



TIBCO® BPM Enterprise

Security Guidelines

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Introduction

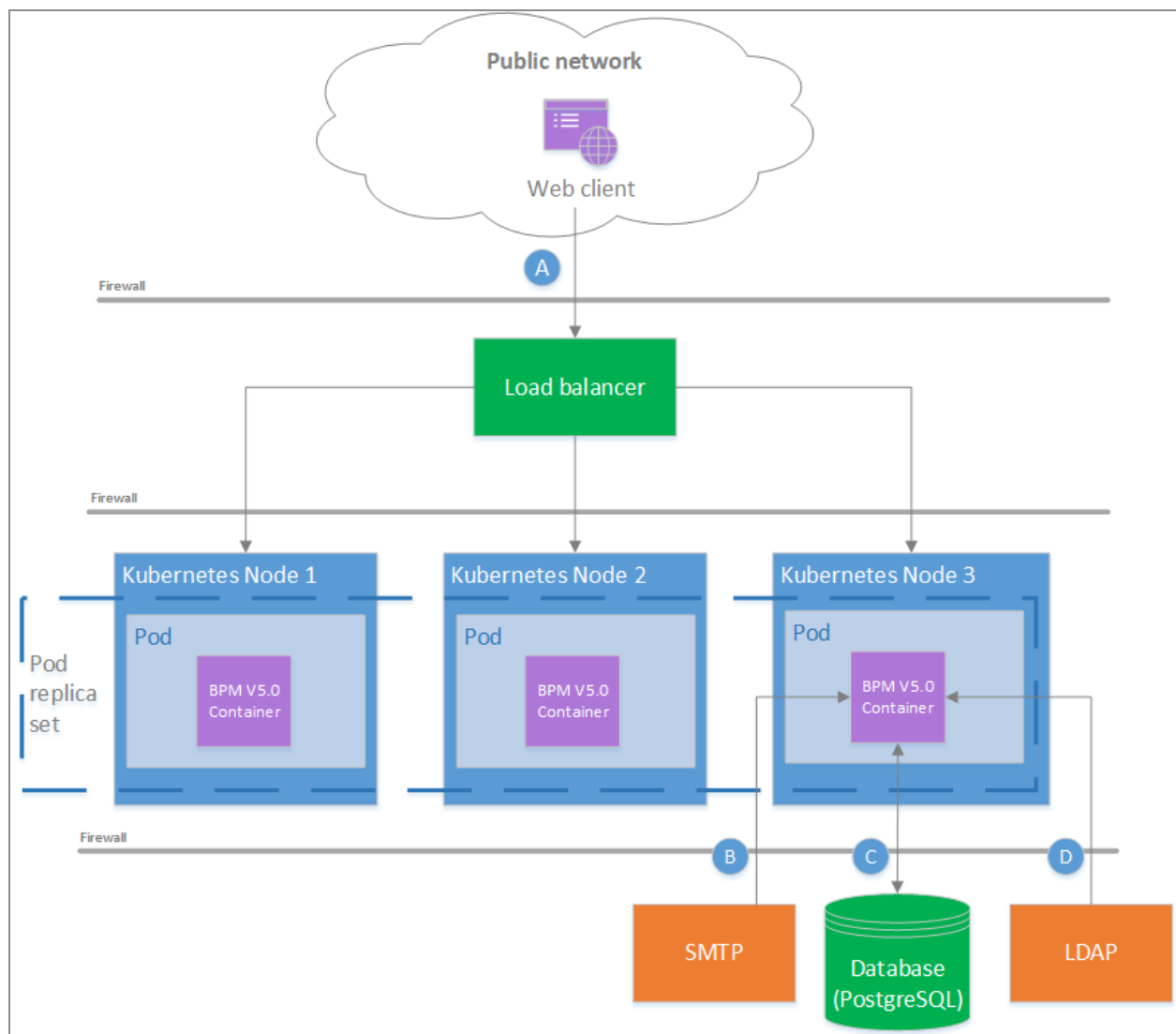
This security guidelines document describes the guidelines for a secure operation of TIBCO® BPM Enterprise. In addition, it provides security-related guidance and recommendations for external communication including communication with the database, and with the end-user interface.

Secure Communication Channels

All TIBCO BPM Enterprise communication must be carried out through secure communication channels. The channels must be secured by a combination of authenticated and authorized access and encryption of data.

By default, some communication channels are not secure. However, they can be secured by configuring the channels to use either HTTPS or TLS.

The following diagram illustrates the basic TIBCO BPM Enterprise communication channels:



The following table describes the communication channels, configuration details, along with the references for additional information:

Flow	Communication Channel	Configuration	Description
A	Web client - Load balancer	Configure the load balancer to use HTTPS.	<p>This is the communication from the client's browser to the load balancer or ingress controller that is used by the hosting Kubernetes system.</p> <p>For details, see the documentation for your external load balancer or ingress controller.</p>
B	TIBCO BPM Enterprise uses SMTP server with TLS	This is done by configuring an SMTP shared resource.	<p>The configuration to establish communication with the SMTP server used by TIBCO BPM Enterprise.</p> <p>For details, see <i>TIBCO® BPM Enterprise Administration</i>.</p>
C	TIBCO BPM Enterprise Database with TLS		<p>This is the database connection configuration used by TIBCO BPM Enterprise.</p> <p>For details, see <i>TIBCO® BPM Enterprise Installation</i>.</p>
D	TIBCO BPM Enterprise uses LDAP with TLS		<p>This is the connection configuration for the required LDAP server used by TIBCO BPM Enterprise.</p> <p>For details, see <i>TIBCO® BPM Enterprise Installation</i>.</p>

Kubernetes Security Recommendations

For a secure TIBCO BPM Enterprise operation, it is necessary to secure operations of the Kubernetes environment in which you execute TIBCO BPM Enterprise. There are no TIBCO BPM Enterprise-specific security aspects for using Kubernetes. Some of the Kubernetes security recommendations include:

- Run containers as a non-root user
- Enable role-based access
- Enable TLS for each component
- Scan container images
- Monitor logs
- Rotate encryption keys and certificates
- Additional security measures for etcd cluster

When configuring Kubernetes, conform to the most updated security best practices. For details about how to secure operations on Kubernetes, see the latest Kubernetes documentation and other related resources.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The documentation for this product is available on the [TIBCO® BPM Enterprise Product Documentation](#) page.

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- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

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requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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