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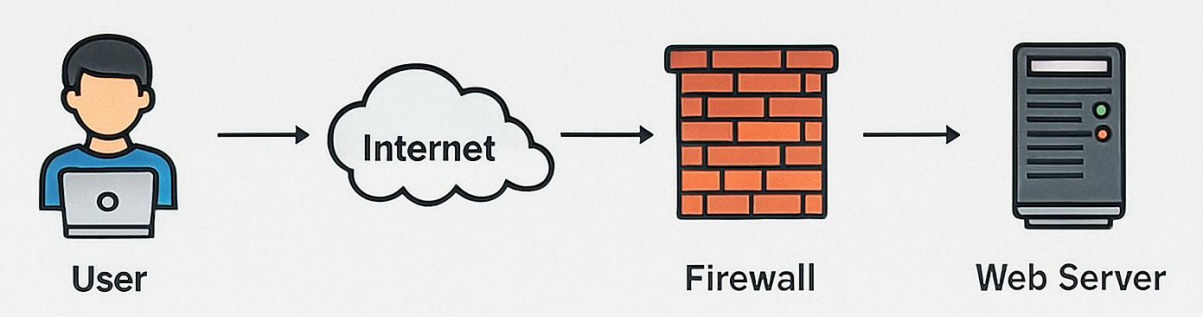
2025-10-27

Secure Access to Web Servers
Use Case

1 Initial situation

A company operates one or more web servers on its intranet. Access is therefore either not secured at all or only weakly secured (e.g. with a username/password).

- Now access from the Internet is to be opened to a specific group of people.
- Stronger authentication is necessary because security with just a username/password is too weak for accessing sensitive data from the Internet.
- Upgrading web servers with strong authentication is either impossible or difficult.



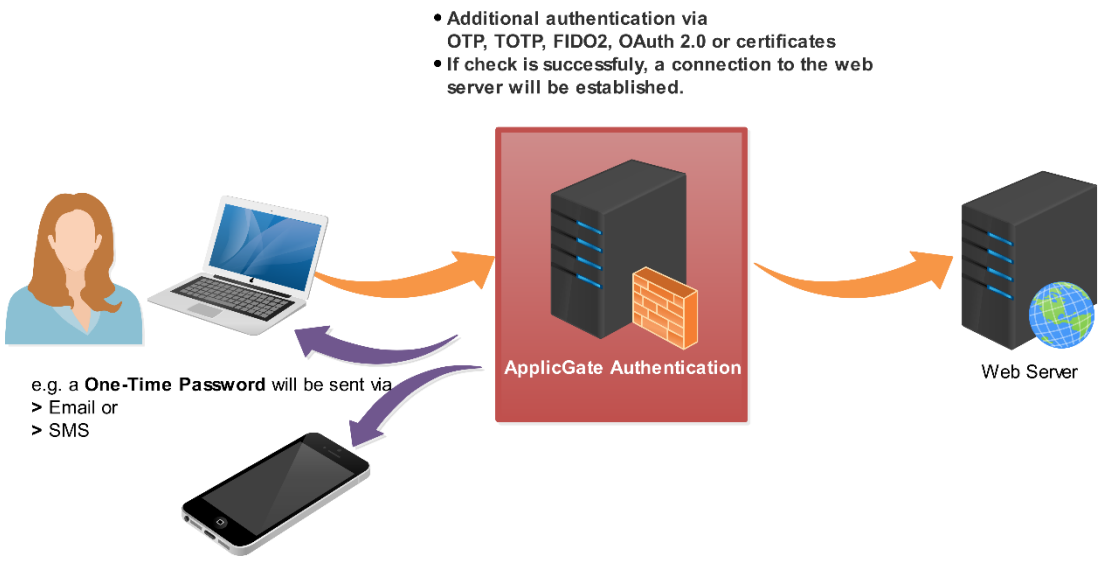
2 Requirements

- **Strong authentication** (multi-factor authentication, MFA) when accessing the web server from the Internet.
- **No change** on the **web server** .
- **Logging of all accesses** for traceability and compliance.
- **Easy installation** .
- **High availability** .
- **Easy integration** into existing IT and security infrastructures:
  Compatible with existing firewalls.

3 Solution by ApplicGate WebAuth

ApplicGate is a software solution that runs on Windows and Linux and can be easily installed on existing systems.

3.1 Network schema



3.2 Fulfillment of requirements by ApplicGate WebAuth

- Various **strong authentication methods** are available:
  - **One -Time-Password** (OTP) via email or SMS
  - **Time-based One-Time-Password** (TOTP) with Google or Microsoft **Authenticator**
  - **FIDO2** (with hardware token or passkey , e.g. Windows Hello)
  - **OAuth 2.0**
  - Software **certificates** or smart cards

  Note:
  With **OAuth 2.0,** an existing authentication (e.g. Microsoft Entra-ID, Google) can be adopted.
- If OTP, TOTP, or FIDO2 is used for authentication, the user must be created by an administrator in ApplicGate. At a minimum, the email address must be provided. Optionally, times when the user can be active can be defined.
- When using certificates or OAuth 2.0, no user creation is necessary.
- **Encryption with TLS**
- All **accesses are logged** on the ApplicGate server .
- **Easy installation** :
  ApplicGate can be installed directly on the web server or on any other computer.
  The preconfigured software is launched with a mouse click. The target address, web server certificate, and license are specified.
- ApplicGate can be easily integrated into existing IT and security infrastructures and is compatible with existing firewalls.

4 Optional additional functions

- Using **an external IP address** to access various web servers.
- Time-dependent rerouting.

5 Strengths of ApplicGate WebAuth

- **Development from practice** to easily upgrade existing installations.
- **Secure authentication**
- **Easy installation**
- **Flexible architecture** :
  Can be installed directly on the web server or any other computer (Linux or Windows).

6 Table of Contents