|  |  |
| --- | --- |
| Difference between authentication and authorization | |
| **Authentication** | **Authorization** |
| **Usually be the first step of security access control** | **Comes after authentication** |
| **Verifies the user’s identity** | **Grants or denies permissions to the user** |
| **Common methods include username, password, sending code via SMS/email, biometrics, etc.** | **Permissions are granted and monitored by the organization to access to resources** |
| **Visible and changeable by the user** | **Not visible or changeable by the user.** |
| **Data moved through data tokens** | **Data moved through access tokens.** |
| **Example: Users in software company are required to authenticate themselves before they are allowed to access** | **Example: after users authenticate successfully,**  **company system will determine where they are allowed to access.** |