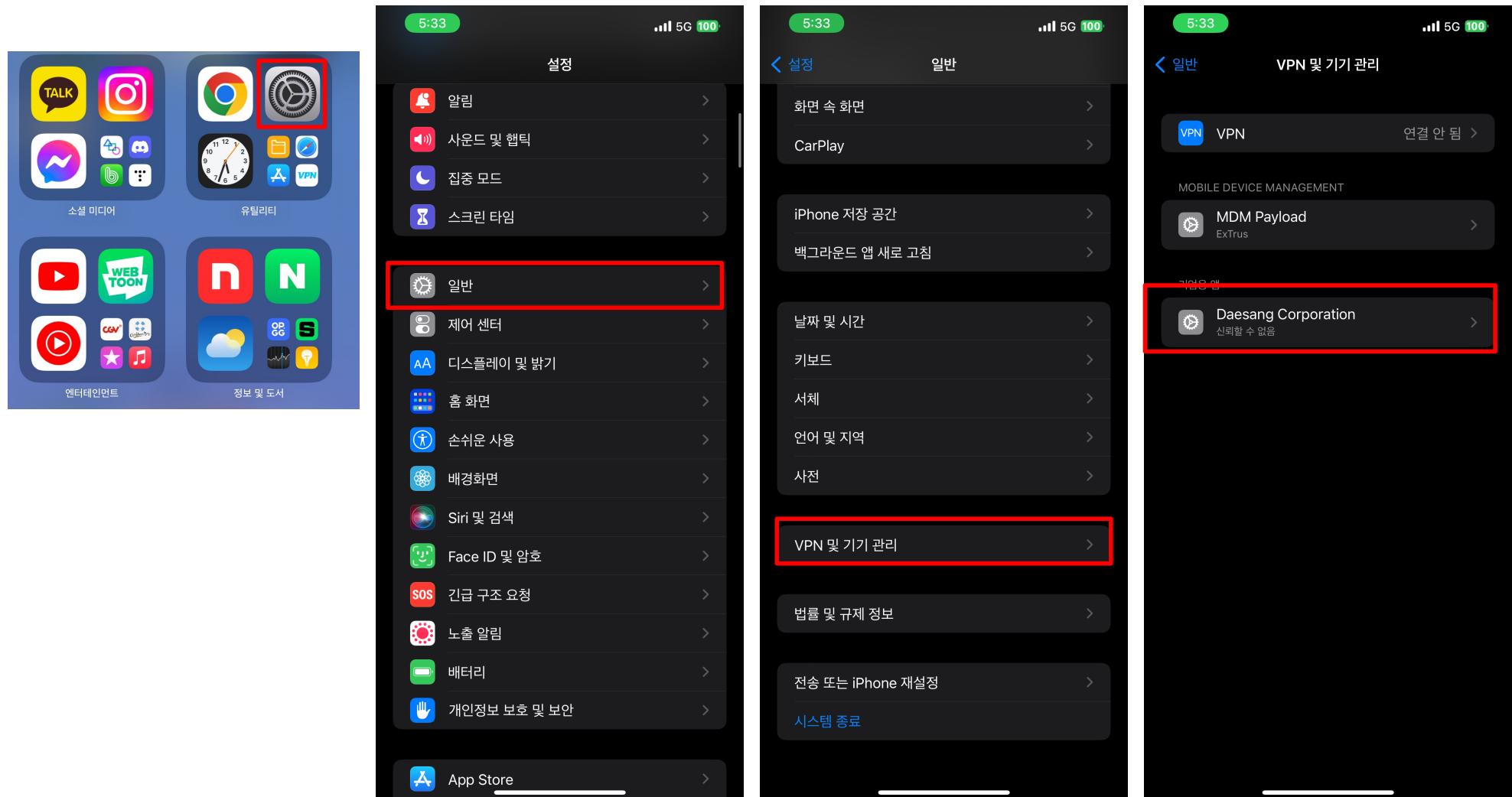
4. Biometric authentication app NPass Installation (iPhone)

4-5. Scan QR code with your phone □ Click "Download NOW button " → Proceed with installation



4. Biometric authentication app NPass Installation (iPhone)

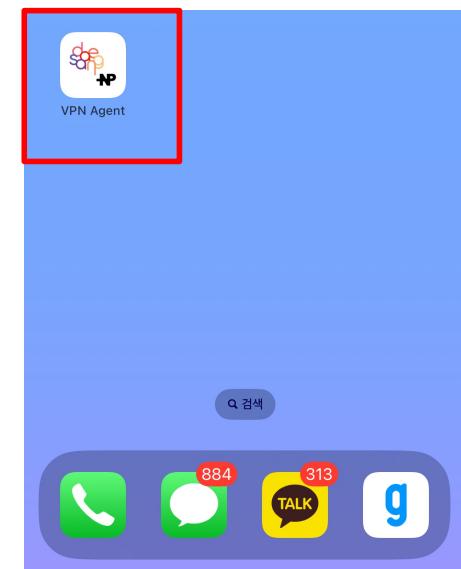
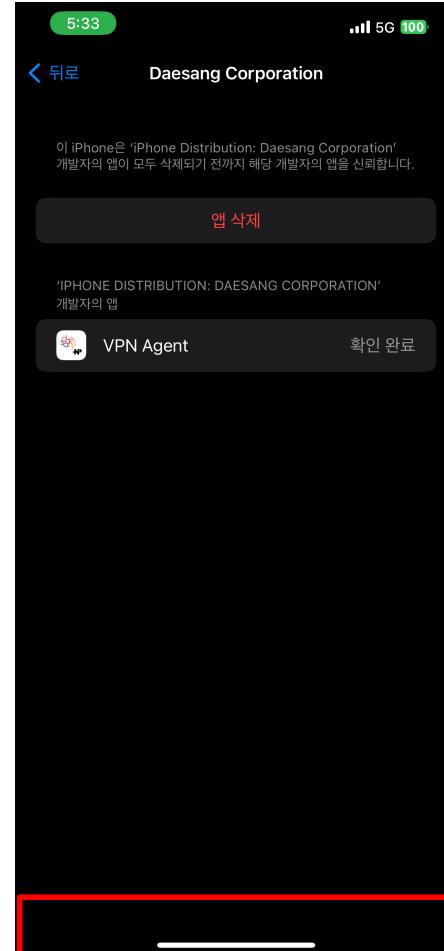
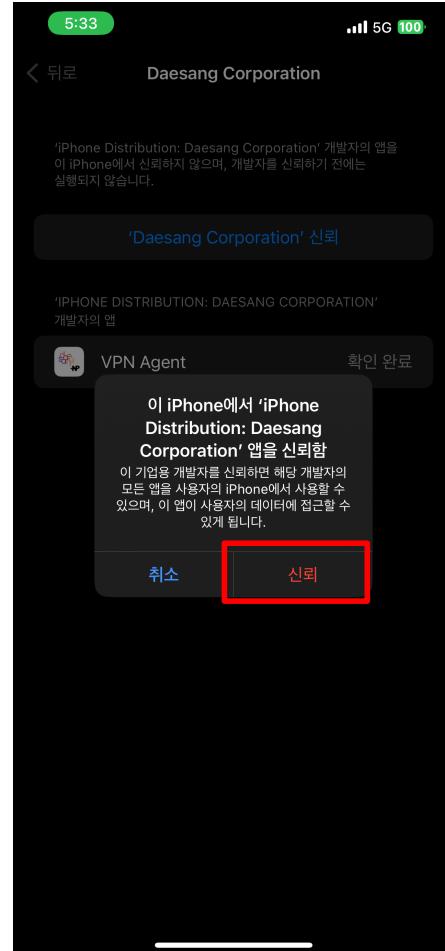
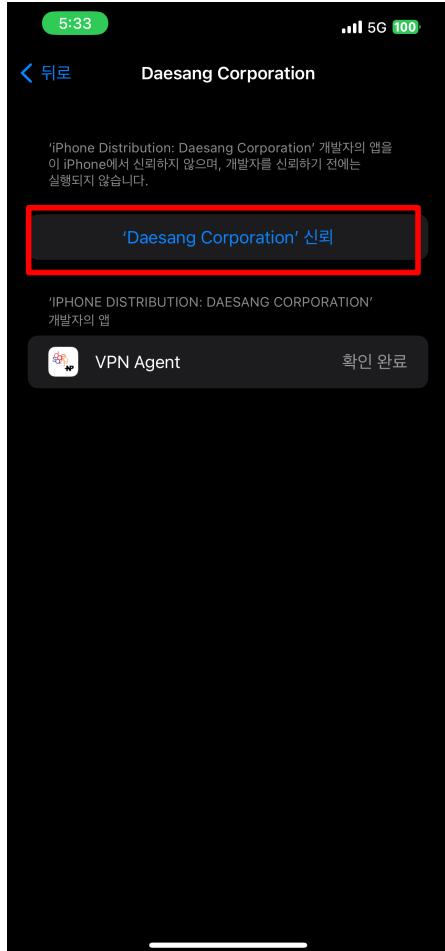
4-6. Settings → General → VPN and device management → Daesang Corporation





4. Biometric authentication app NPass Installation (iPhone)

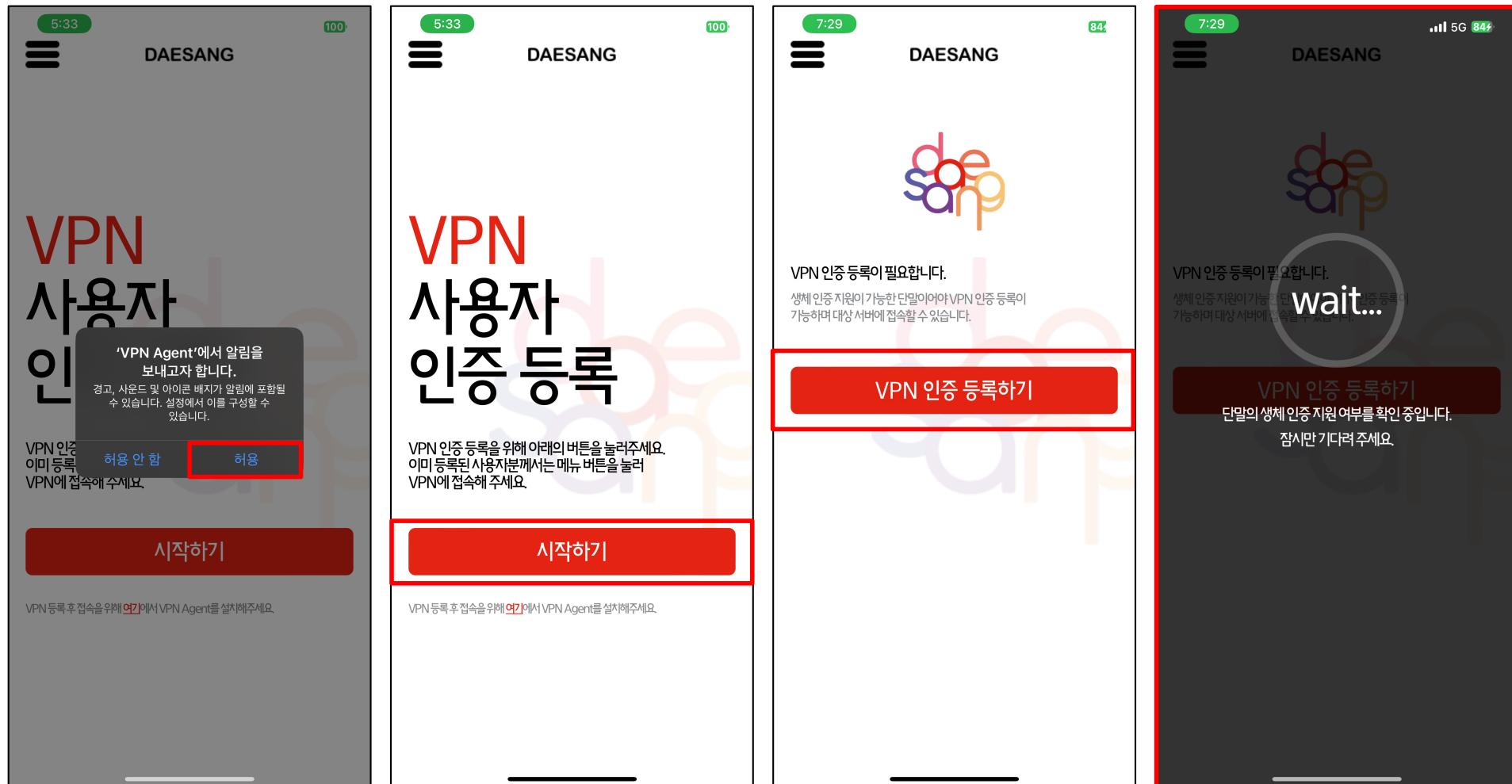
4-7. Click the 'Daesang Corporation' trust button → Trust → Then return to home and run





4. Biometric authentication app NPass Installation (iPhone)

4-8. Allow 'VPN Agent' notifications (Must be allowed for authentication .) → Get started → Register VPN authentication

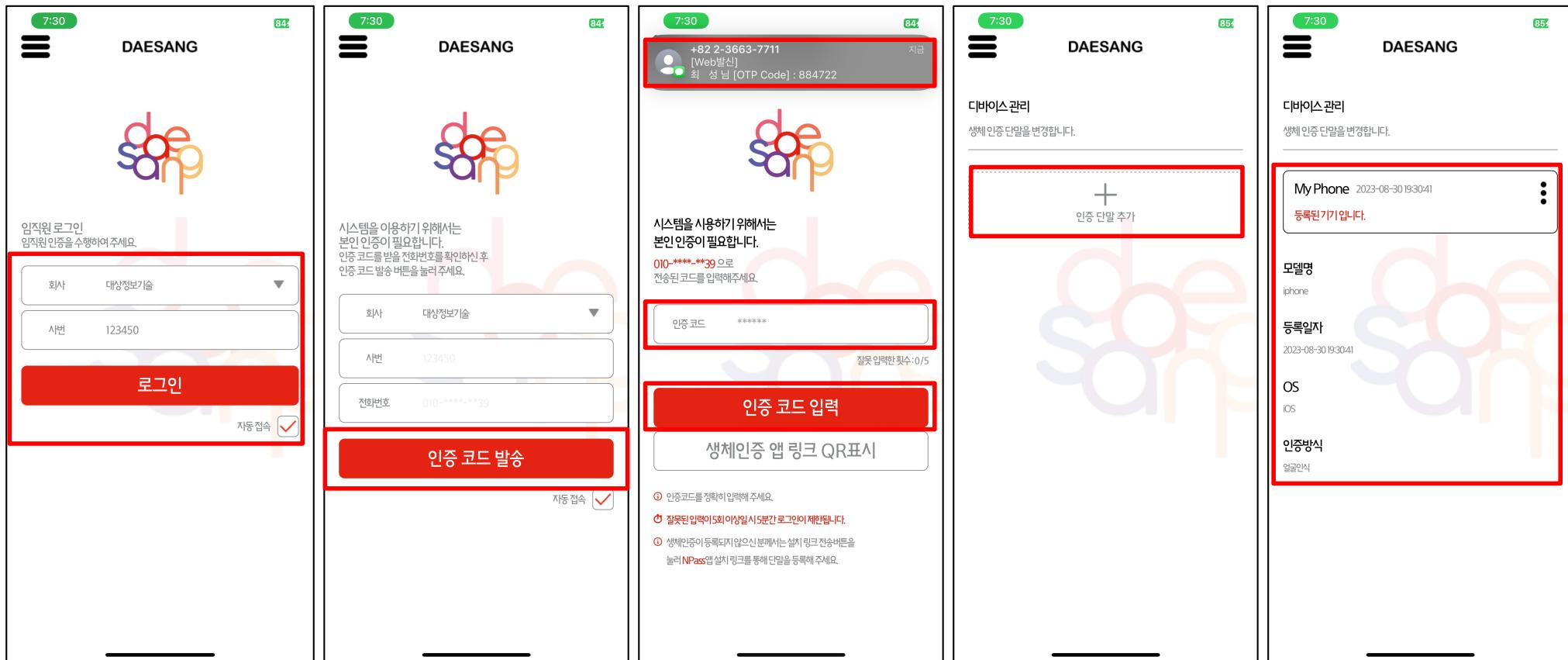




4. Biometric authentication app NPass Installation (iPhone)

4-9. Log in after entering the group company and employee number (check automatic connection) → After checking the mobile phone number, click ' Send authentication code ' → After checking the OTP code, enter the authentication code →

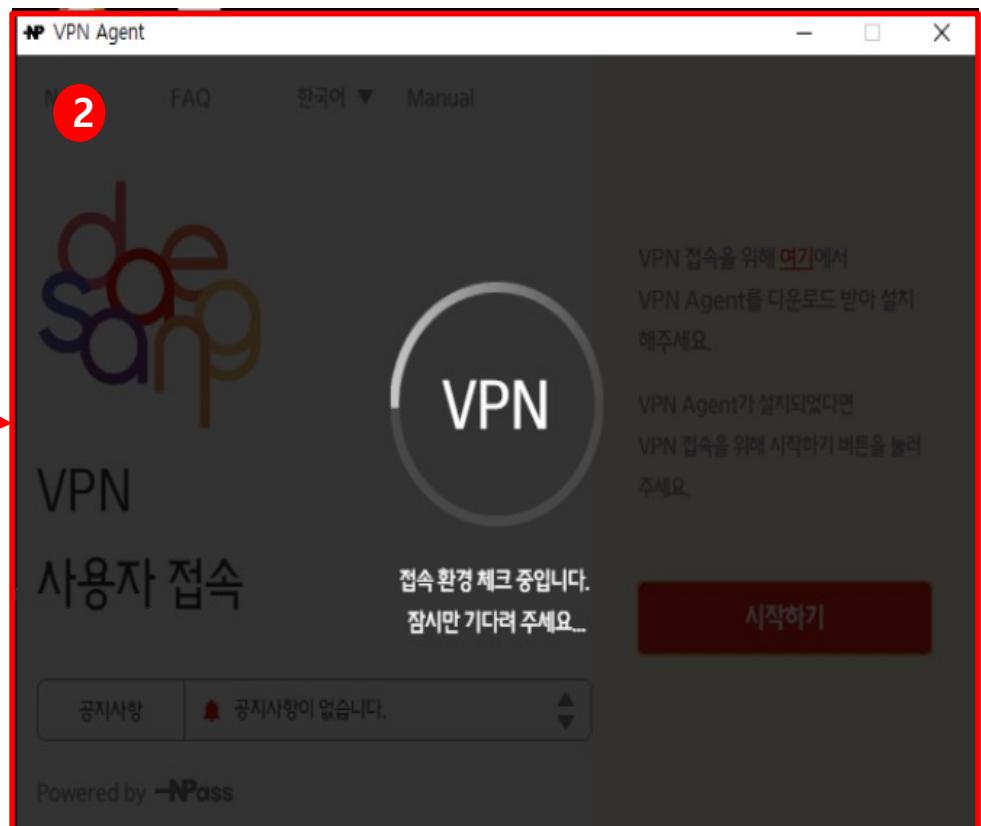
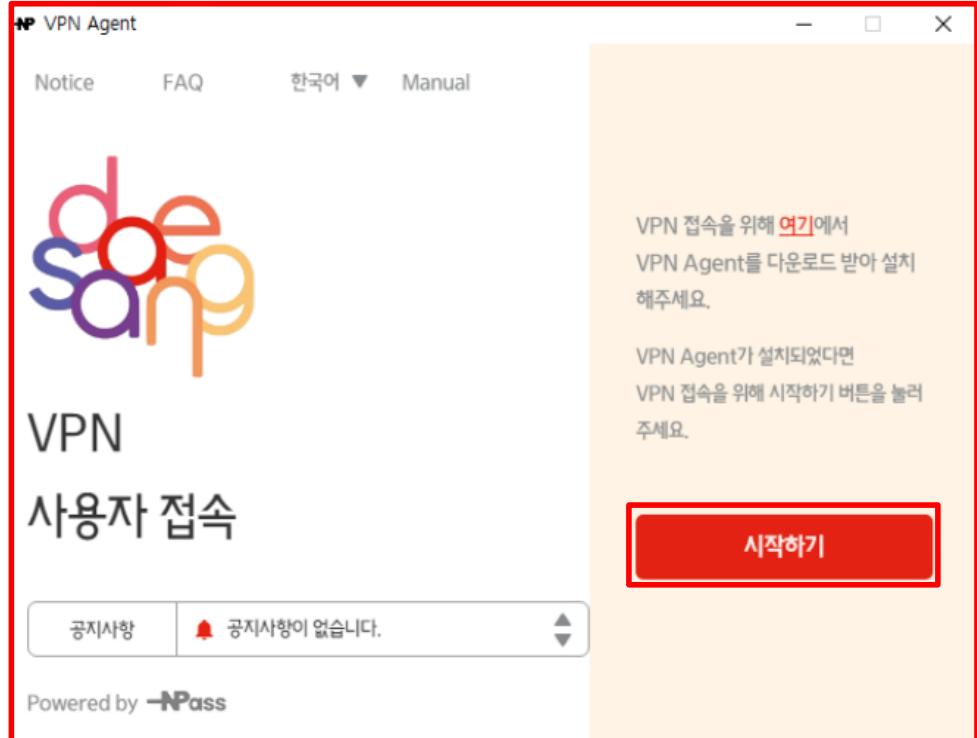
~~Click ' Add authentication terminal ' → Check~~



5. VPN connection (using Agent)

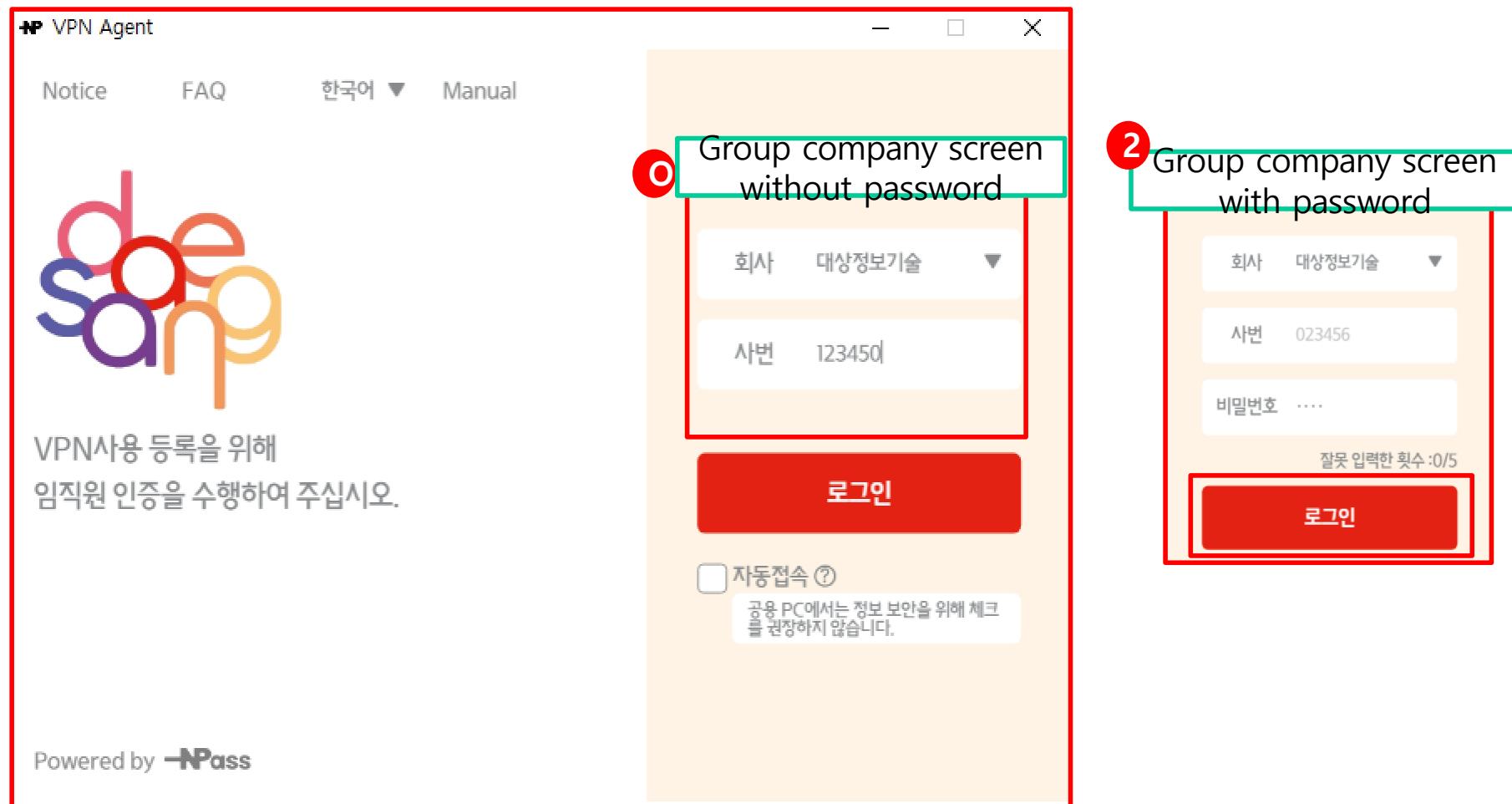
5-1. Run VPN Agent and click Start

0



5. VPN connection (using Agent)

5-2. After entering the company , employee number, and password, click the Login button . * For certain group companies, a field to enter the password may appear .





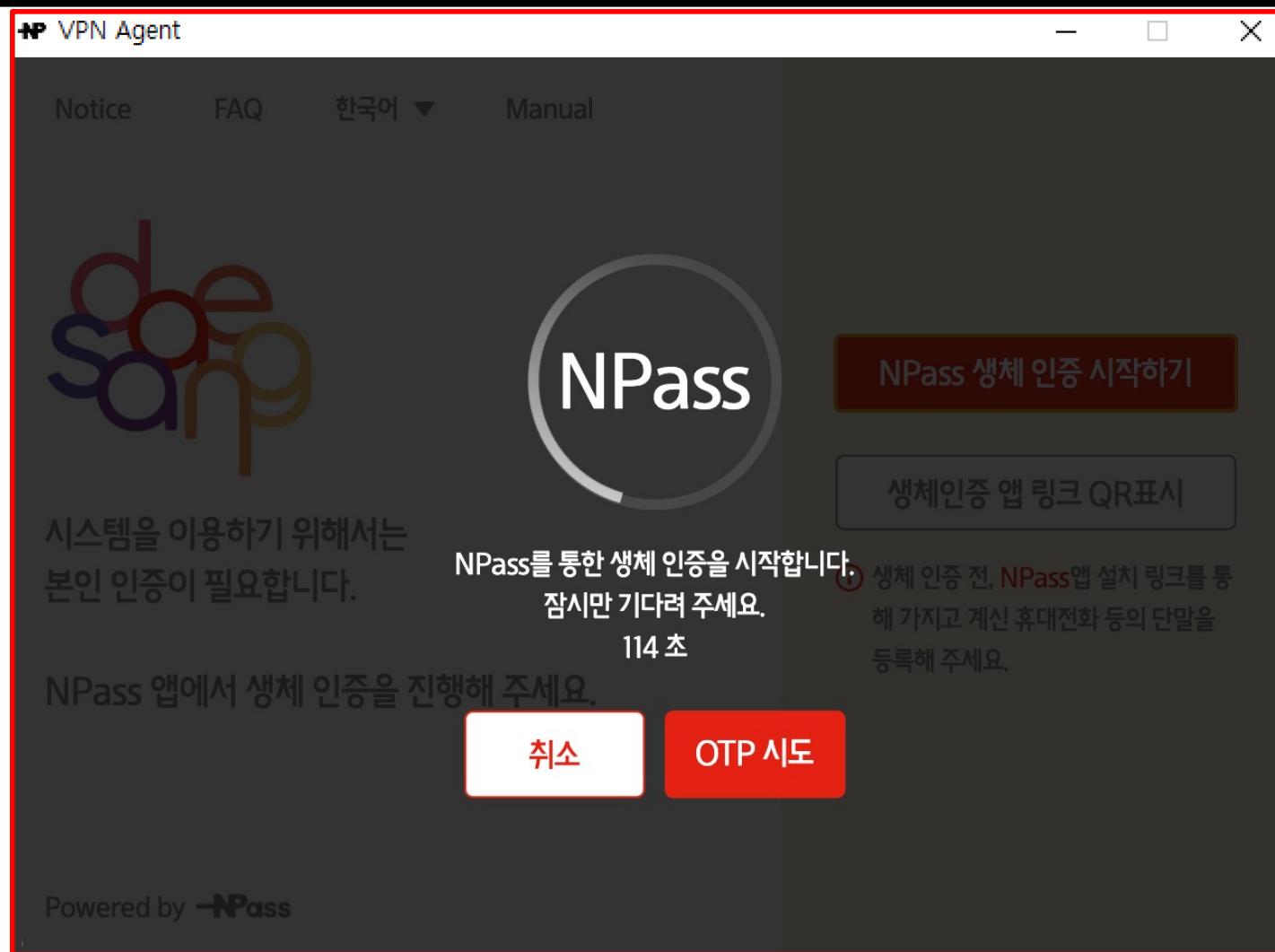
5. VPN connection (using Agent)

5-3. NPass after logging in Click to start biometric authentication

The screenshot shows the deSoap VPN Agent application window. At the top, there is a navigation bar with links for 'Notice', 'FAQ', '한국어' (Korean), and 'Manual'. The main content area features the deSoap logo and Korean text: '시스템을 이용하기 위해서는 본인 인증이 필요합니다.' (For using the system, it is necessary to perform identity verification.) Below this, another message reads: 'NPass 앱에서 생체 인증을 진행해 주세요.' (Please perform biometric authentication via the NPass app.) To the right, there is a large red button labeled 'NPass 생체 인증 시작하기' (Start NPass biometric authentication) and a smaller button labeled '생체인증 앱 링크 QR표시' (Display QR code for biometric authentication app link). A red information icon with the text '① 생체 인증 전, NPass 앱 설치 링크를 통해 가지고 계신 휴대전화 등의 단말을 등록해 주세요.' (Before performing biometric authentication, register your mobile device, etc., using the link to install the NPass app.) is also present.

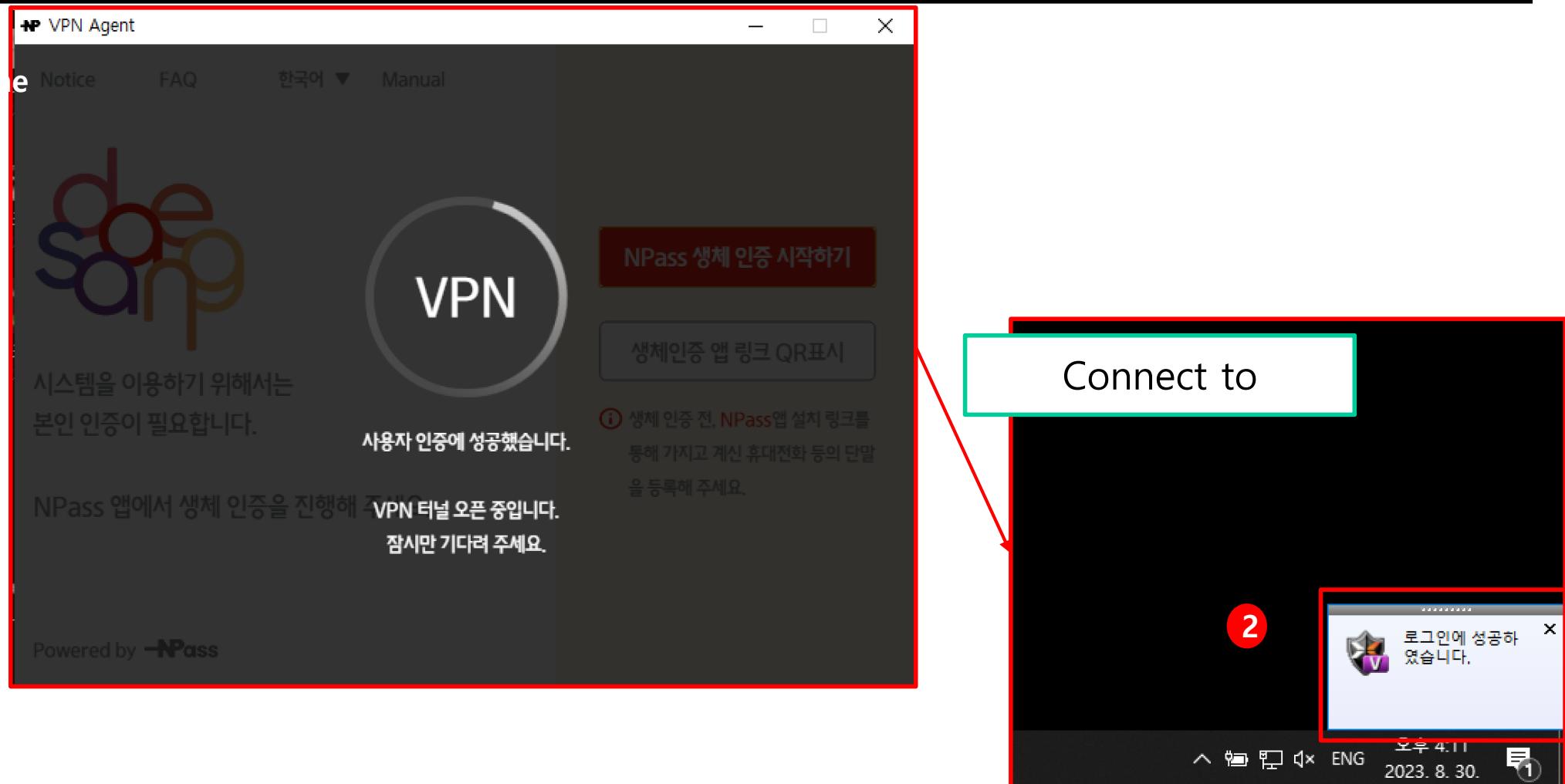
5. VPN connection (using Agent)

5-4. Perform biometric authentication on the registered cell phone (**if there is no response after biometric authentication, press the ' Cancel ' button to retry or log in through OTP attempt**)



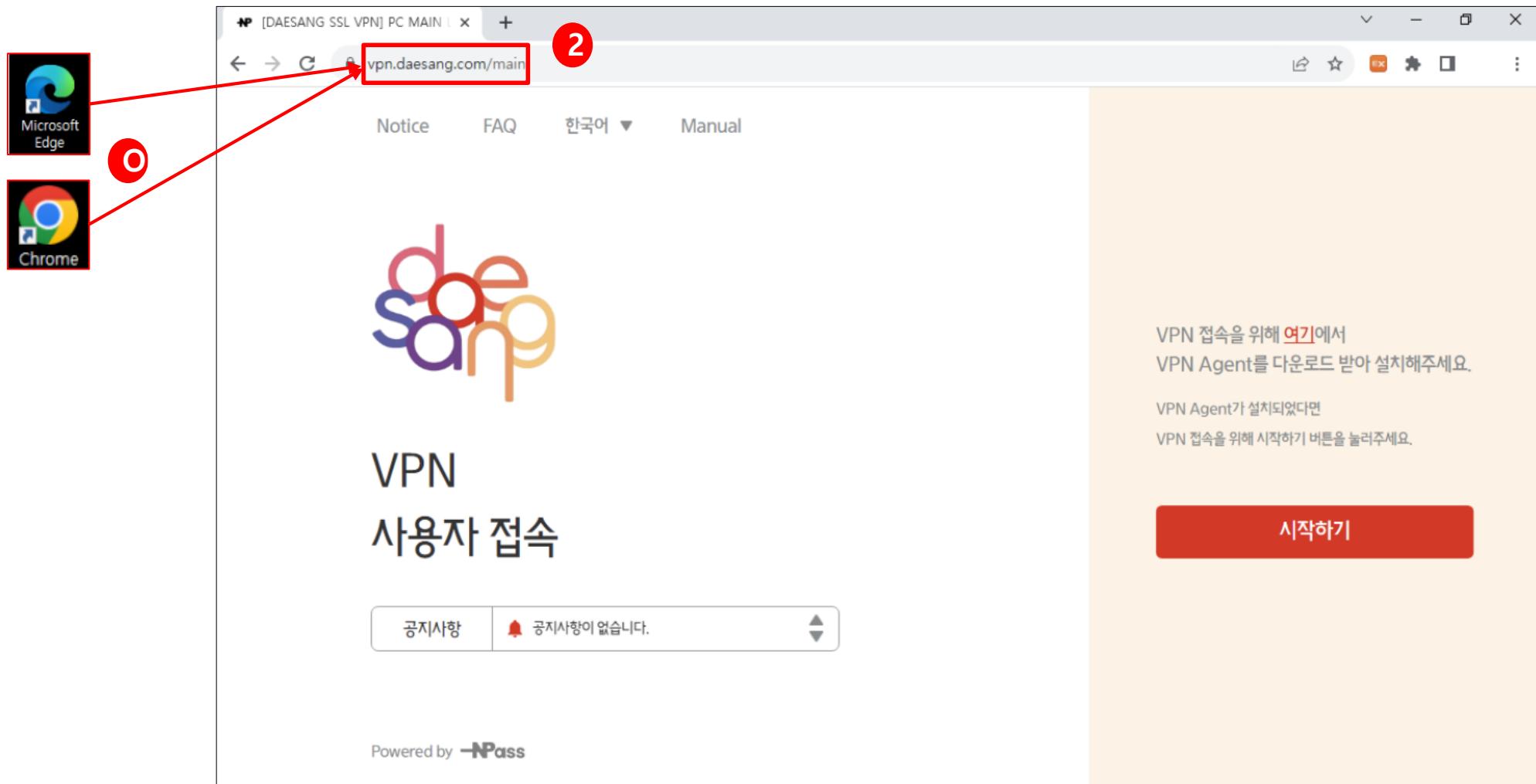
5. VPN connection (using Agent)

5-5. User authentication successful → Check VPN connection pop-



6. VPN connection (using Agent)

6-1. Click on the internet browser → in the address bar `vpn.daesang.com` Connect after entering





6. VPN connection (using Agent)

6-2. After entering
the company , employee number, and password, click the Login button . * For certain group companies, a field
to enter the password may appear .

The screenshot shows a web browser window for the [DAESANG SSL VPN] PC SIGN-II login page. The URL in the address bar is vpn.daesang.com/authenticate/sign-in. The page features the de soap logo at the top left. Below it, there's a message in Korean: "VPN 사용 등록을 위해 임직원 인증을 수행하여 주십시오." (Please perform employee authentication to register for VPN use). At the top right, there are links for Notice, FAQ, 한국어 (Korean), and Manual. The main content area contains a login form. It includes fields for "회사" (Company) set to "대상정보기술" and "사번" (Employee Number) set to "123450". A large red "로그인" (Login) button is prominently displayed below these fields. Below the login button is a checkbox for "자동접속" (Automatic Connection) with a help icon. A note next to the checkbox states: "공용 PC에서는 정보 보안을 위해 체크를 권장하지 않습니다." (It is not recommended to check on a public PC for information security). The bottom left of the page says "Powered by -NPass".



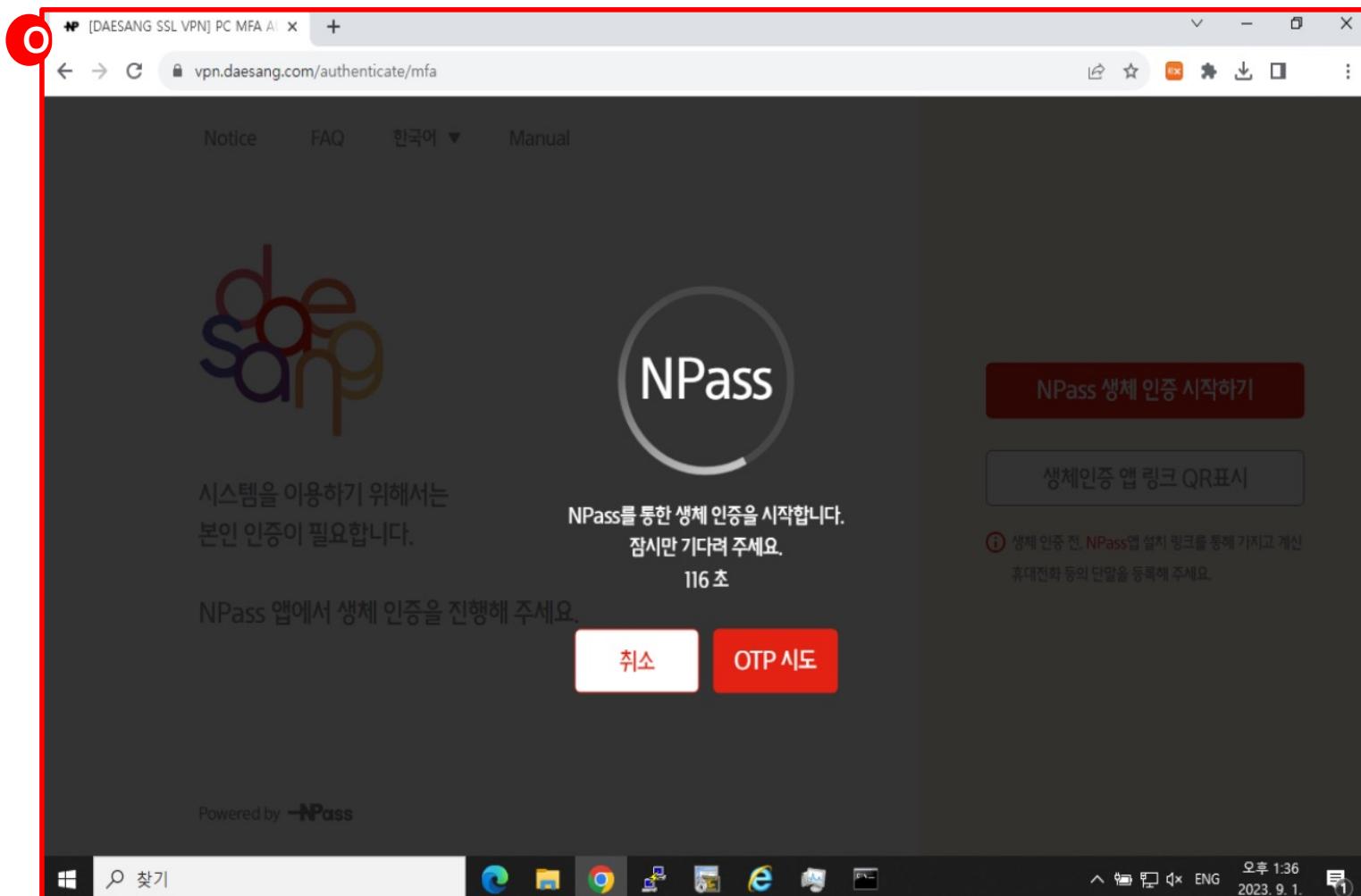
6. VPN connection (using Agent)

6-3. NPass after logging in Click to start biometric authentication

The screenshot shows a web browser window titled "[DAESANG SSL VPN] PC MFA A". The URL in the address bar is "vpn.daesang.com/authenticate/mfa". The page content includes the deSang logo, navigation links for "Notice", "FAQ", "한국어", and "Manual". A message in Korean states: "시스템을 이용하기 위해서는 본인 인증이 필요합니다." (For system use, biometric authentication is required). Below this, another message says: "NPass 앱에서 생체 인증을 진행해 주세요." (Please perform biometric authentication via the NPass app). On the right side, there is a red button labeled "NPass 생체 인증 시작하기" (Start Biometric Authentication) with a QR code icon above it. A note below the button says: "생체 인증 전, NPass 앱 설치 링크를 통해 가지고 계신 휴대전화 등의 단말을 등록해 주세요." (Before performing biometric authentication, register your mobile device such as a smartphone using the link provided in the NPass app). At the bottom left, it says "Powered by NPass".

6. VPN connection (using Agent)

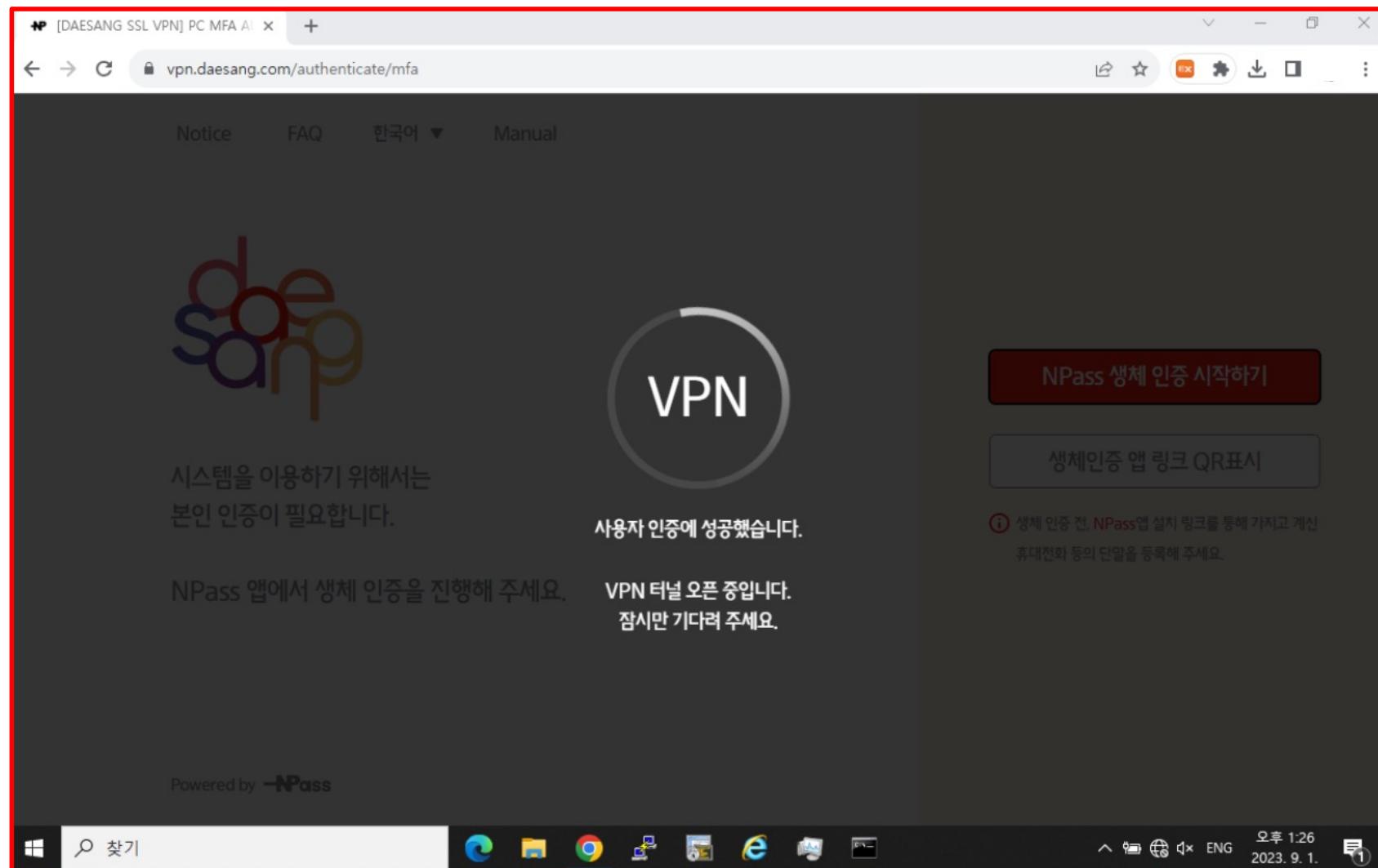
6-4. Proceed with biometric authentication on the registered cell phone (**if an alarm does not arrive) Press the ' Cancel ' button to retry or log in through OTP attempt**)





6. VPN connection (using Agent)

6-5. Wait for tunneling to open after successful authentication (takes approximately 10 seconds)



6. VPN connection (using Agent)

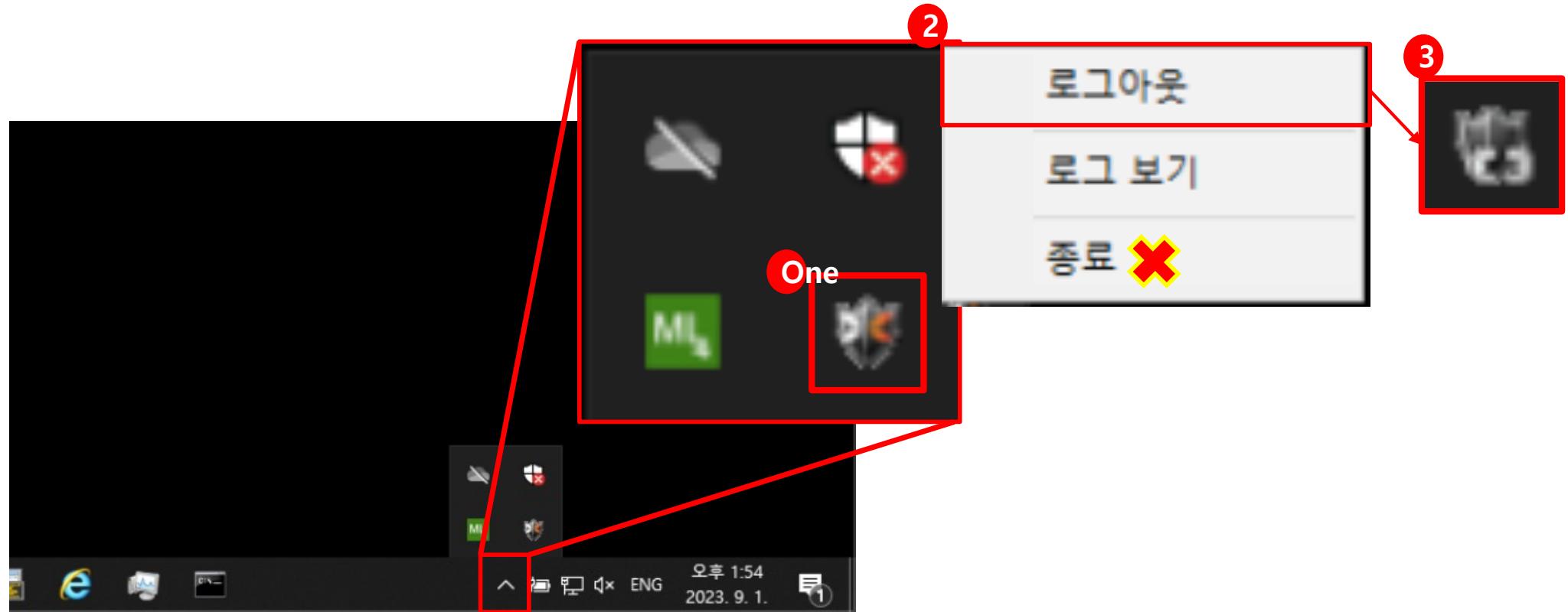
6-6. Check the VPN tunnel open completion page → Check the VPN connection pop-up at the bottom right → Open the DSW page

The screenshot shows a web browser window with a red border. The title bar reads "[DAESANG SSL VPN] PC VPN". The address bar shows "vpn.daesang.com/vpn/open-success". The page content includes a large red checkmark icon and Korean text: "VPN 터널 오픈이 완료 되었습니다." (The VPN tunnel has been successfully established) and "브라우저에서 필요한 사내 서버를 접속하여 주시기 바랍니다." (Please connect to the internal server required by the browser). A red button at the bottom says "처음 화면으로 돌아가기" (Return to the home screen). At the bottom of the browser window, it says "Powered by -NPass". Below the browser is a Windows taskbar with icons for Start, Search, and various applications. A system tray icon for a VPN application is visible, showing a shield and the text "로그인에 성공하였습니다." (Login was successful).

7. VPN logout

7-1. Bottom right tray → Right click on VPN client → Click 'Logout' to log out → When the icon color changes to black and white, normal logout is completed.

* Do not press the exit button .





Target group SSL VPN Enhancement Project

SSL VPN User Manual (MAC OSX)

23.09.04

caution

* This user manual is for VPN Agent and mobile biometric authentication application. It is written based on use.

**Install VPN Agent (PC) → Mobile biometric authentication application Install
→ Please use it after installing**

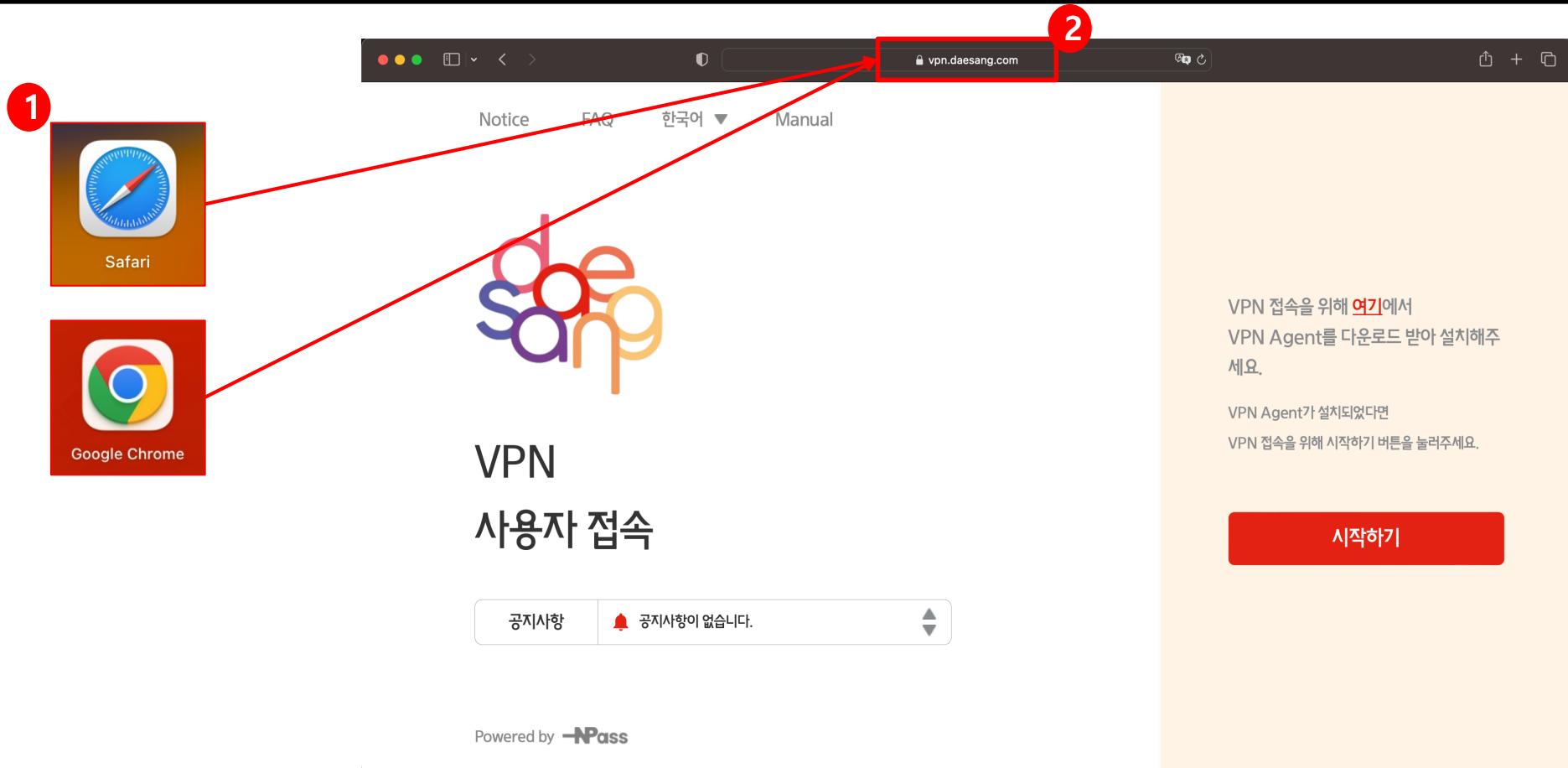
Please note that this is recommended , and other usage instructions are provided after the recommendation .

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- 5. VPN Client(for MACOS) Install**
- 6. VPN connection (using Agent)**
- 7. VPN connection (without agent)**
- 8. VPN logout**

1. VPN homepage connect

1-1. Click on the internet browser → in the address bar vpn.daesang.com Connect after entering





2. Download and install VPN program

2-1. Click the ' here ' button on the right to download

The screenshot shows a web browser window with the URL vpn.daesang.com. The page content is as follows:

Notice FAQ 한국어 ▾ Manual

VPN
사용자 접속

공지사항 여기 공지사항이 없습니다.

1
VPN 접속을 위해 여기에서
VPN Agent를 다운로드 받아 설치해주세요.
VPN Agent가 설치되었다면
VPN 접속을 위해 시작하기 버튼을 눌러주세요.

시작하기

Powered by



2. Download and install VPN program

2-2. After checking the download in the upper right corner, click the installation file to install

The screenshot shows a web browser window for vpn.daesang.com. At the top, there are navigation icons (red, yellow, green dots), a search bar, and a user icon. Below the address bar, there are links for Notice, FAQ, language selection (한국어), and Manual. A download notification is displayed in the top right corner, circled in red with the number '1'. The notification shows a progress bar for 'VPN Agent-1.0.0.dmg' at 8.7MB/89.8MB (1.7MB/초). It includes a '다운로드' (Download) button and a '지우기' (Delete) button. The main content area contains the daesang logo, the text 'VPN' and '사용자 접속', and a message in Korean: 'VPN 접속을 위해 [여기](#)에서 VPN Agent를 다운로드 받아 설치해주세요.' Below this is another message: 'VPN Agent가 설치되었다면 VPN 접속을 위해 시작하기 버튼을 눌러주세요.' A large red button labeled '시작하기' (Start) is visible. At the bottom left, there is a '공지사항' (Notice) section with a bell icon and the message '공지사항이 없습니다.' A small 'Powered by NPass' logo is at the very bottom.

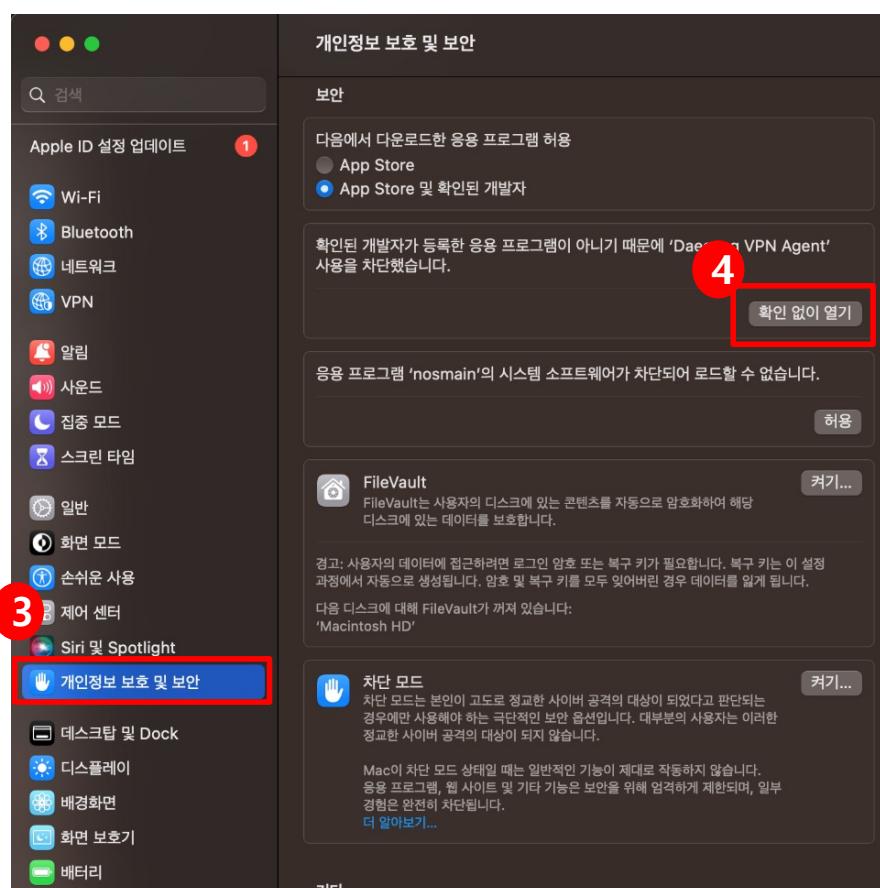
2. Download and install VPN program

2-3. Proceed with VPN Agent installation → Install Daesang VPN Agent → Application → Run



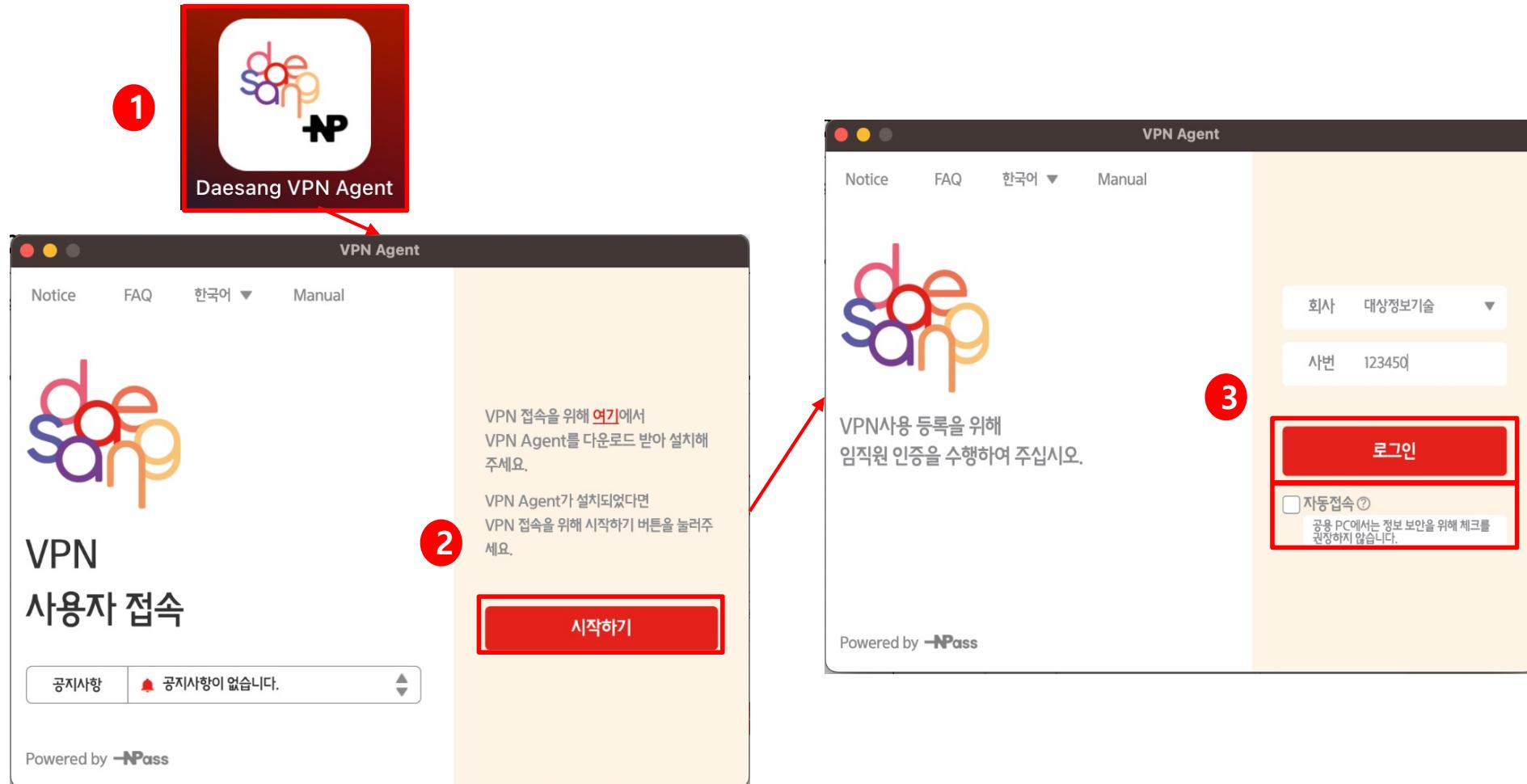
2. Download and install VPN program

2-4. system settings → Personal information protection and security → Open without confirmation → Enter fingerprint or password → Click the open button



3. Biometric authentication app NPass Installation (Android)

3-1. Run VPN Agent and click Start → Log in with group company and employee number



3. Biometric authentication app NPass Installation (Android)

3-2. After confirming that your mobile ph1 number is correct, click Send Verification Code





3. Biometric authentication app NPass Installation (Android)

3-3. Biometric authentication app When installing and registering for authentication, the authentication method will be replaced by cell ph1 biometric authentication instead of OTP authentication from the next login .

(Recommended) → * NPass When installing : Click on the QR mark for the biometric authentication app link → Scan the QR code with your cell ph1 and enter NPass install app

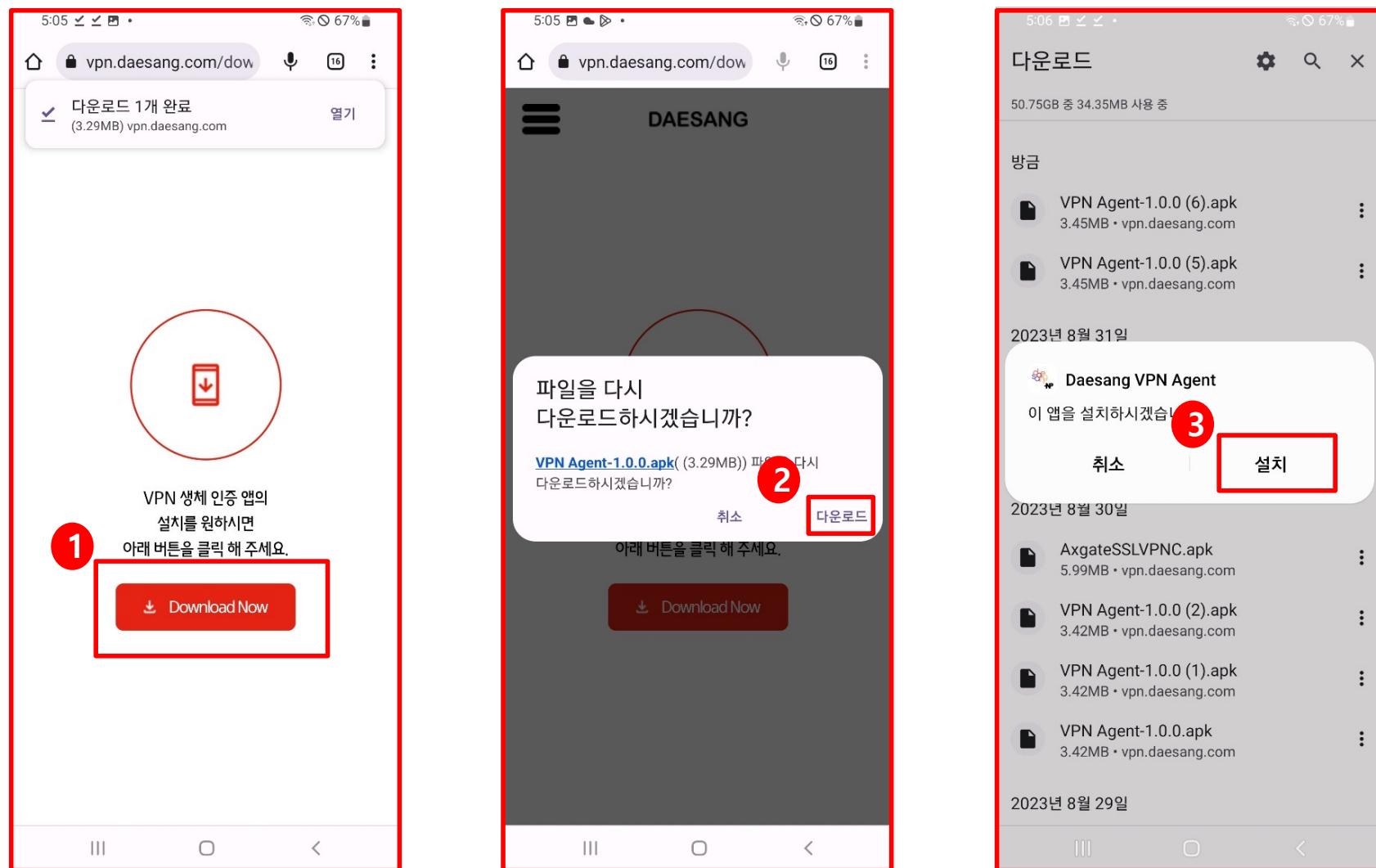
* NPass When proceeding without installation : Check the OTP code sent as a text message to your mobile ph1 and enter it in the authentication code field → Click the " Enter authentication code " button to connect to

The screenshot illustrates the two methods for NPass installation:

- Method 1 (Recommended):** The user scans a QR code displayed on the VPN Agent app's "QR Link" screen to download the NPass app directly.
- Method 2:** The user receives an OTP code via text message (e.g., "+82 2-3663-7711") and enters it into the "Enter authentication code" field on the VPN Agent app's "OTP Input" screen.

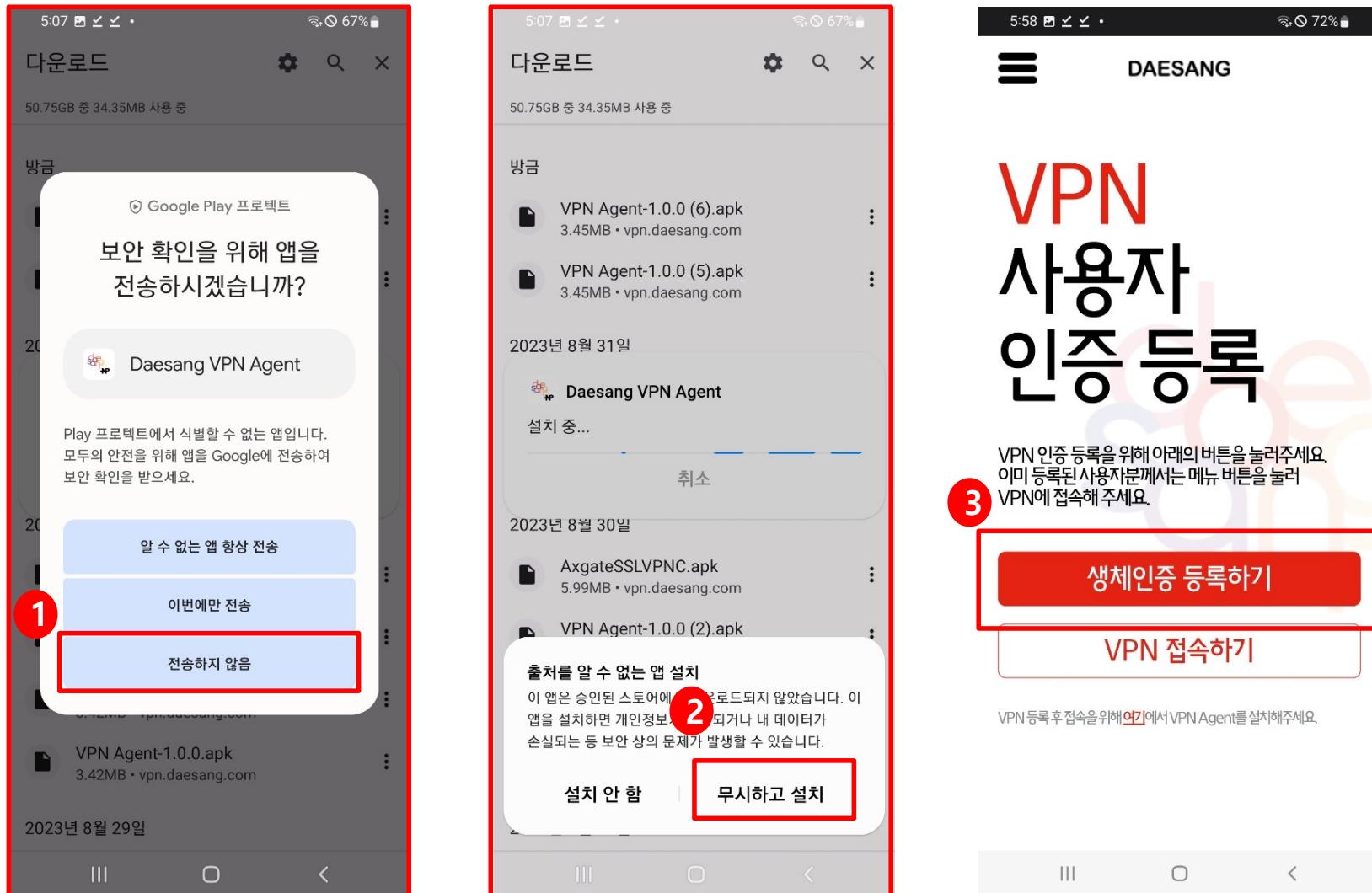
3. Biometric authentication app NPass Installation (Android)

3-4. Click 'Download Now' on the webpage → Download the installation file → Perform installation after download is complete



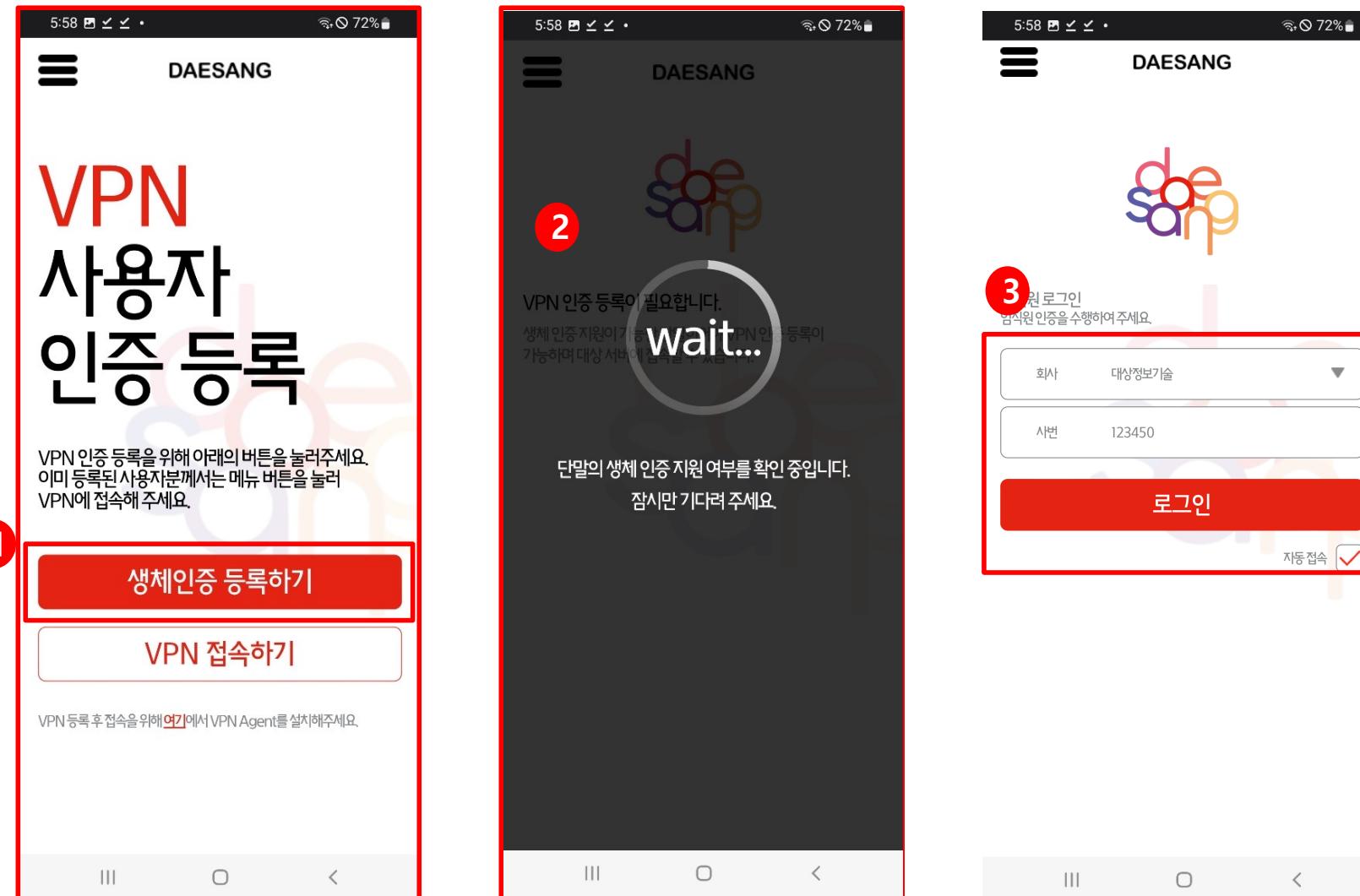
3. Biometric authentication app NPass Installation (Android)

3-5. Click 'Do not send' in the security confirmation window → Click 'Ignore and Install' → Click



3. Biometric authentication app NPass Installation (Android)

3-6. Check whether device is supported → Log in after entering the group company and employee number





3. Biometric authentication app NPass Installation (Android)

3-7. Log in after entering the group company and employee number (check automatic connection) → After checking the mobile ph1 number, click ' Send authentication code ' → After checking the OTP code, enter the authentication code →

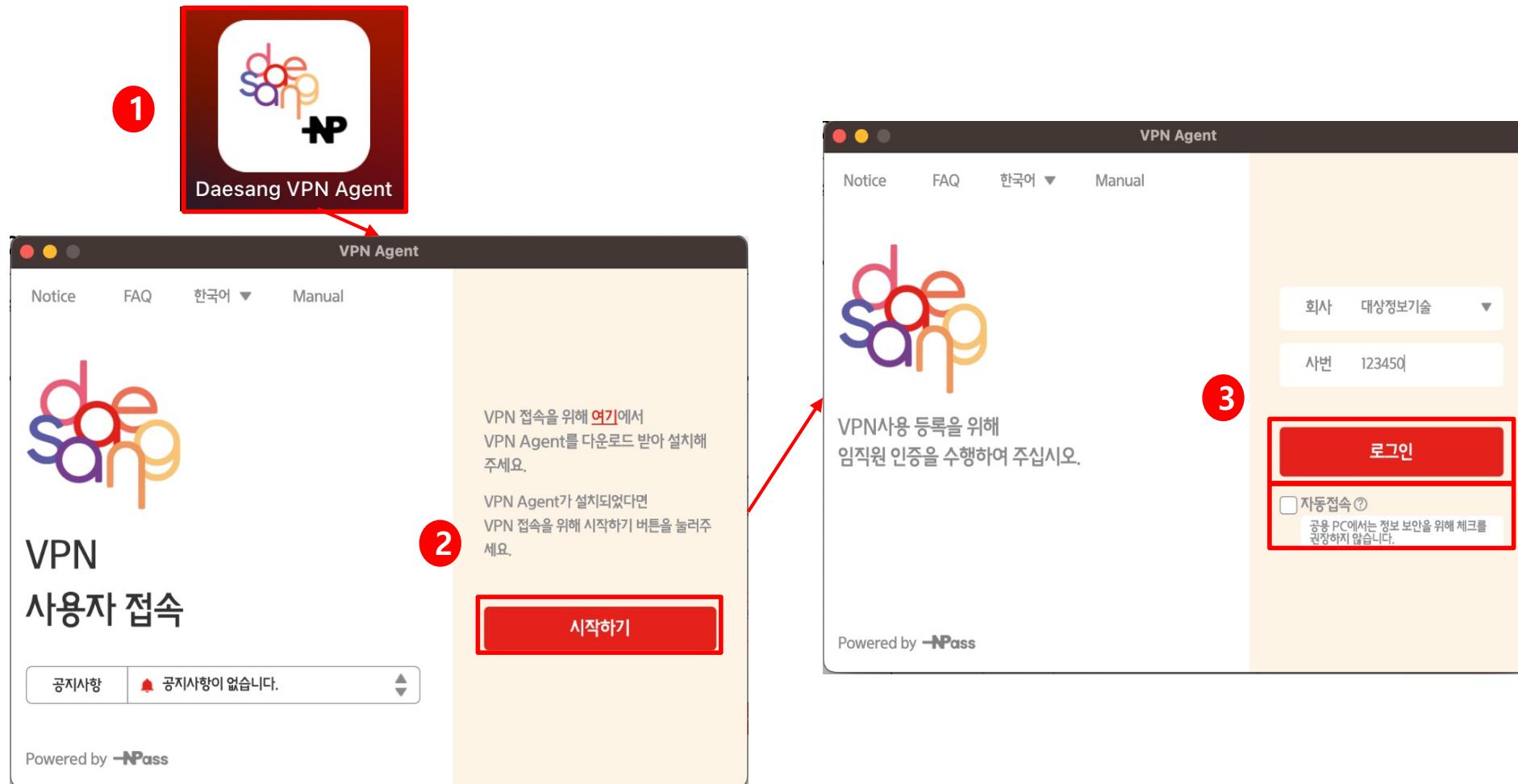
Click ' Add authentication terminal ' → Check





4. Biometric authentication app NPass Installation (iPh1)

4-1. Run VPN Agent and click Start → Log in with group company and employee number



4. Biometric authentication app NPass Installation (iPh1)

4-2. After confirming that your mobile ph1 number is correct, click Send Verification Code





4. Biometric authentication app NPass Installation (iPh1)

4-3. Biometric authentication app When installing and registering for authentication, the authentication method will be replaced by cell ph1 biometric authentication instead of OTP authentication from the next login .

(Recommended) → * NPass When installing : Click on the QR mark for the biometric authentication app link → Scan the QR code with your cell ph1 and enter NPass install app

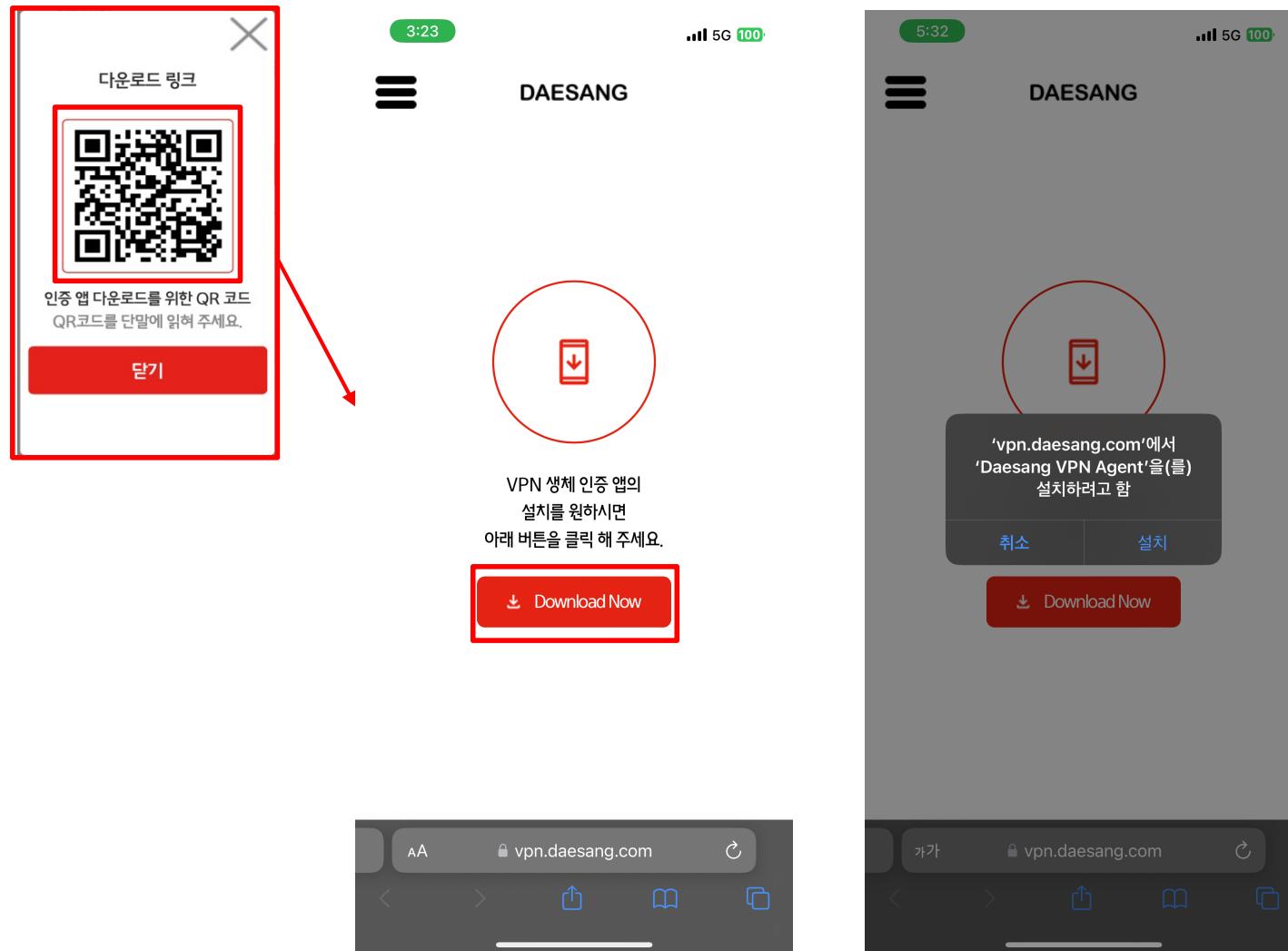
* NPass When proceeding without installation : Check the OTP code sent as a text message to your mobile ph1 and enter it in the authentication code field → Click the " Enter authentication code " button to connect to

The image shows three screens illustrating the NPass installation process:

- VPN Agent Interface:** A desktop application window titled "VPN Agent". It features a "Notice" section with the deSoop logo and Korean text: "시스템을 사용하기 위해서는 본인 인증이 필요합니다." (For system use, self-authentication is required). Below this, it says "010-****-**39 으로 전송된 코드를 입력해주세요." (Enter the code sent via 010-****-**39). At the bottom, it says "Powered by NPass".
- Text Message:** A smartphone screen showing a text message from "Web발신" to "최 성 님 [OTP Code]". The message content is "[Web발신] 최 성 님 [OTP Code] : 267889".
- QR Code Dialog:** A separate window titled "다운로드 링크" (Download Link) containing a QR code. Below the QR code, it says "인증 앱 다운로드를 위한 QR 코드" and "QR코드를 단말에 읽혀 주세요.". A red arrow points from the "인증 코드 입력" field in the VPN Agent interface to the QR code in this dialog.

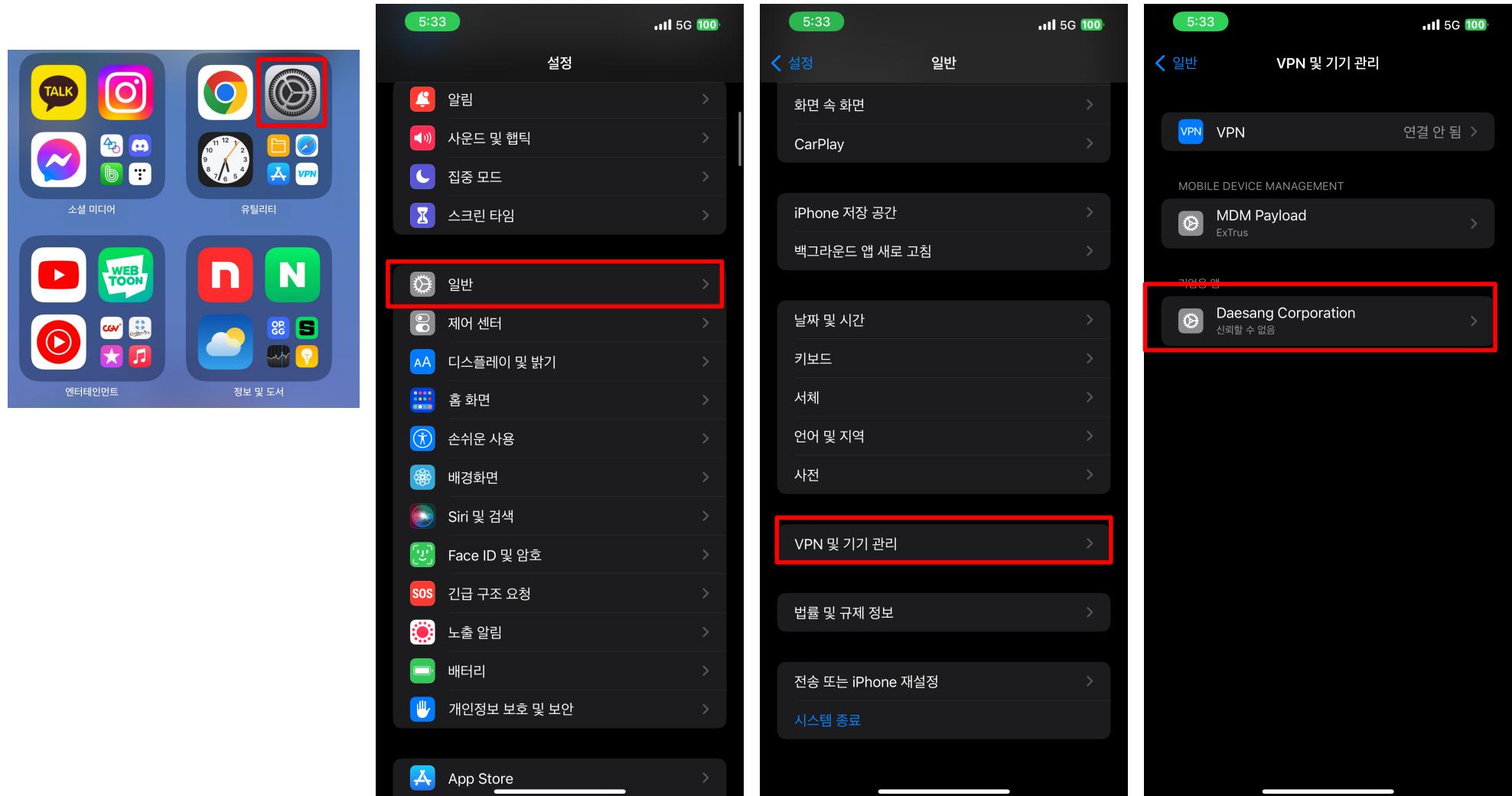
4. Biometric authentication app NPass Installation (iPh1)

4-4. Scan QR code with your ph1 □ Click "Download NOW button " → Proceed with installation



4. Biometric authentication app NPass Installation (iPh1)

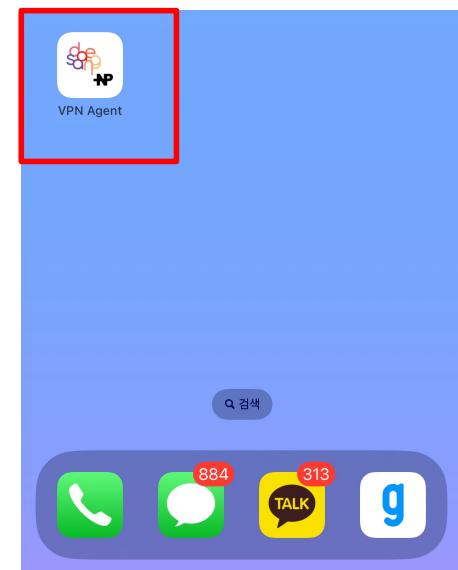
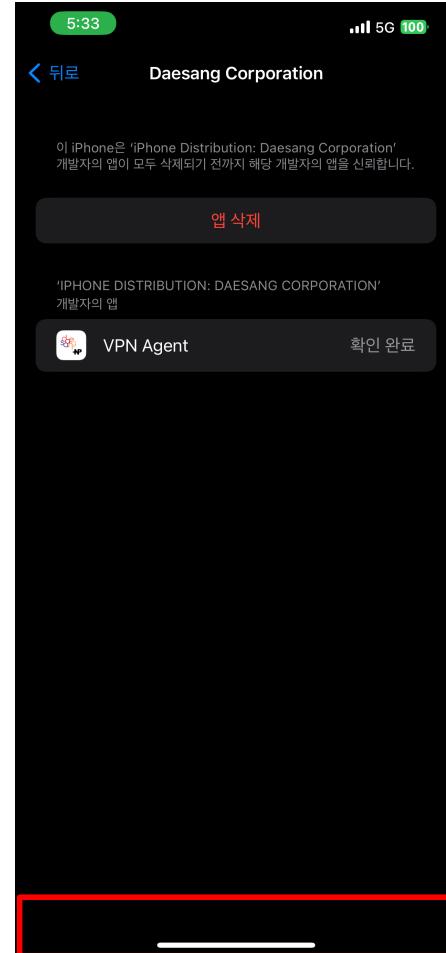
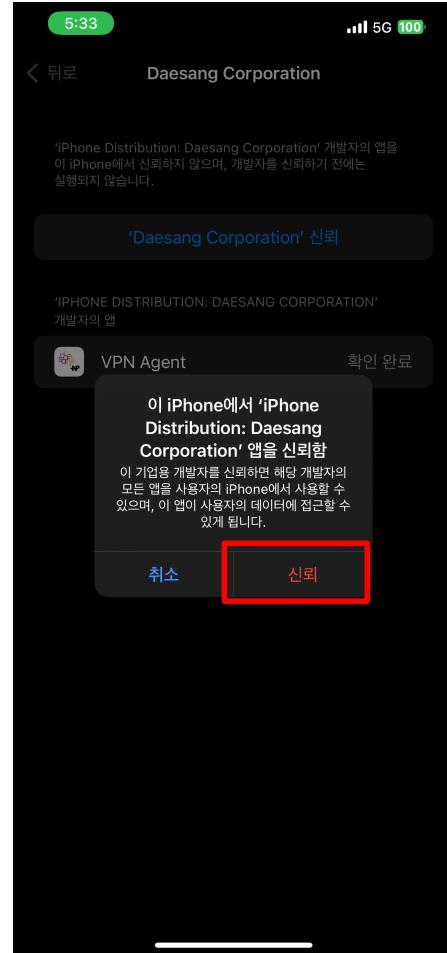
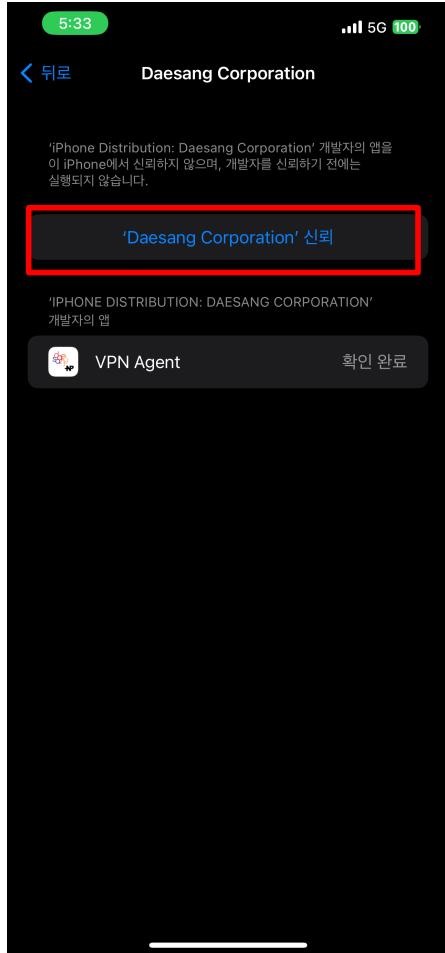
4-5. Settings → General → VPN and device management → Daesang Corporation





4. Biometric authentication app NPass Installation (iPh1)

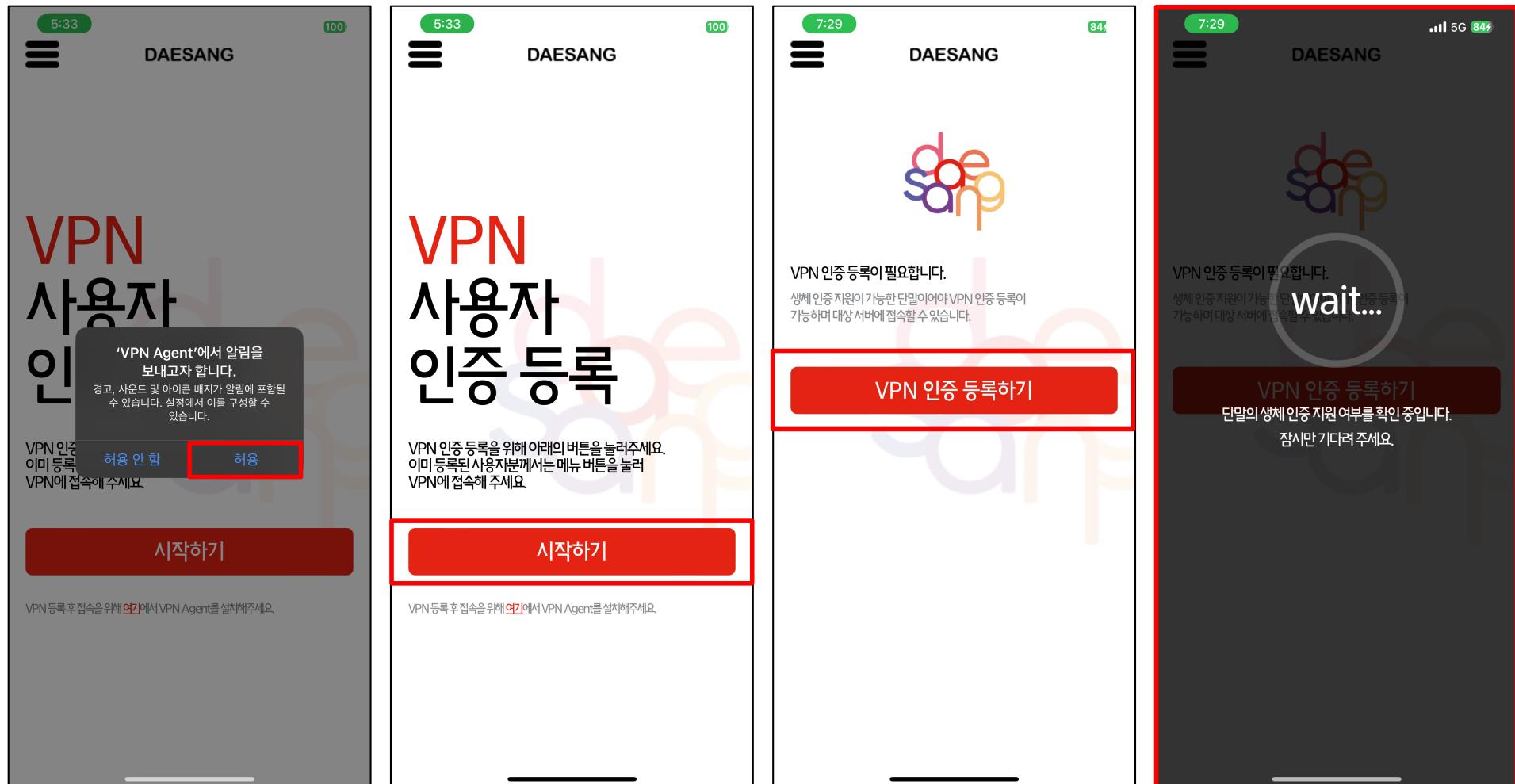
4-6. Click the 'Daesang Corporation' trust button → Trust → Then return to home and run





4. Biometric authentication app NPass Installation (iPh1)

4-7. Allow 'VPN Agent' notifications (Must be allowed for authentication .) → Get started → Register VPN authentication

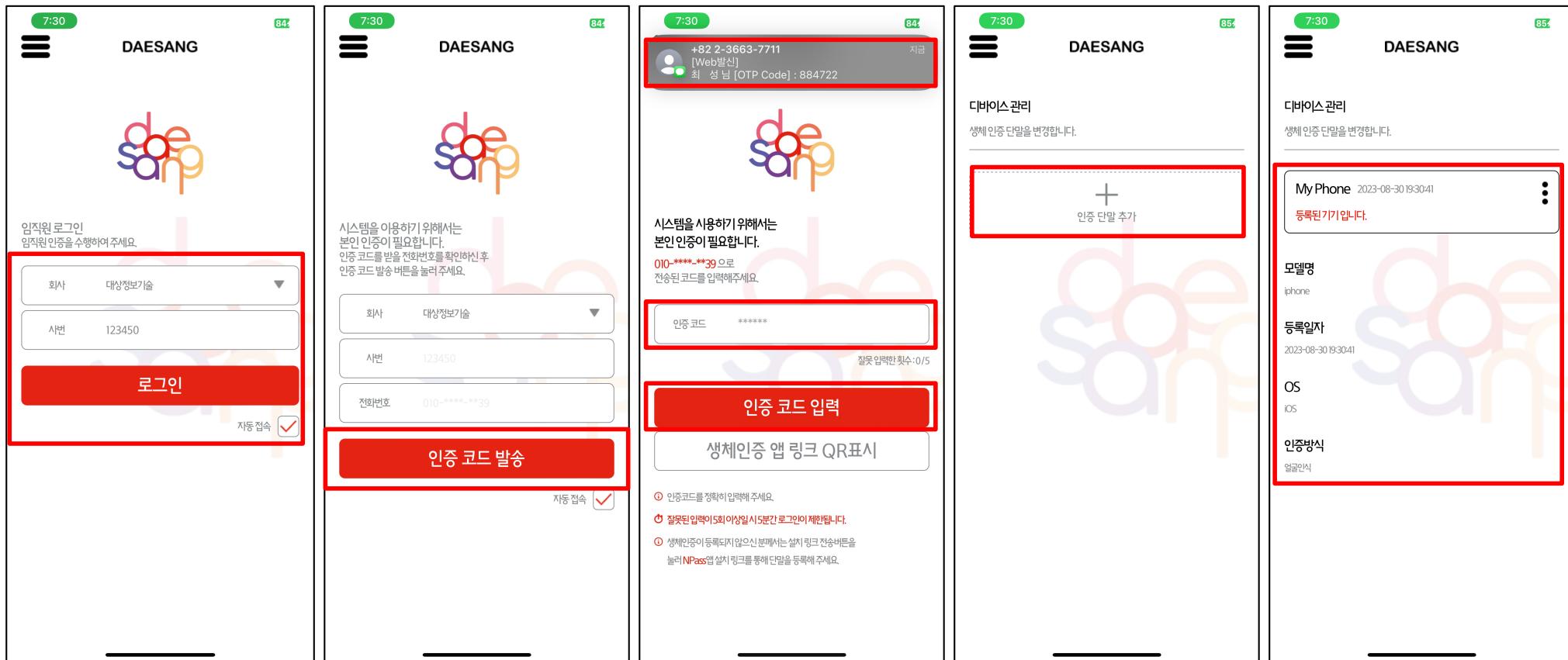




4. Biometric authentication app NPass Installation (iPh1)

4-8. Log in after entering the group company and employee number (check automatic connection) → After checking the mobile ph1 number, click ' Send authentication code ' → After checking the OTP code, enter the authentication code →

~~Click ' Add authentication terminal ' → Check~~

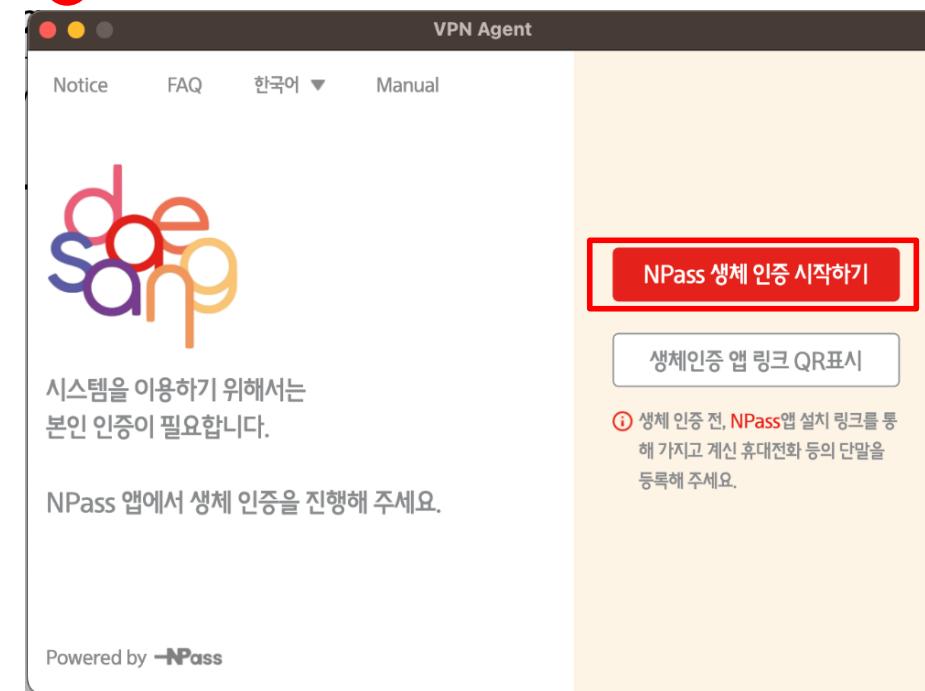


5-1. NPass after logging in again to VPN client Click to start biometric authentication

1



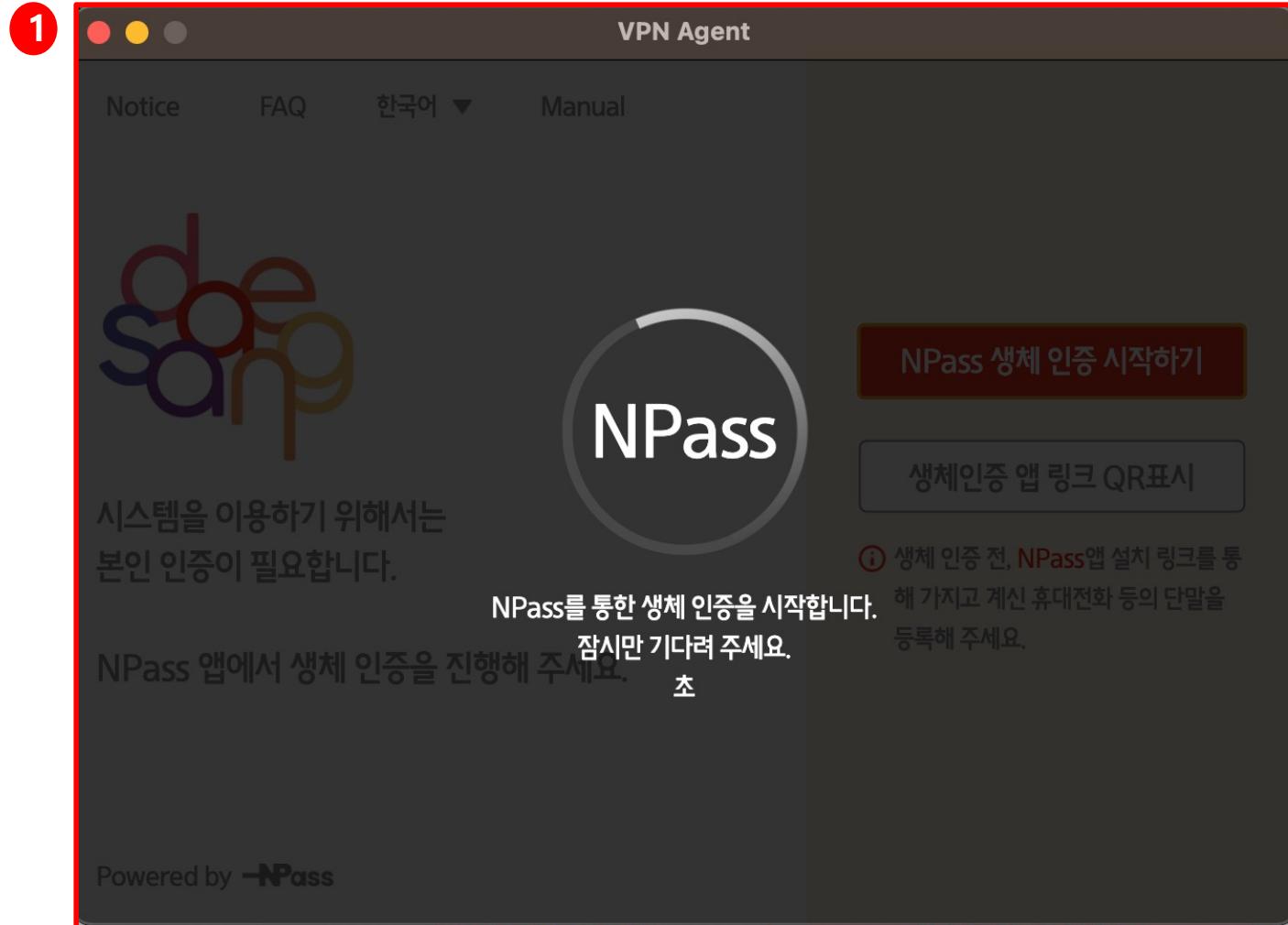
2





Install

5-2. Biometric authentication performed on the registered mobile ph1



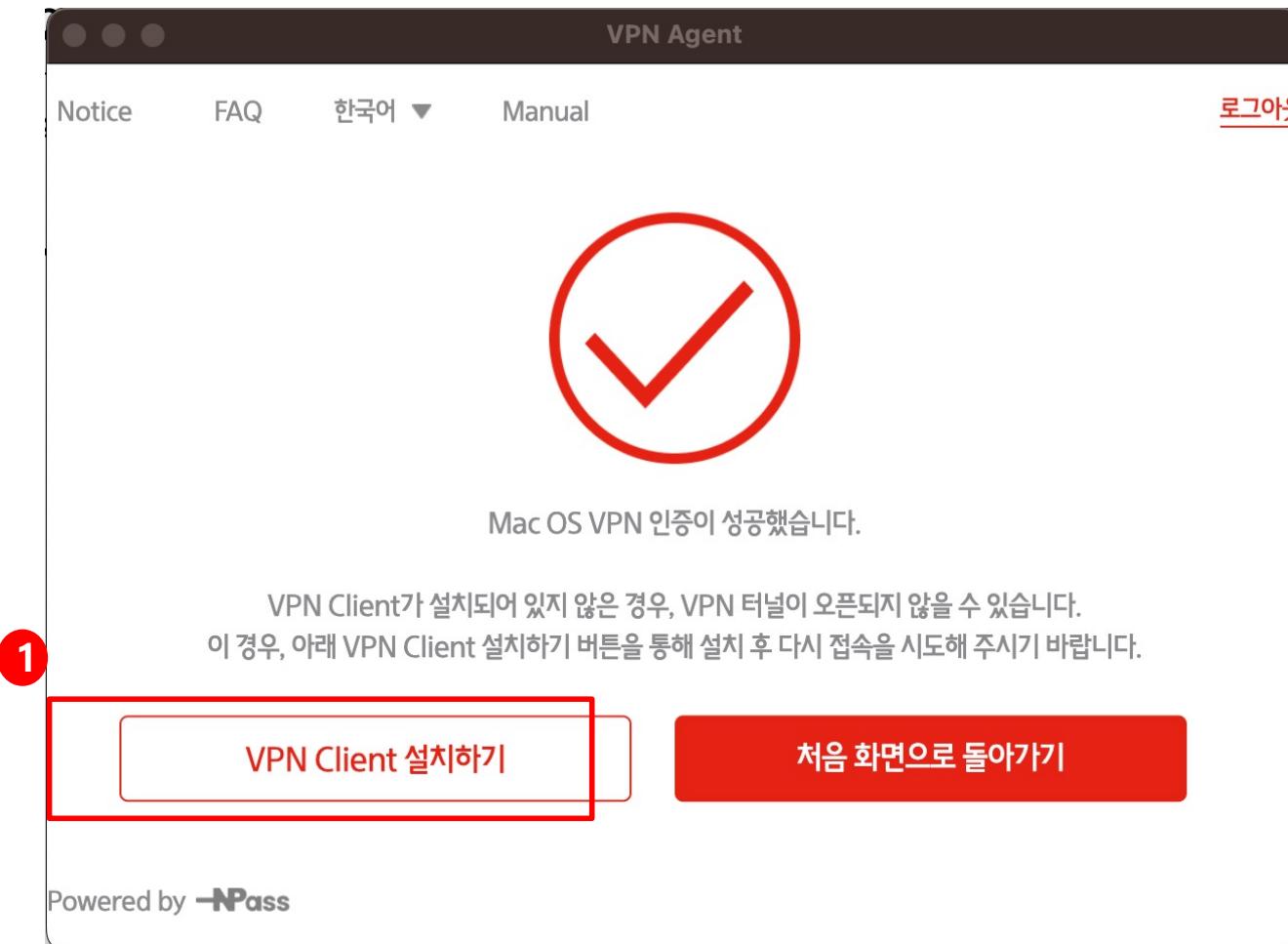


Install

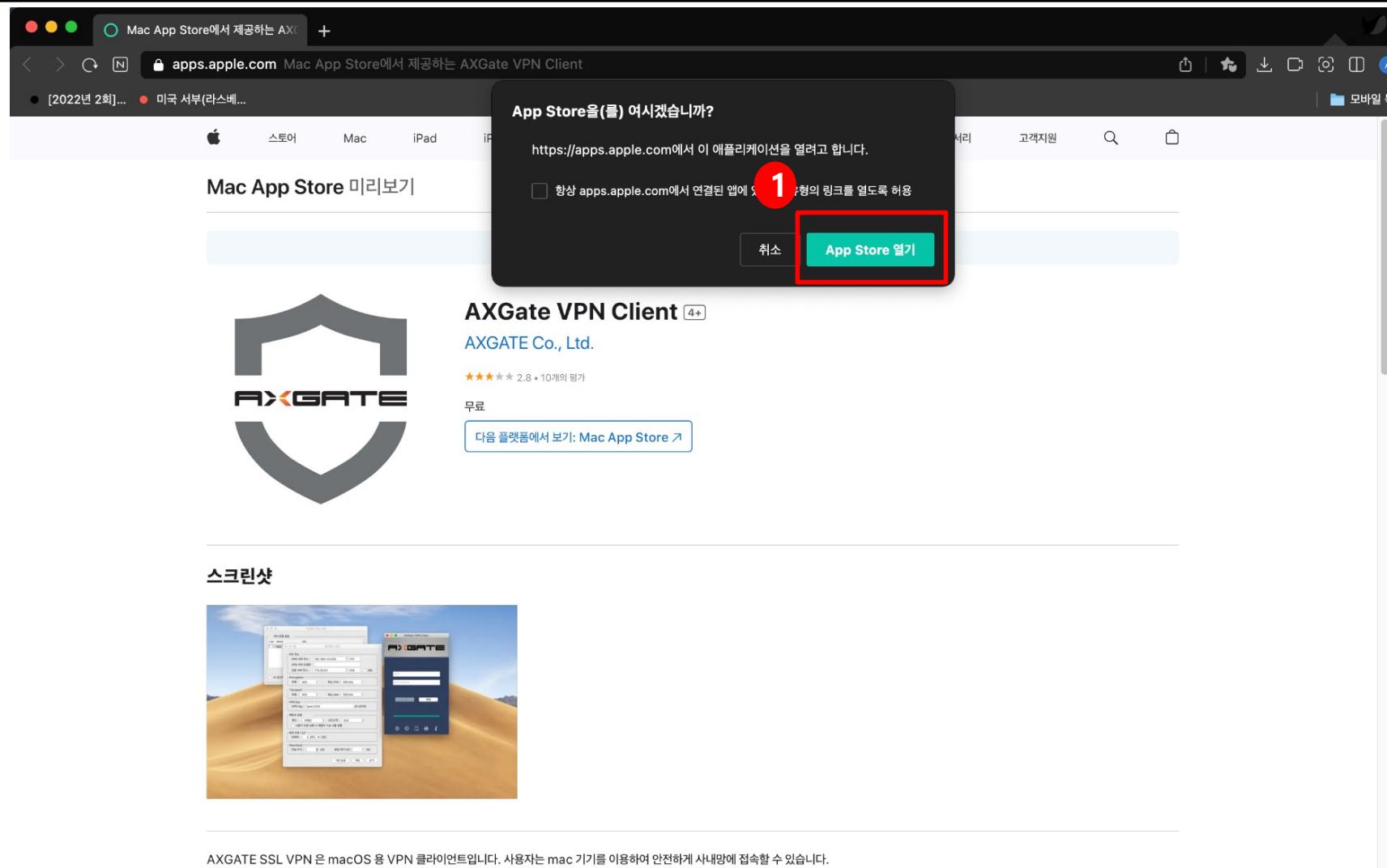
5-3. MAC OS VPN Client environment check

The screenshot shows a dark-themed user interface for a VPN agent. At the top, there are three circular icons and the text "VPN Agent". Below that is a navigation bar with "Notice", "FAQ", "한국어 ▾", and "Manual". On the left, the "de soap" logo is displayed. In the center, there is a large circular icon containing the letters "VPN". To the right of the circle are two buttons: a red one labeled "NPass 생체 인증 시작하기" and a grey one labeled "생체인증 앱 링크 QR표시". Below these buttons, a note says: "① 생체 인증 전, NPass 앱 설치 링크를 통해 가지고 계신 휴대전화 등의 단말을 등록해 주세요." On the left side, there are two messages: "시스템을 이용하기 위해서는 본인 인증이 필요합니다." and "사용자 인증에 성공했습니다.". At the bottom, it says "NPass 앱에서 생체 인증을 진행해 주세요" and "Mac OS VPN의 접속 환경 체크 중입니다. 잠시만 기다려 주세요.". At the very bottom, it says "Powered by NPass".

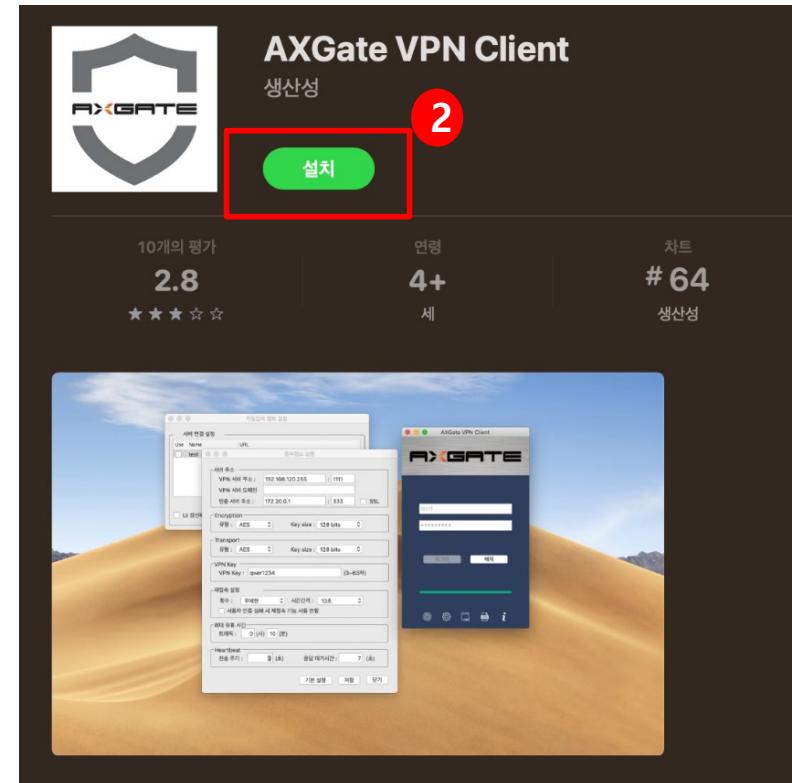
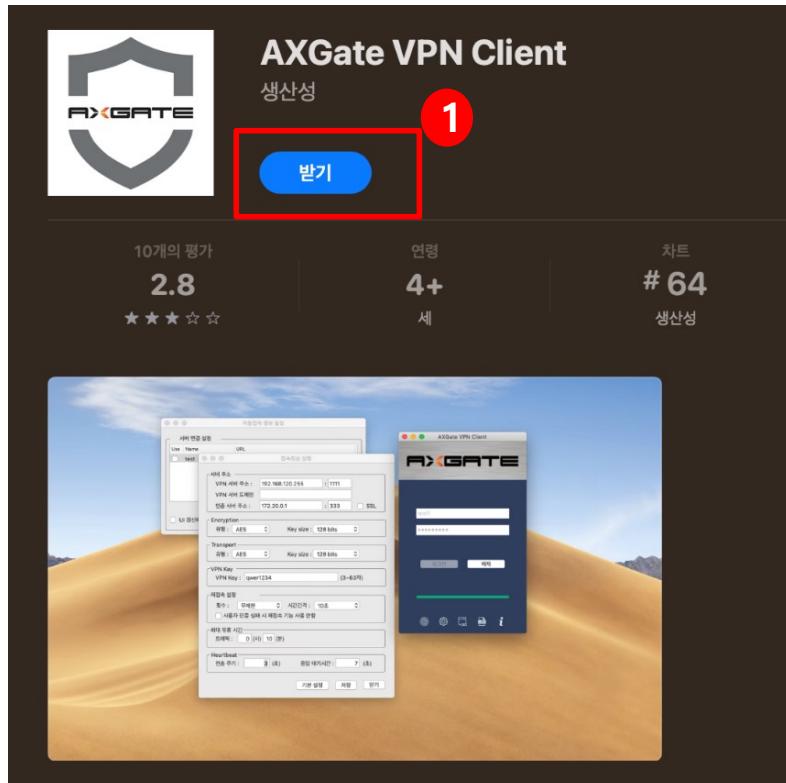
5-4. Click to install



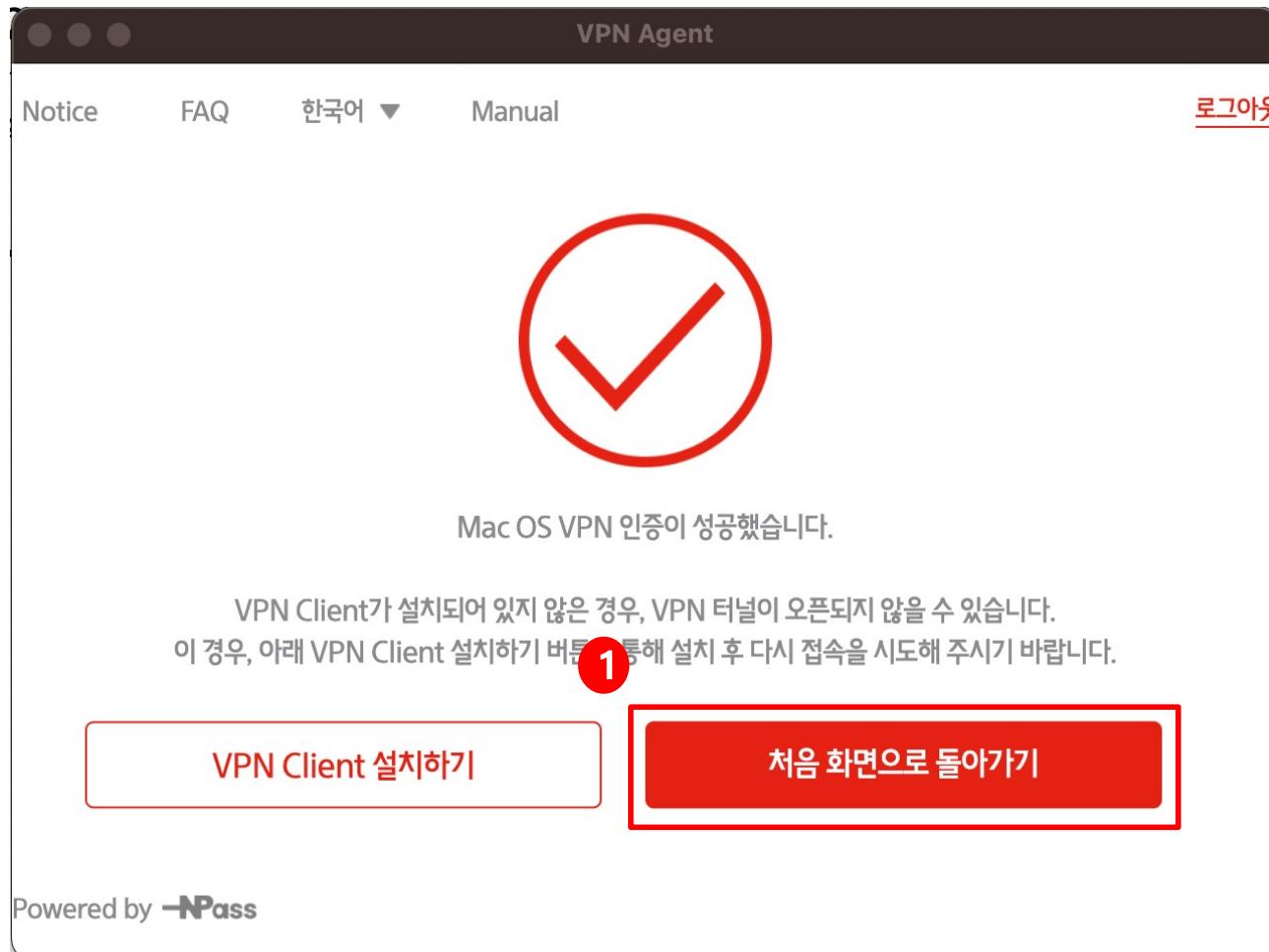
5-5. Click to open



5-6. Get AXGate VPN Client → Proceed with installation



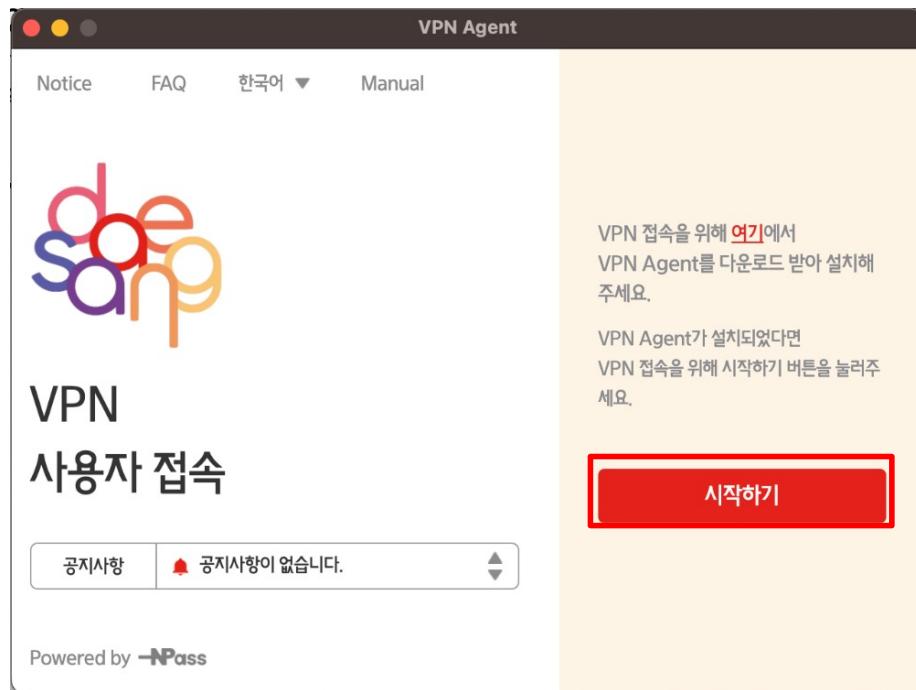
5-7. After installation is complete, return to VPN Agent and click the



6. VPN connection (using Agent)

6-1. Run VPN Agent and click Start

1

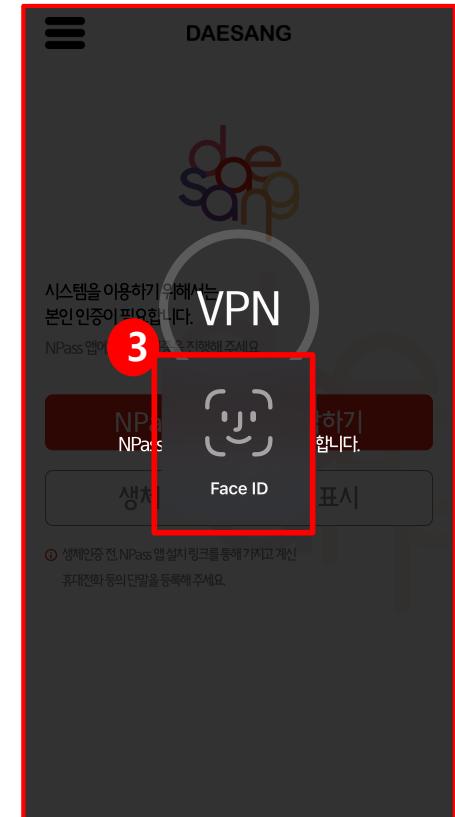
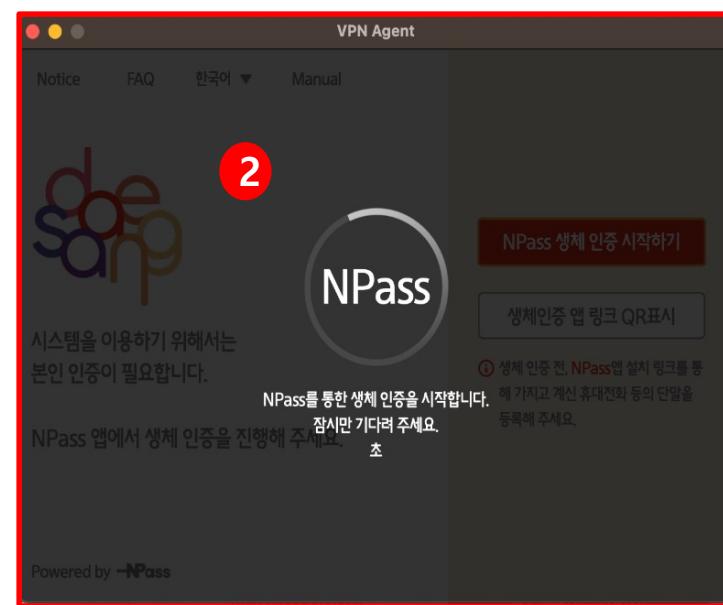


2



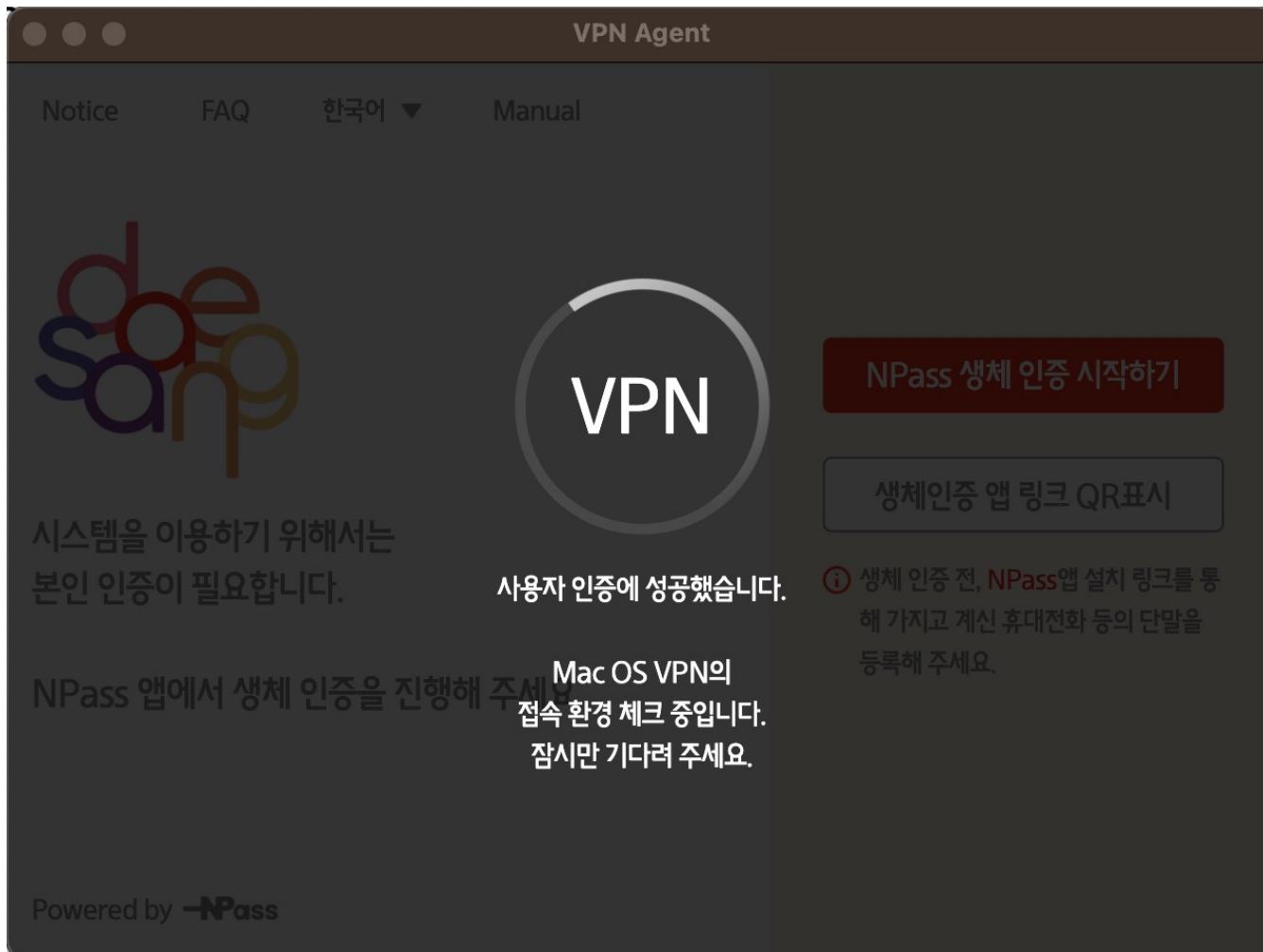
6. VPN connection (using Agent)

6-2. NPass Click the Start Biometric Authentication button → Check registered mobile → Proceed with biometric authentication



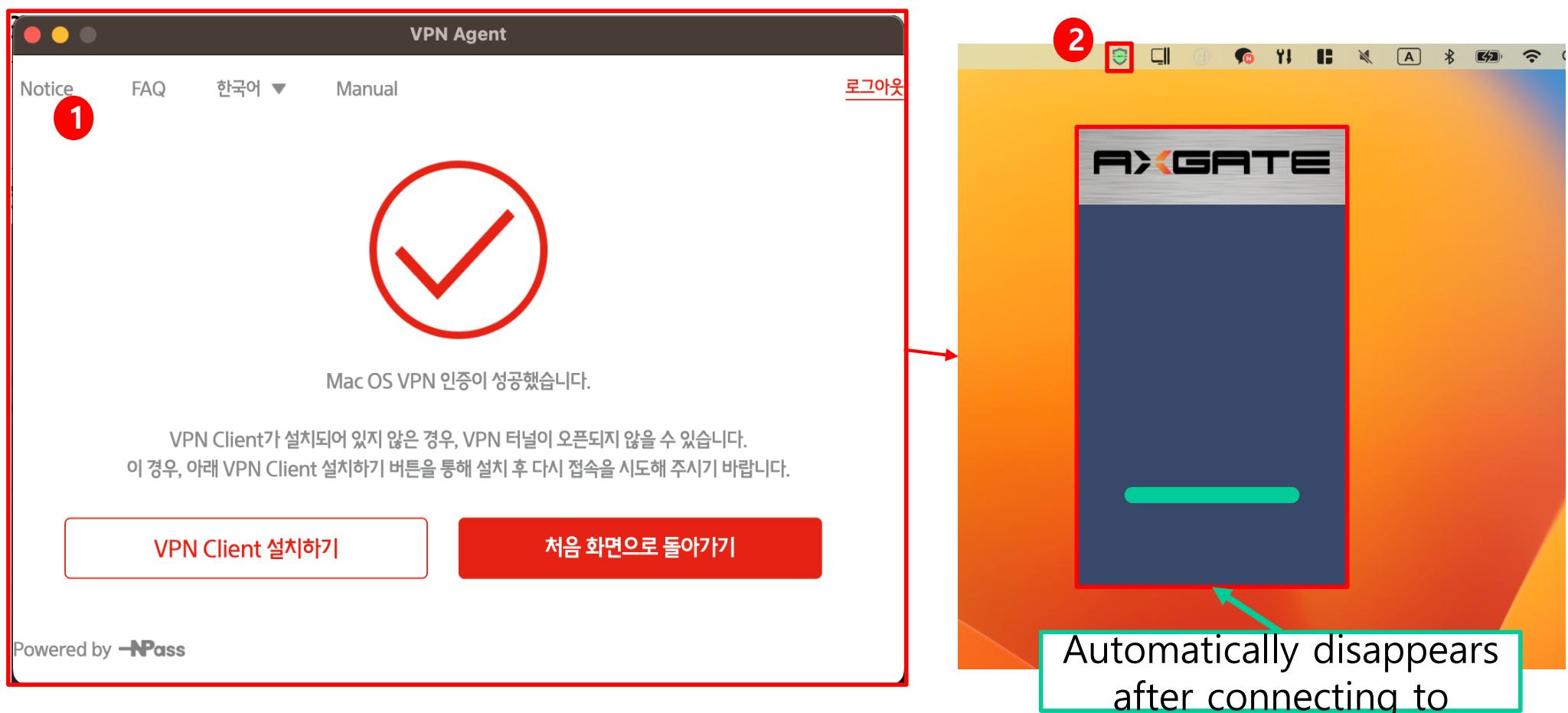
6. VPN connection (using Agent)

6-3. Check



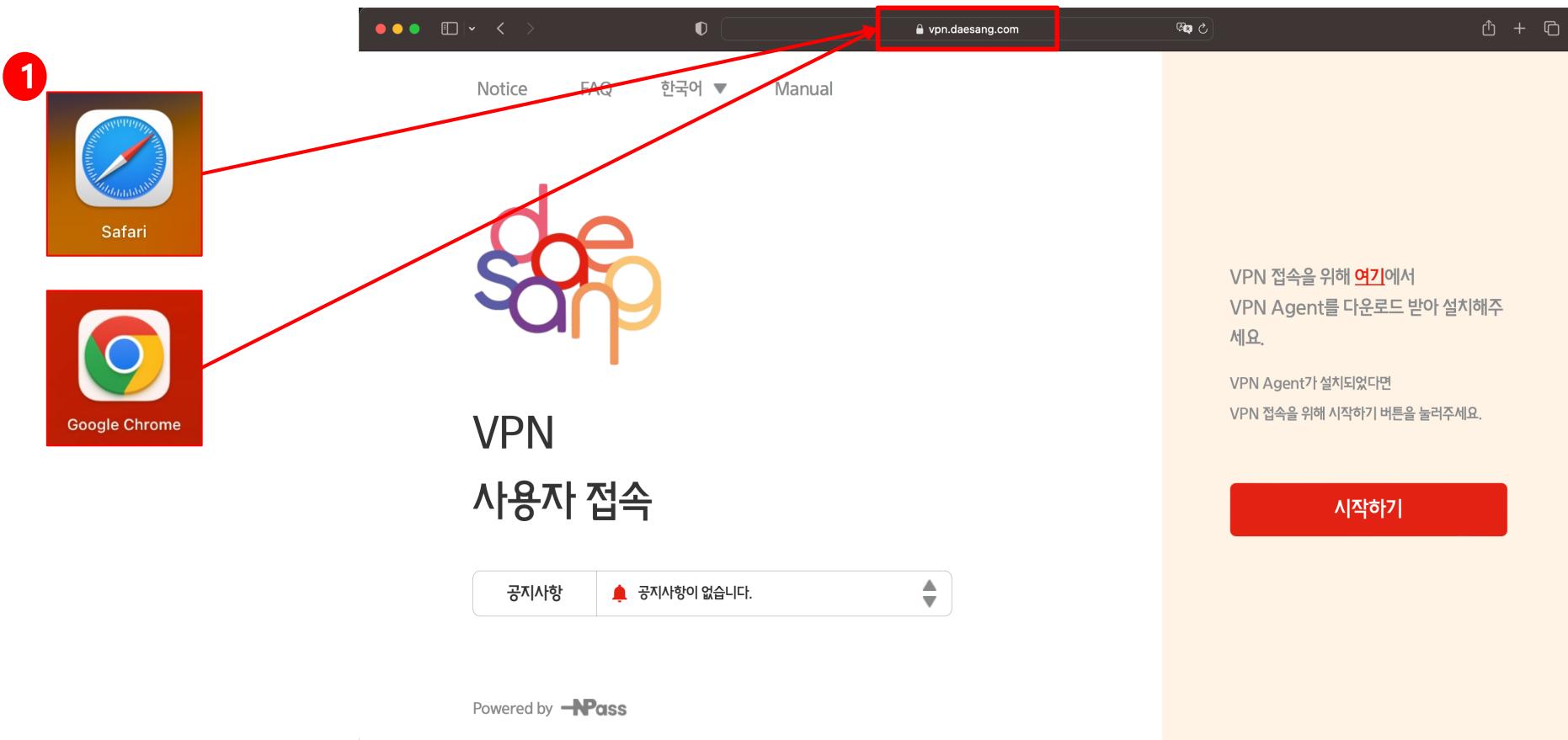
6. VPN connection (using Agent)

6-4. VPN connection complete → If there is a green sign in the upper right corner, normal connection is complete.



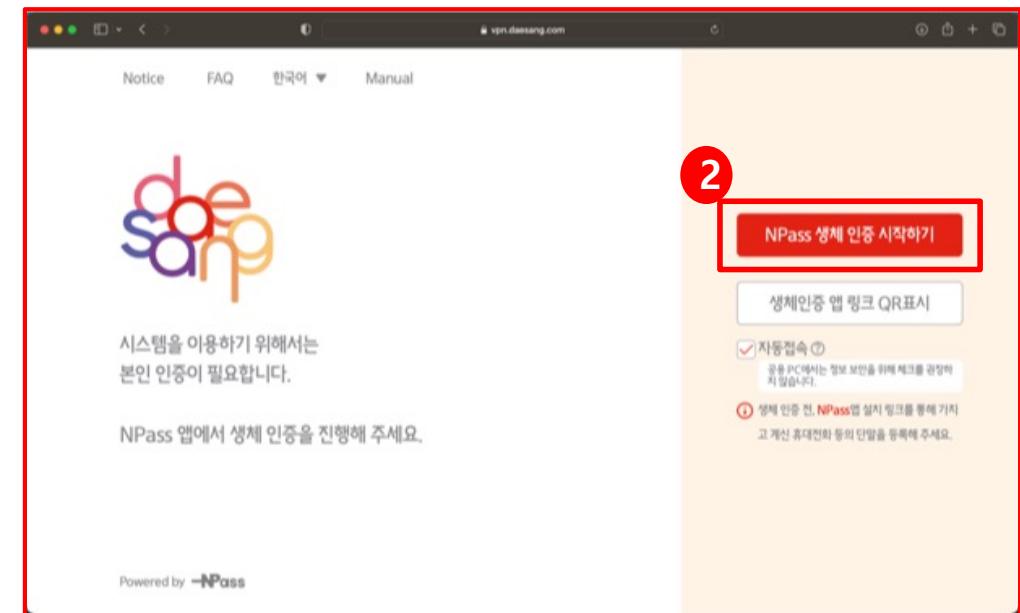
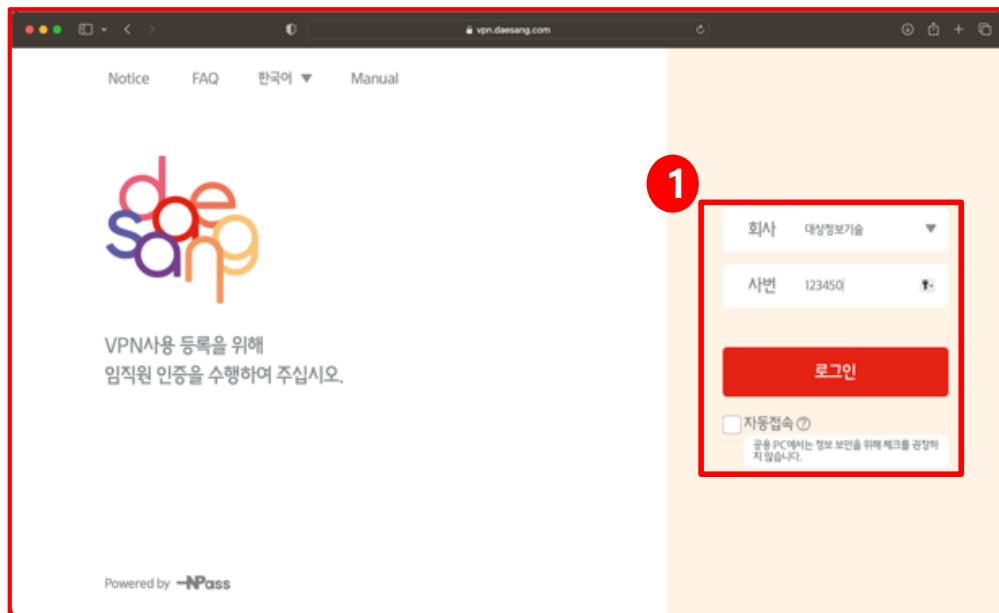
7. VPN connection (without agent)

7-1. Launch internet browser → vpn.daesang.com connect



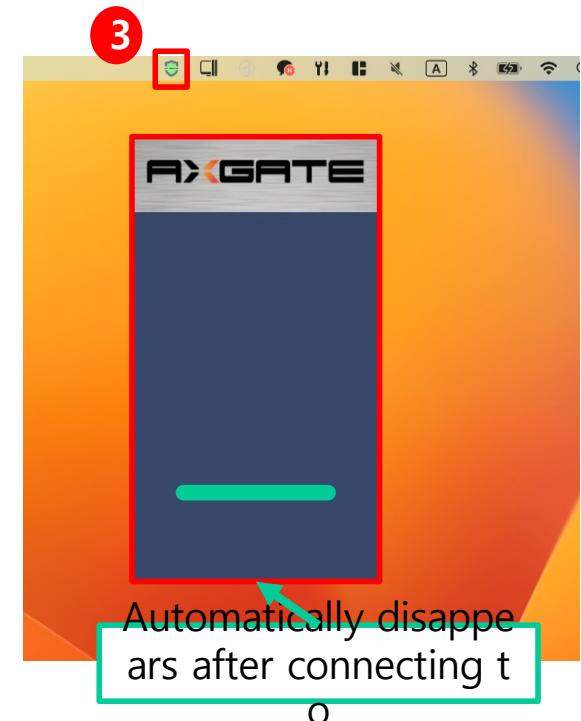
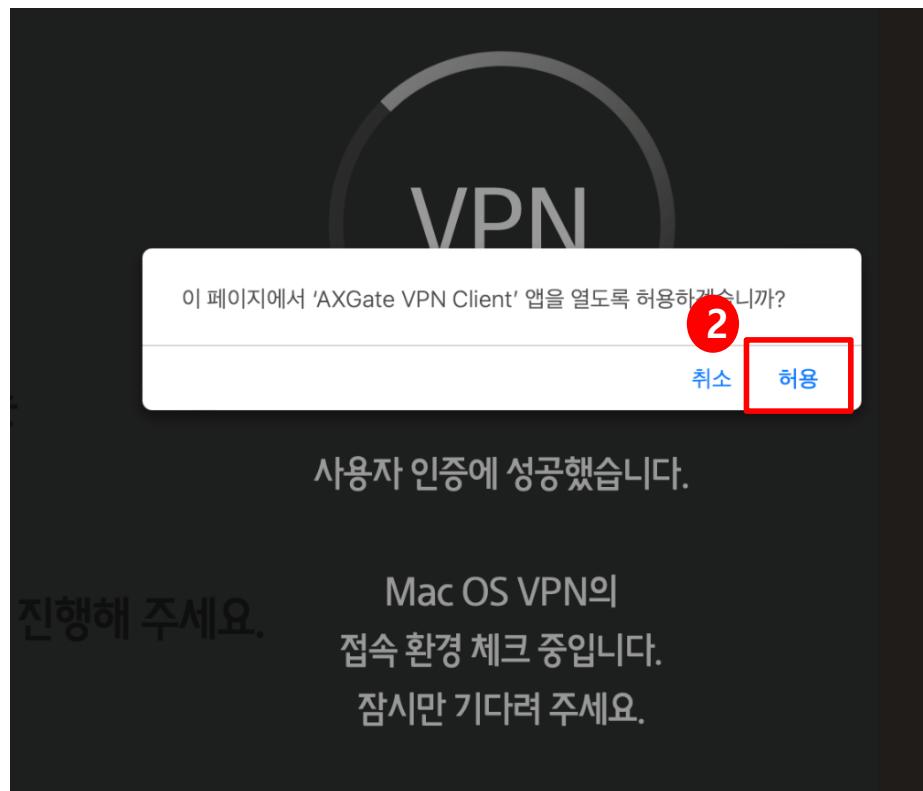
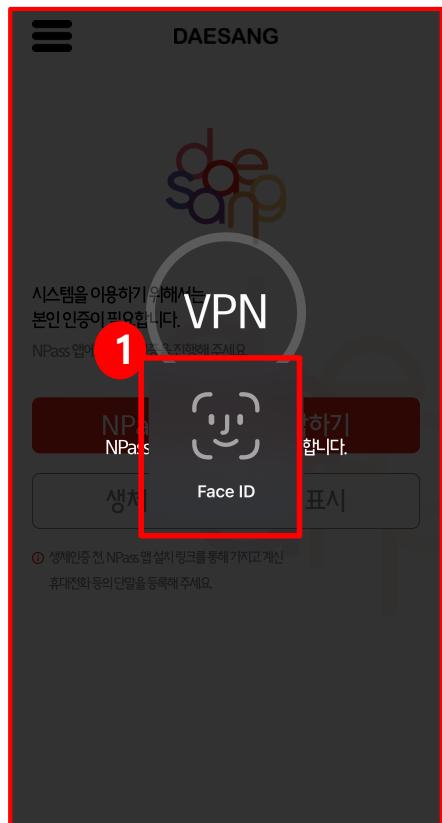
7. VPN connection (without agent)

7-2. NPass Click the Start Biometric Authentication button → Check registered mobile → Proceed with biometric authentication



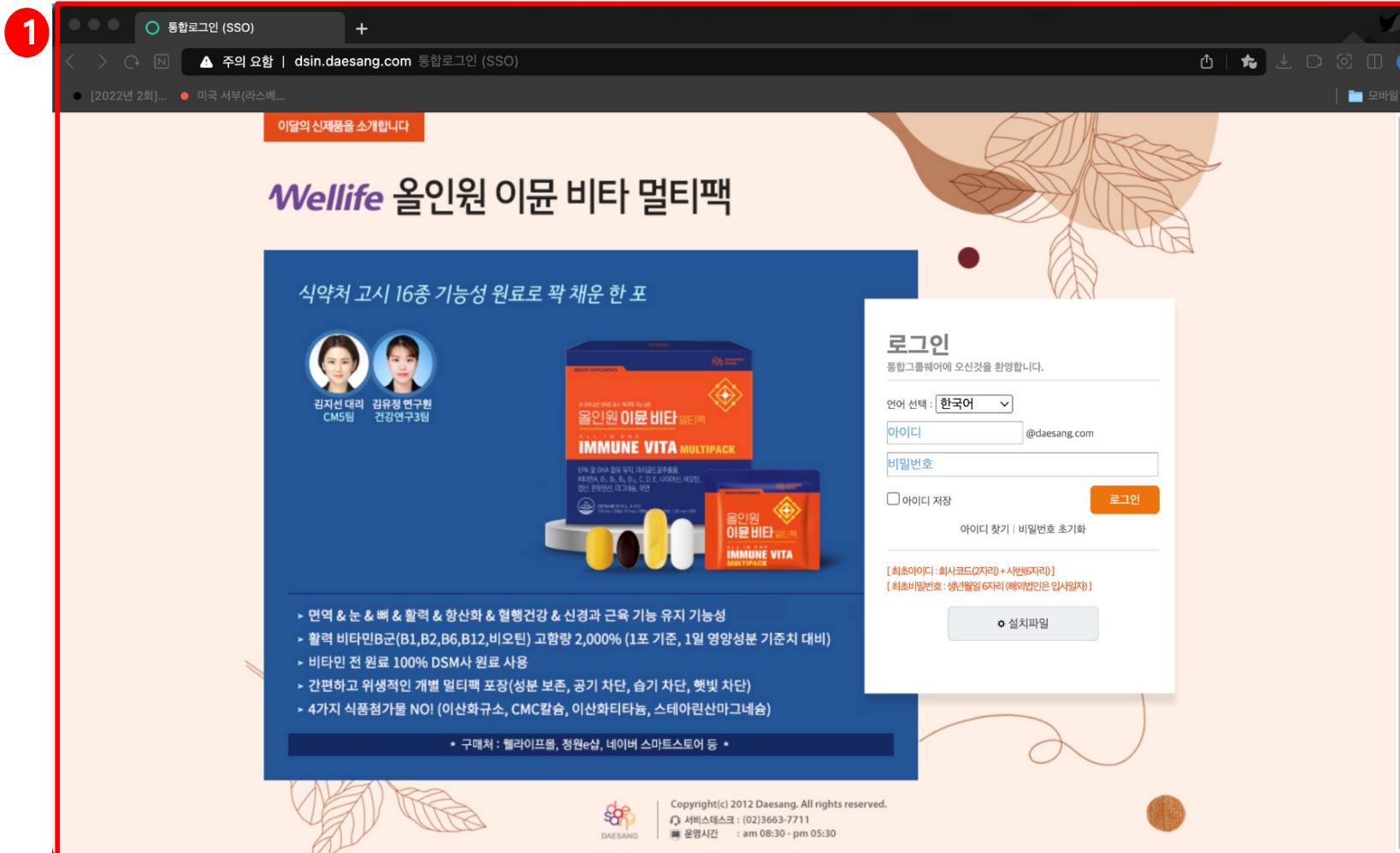
7. VPN connection (without agent)

7-3. Proceed with biometric authentication on the registered terminal □ Allow opening of AXGATE VPN Client
→ Check the green mark at the top right



7. VPN connection (without agent)

7-4. After normal login, dsin.daesang.com autorun



8. VPN logout

8-1. Click the tray icon in the upper right corner □ Click Disconnect VPN → Confirm that the icon turns gray → Normal login completed





Thank you .