

OVERVIEW AND ARCHITECTURE

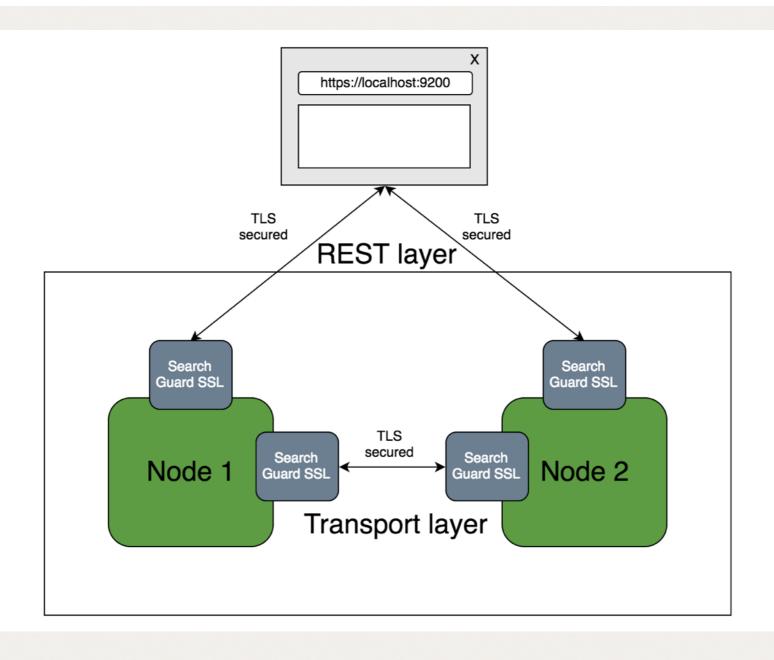
IN A NUTSHELL

- Search Guard is an Open Source security plugin for Elasticsearch
- Provides TLS encryption on the transport and REST layer
- Fine-grained access control for indices, types and fields
- Pluggable authentication methods
 - ► LDAP, Active Directory, SPNEGO/Kerberos, Internal
- Document- and Field-level-security, audit logging

SECURING YOUR TRAFFIC

- Provided by Search Guard SSL
 - Responsible for TLS on REST- and transport layer
 - ► Encrypt inter-node and HTTP traffic
 - Make sure nobody tampers with your data
 - Make sure only trusted nodes join the cluster
- Supports OpenSSL for improved performance

SEARCH GUARD SSL



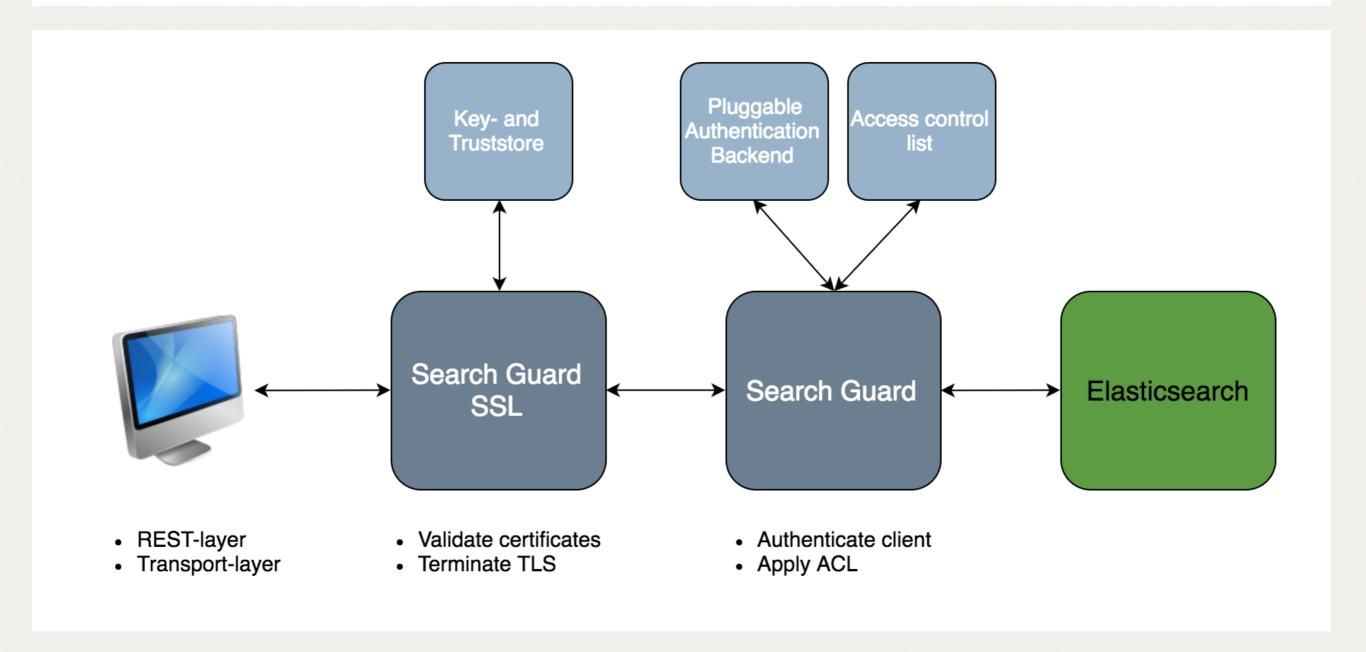
SEARCH GUARD SSL

- Runs stand-alone
- Completely free and Open Source
- Simple authentication by client certificate possible
- ► Foundation for Search Guard

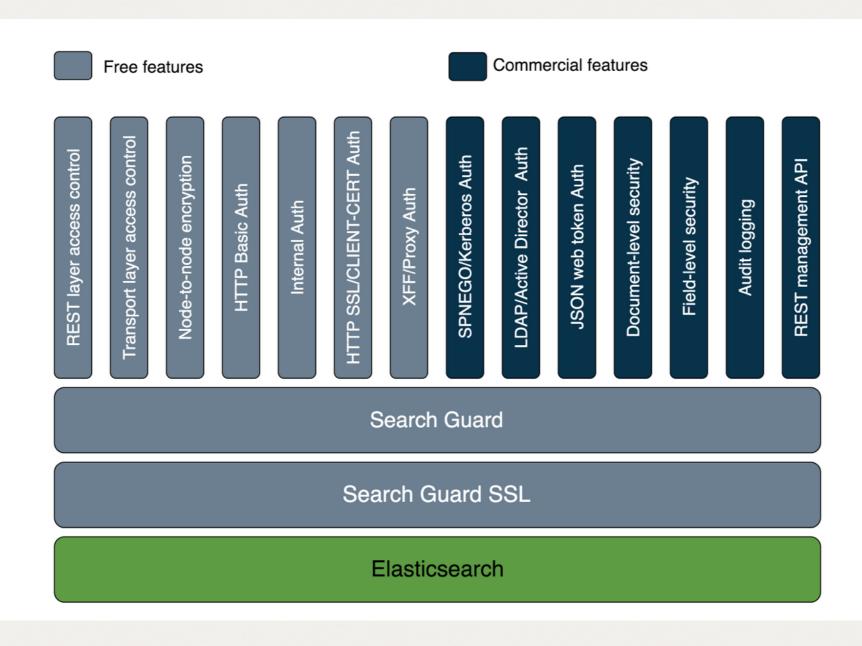
SEARCH GUARD

- Provides pluggable authentication and authorisation modules
 - ► LDAP, Active Directory, Kerberos, JSON web token ...
 - Proxy and XFF support, User impersonation
- Fine grained access control on index and type level
 - Wildcard support
 - ► Full support for (filtered) index aliases

ARCHITECTURE



PLUGGABLE MODULES



ADVANCED FEATURES

- Document-level security (DLS)
 - Restrict access to certain documents, based on regular queries
 - Queries can include user information, e.g. username
- Field-level security (FLS)
 - Restrict access to certain fields in documents
- Audit logging
 - Log malicious access attempts

INTEGRATIONS

- Search Guard integrates with
 - Kibana
 - Logstash
 - Beats
- More integrations will follow

FURTHER READINGS

- Overview
 - https://floragunn.com/searchguard/
- Licensing and Support
 - https://floragunn.com/searchguard/searchguard-license-support/
- Documentation
 - https://github.com/floragunncom/search-guard-docs

LEGAL

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Search Guard is an independent implementation of a security access layer for Elasticsearch. It is completely independent from Elasticsearch own products.