

Security as a Service  
for Any Enterprise.



## Cloudvue Technical Overview

Your Trusted Partner for a Secure and Healthy Workplace

OpenBlue Security  
Johnson Controls





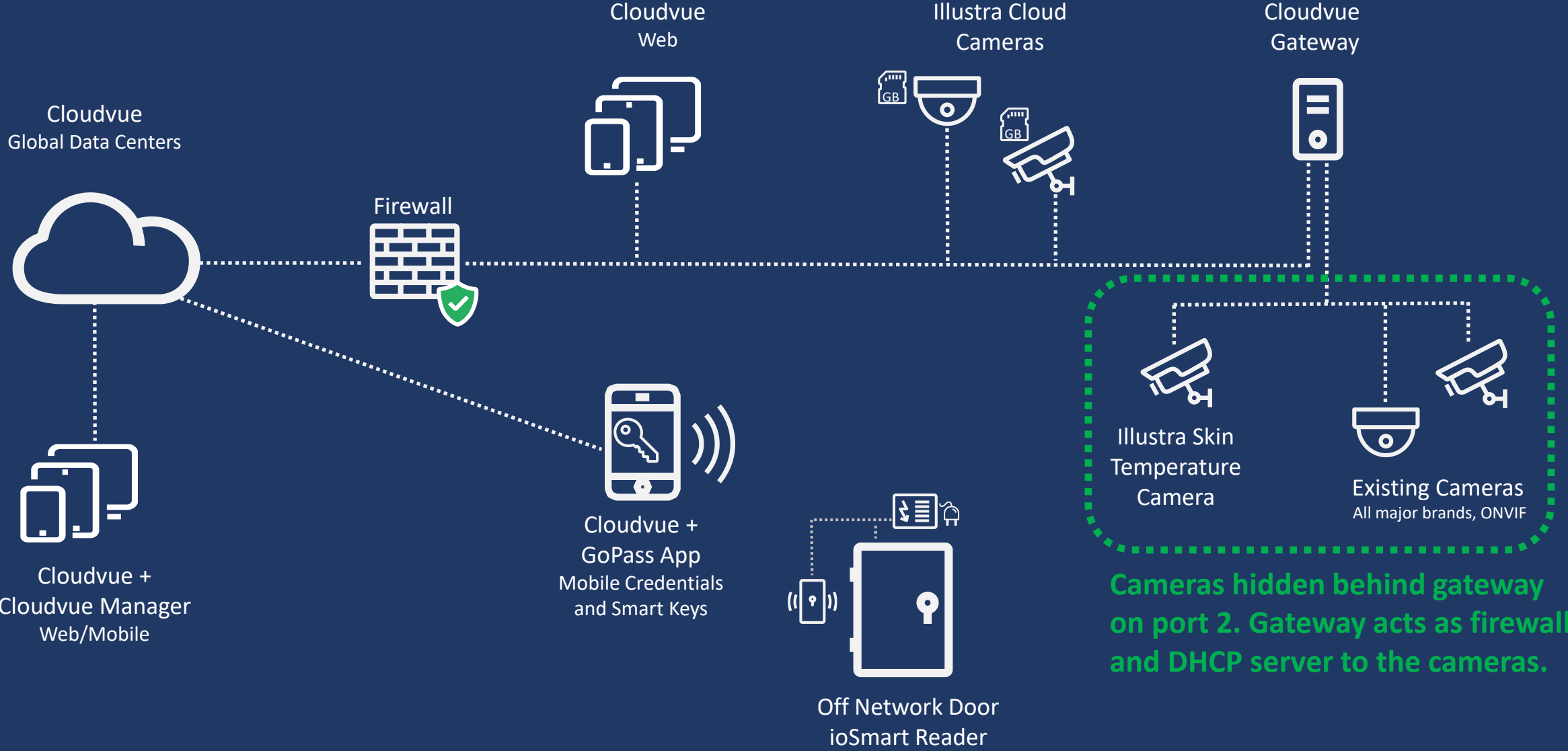
# Cloudvue Digitally Transforms Security

- Cloud Based Video Surveillance and Access Control
- Cost-efficient SaaS with secure cloud connected hardware
- Modern Microservices Architecture
- Advanced Integrated Cyber Security and Privacy
- Open RESTful API with 500+ End Points

# Cloudvue Solution Architecture

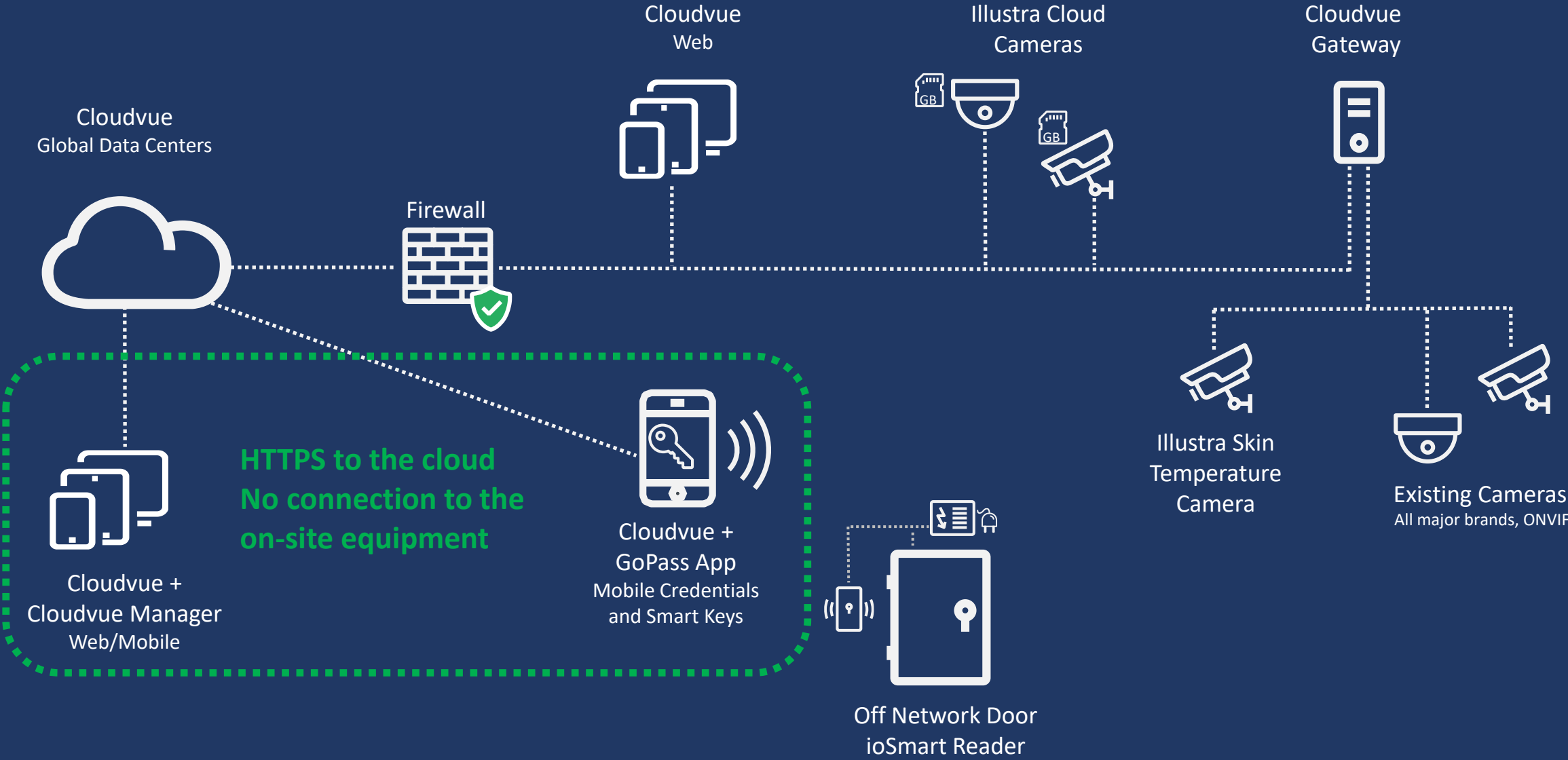


# Cloudvue Solution Architecture

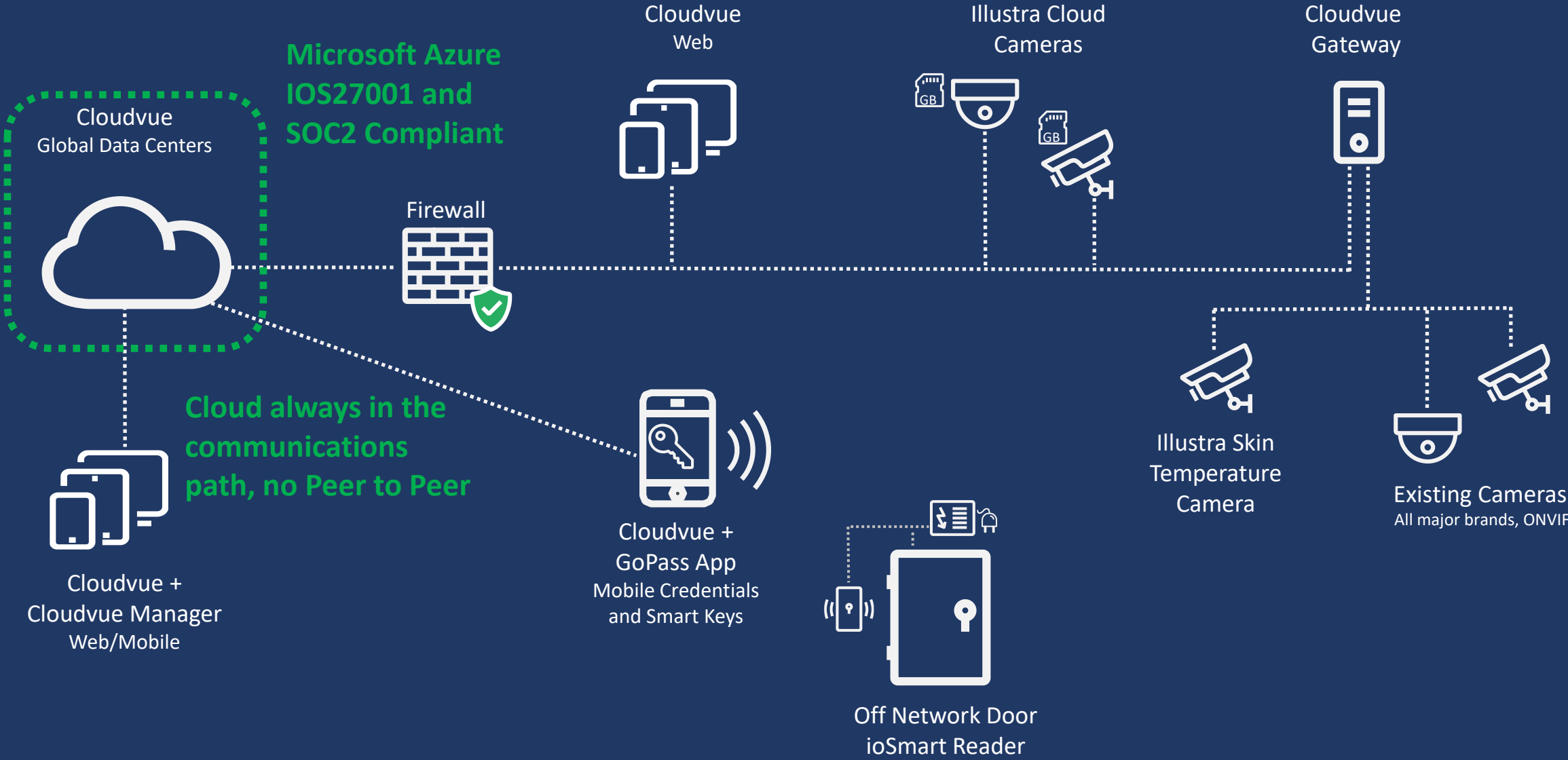


**Cameras hidden behind gateway on port 2. Gateway acts as firewall and DHCP server to the cameras.**

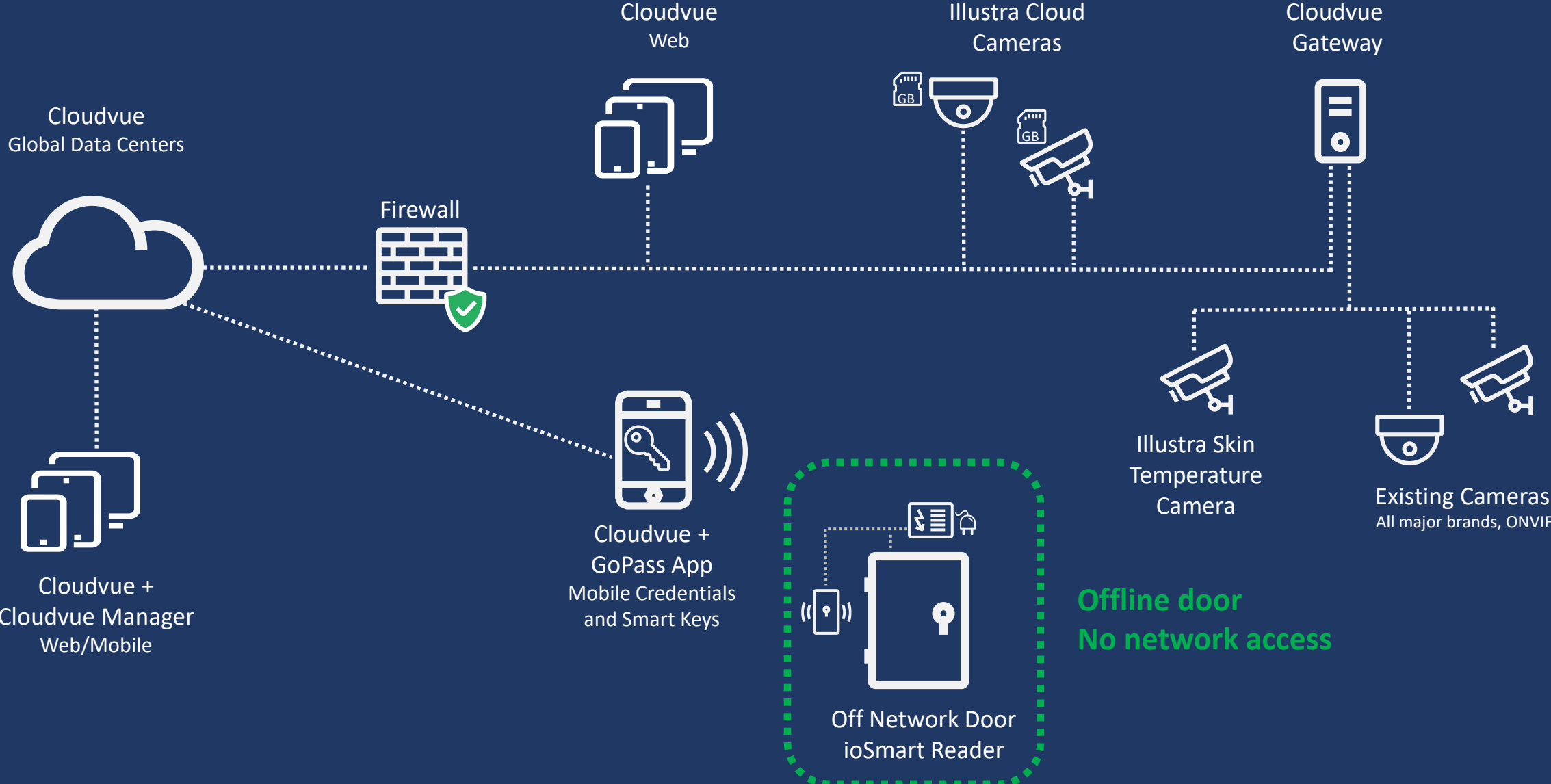
# Cloudvue Solution Architecture



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# Security Features

- Encryption at rest and during transmission
- AES-192-CBC encryption for video security
- TLS 1.2+ encryption for network transport security
- Outbound traffic with return traffic allowed. Devices will not respond to unsolicited inbound requests.
- No Plugins or Flash required
- Strictly enforced strong user passwords
- Every cloud connected device has a complex unique password that rotates at least 4 times per year
- Disable all ports/processes not needed
- HTTPS/SSH only access to services
- Two-factor authentication option
- SSL pinning
- Annual external penetration testing
- Use of trusted certificates



# JCI Cyber Security Program

- Secure Communications Cryptographic Functions
- Third Party Penetration Testing Standard
- Application Threat Modeling Standard
- Open-Source Software Security Audit – Standard Operating Procedure
- Threat Intelligence Program Standard
- Product Security Patching and Updating Documentation Standard
- Vulnerability Management Standard

K Series 16 Cameras

R Series 100 Cameras

T Series 24 Cameras

P Series 32 Cameras

# Networking Requirements

- Minimum upload bandwidth requirement of 64kbps per each Cloudvue Gateway (regardless of how many cameras are connected to the gateway) or per each Illustra Cloud Camera
- Open/allow incoming and outgoing traffic on port 443 (TLS 1.2 or higher) and port 123 for network time protocol (NTP)
- Whitelist the following domains if required: \*.cloudvue.com and \*.blob.core.windows.net.
- Optional setting only required for remote technical support services: open/allow incoming and outgoing traffic on port 7627



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