



# Edge Microgateway

## TLS

# Agenda

- Configure TLS
  - Northbound
  - Southbound
- Lab

# Microgateway and TLS

Microgateway has the ability to

- Terminate TLS for northbound traffic
  - Generate a public certificate and private key
- Execute Two-Way-TLS for southbound traffic
  - Generate a separate public certificate and private key
- Public certificate can be self-signed in both cases

# Configure TLS on Microgateway - Northbound

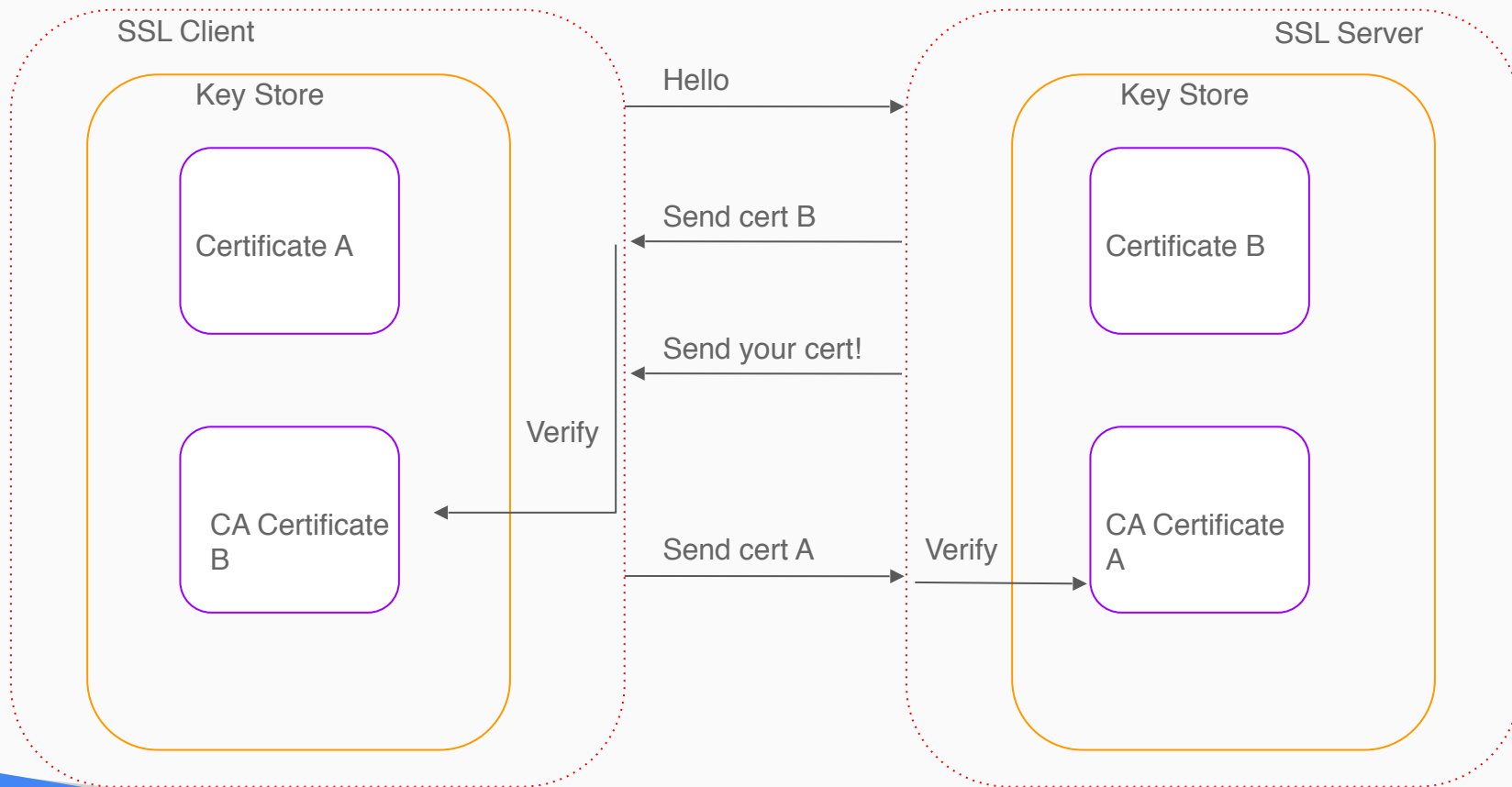
- 1) Create a certificate and private key
- 1) Update the Microgateway config file
- 1) Restart Microgateway - manually or auto-reload

# Configure TLS on Microgateway - Northbound

```
edgemicro:
  ssl:
    key: <absolute path to the SSL key file>
    cert: <absolute path to the SSL cert file>
    passphrase: admin123 #option added in v2.2.2
    rejectUnauthorized: false #option added in v2.2.2
```

Full list of TLS options are located [here](#)

# Two-Way-TLS



# Configure Two-Way-TLS on Microgateway - Southbound

- 1) Create a certificate and private key
  - a) Microgateway will present this certificate to the target server
  - b) This certificate may need to be uploaded in the target server's trust store
- 1) Update the Microgateway config file with public certificate and private key
- 1) Restart Microgateway

# Configure Two-Way-TLS on Microgateway - Southbound

```
targets:  
  host: 'myserver.example.com' #OPTIONAL  
  ssl:  
    client:  
      key: /Users/myname/twowayssl/ssl/client.key  
      cert: /Users/myname/twowayssl/ssl/ca.crt  
      passphrase: admin123  
      rejectUnauthorized: false
```

Full list of TLS options are located [here](#)



# Configure Two-Way-TLS on Microgateway - Southbound

- 1) Create a certificate and private key
  - a) Microgateway will present this certificate to the target server
  - b) This certificate may need to be uploaded in the target server's trust store
- 1) Create the pk12 certificate from the certificate and private key above
- 1) Update the Microgateway config file with pk12 cert
- 1) Restart Microgateway

# Configure Two-Way-TLS on Microgateway - Southbound

```
targets:  
  host: 'myserver.example.com' #OPTIONAL  
  tls:  
    client:  
      pfx: /Users/myname/twowayssl/ssl/client.pfx  
      passphrase: admin123  
      rejectUnauthorized: true
```

Full list of TLS options are located [here](#)

# Update TLS Certificates

- With Microgateway auto-reload you can update the TLS certificates on the server and Microgateway will pick up the changes after 5 minutes (default setting)

# Microgateway Labs

Complete the following Edge Microgateway Labs.

- [Lab](#) - Setup TLS Northbound

THANK YOU