hybris deployment accelerator

The Windows Azure solution distributed in this package provides you with a free platform ready to host a scalable hybris deployment in the cloud. It enables you to rapidly move your existing solution to the cloud or just get an idea of how hybris can be hosted on Windows Azure in no time.

This document gives an overview of the architecture of the hybris deployment accelerator as well as an insight in what Windows Azure resources are used to provide the scalable hybris platform.

Why you should chose the hybris deployment accelerator:

- Easy provision and management of a high available and scalable hybris cluster installation
- Cost reduction using automatic scaling features of Windows Azure
- The accelerator has been successfully tested
- It is already used by well known companies hosting international eShops

- Support of test and production scenarios
- Customized maintenance page to avoid down time
- Live tracing of hybris logs
- Individual configuration using java applications or command line scripts
- Comfortable hybris update workflow

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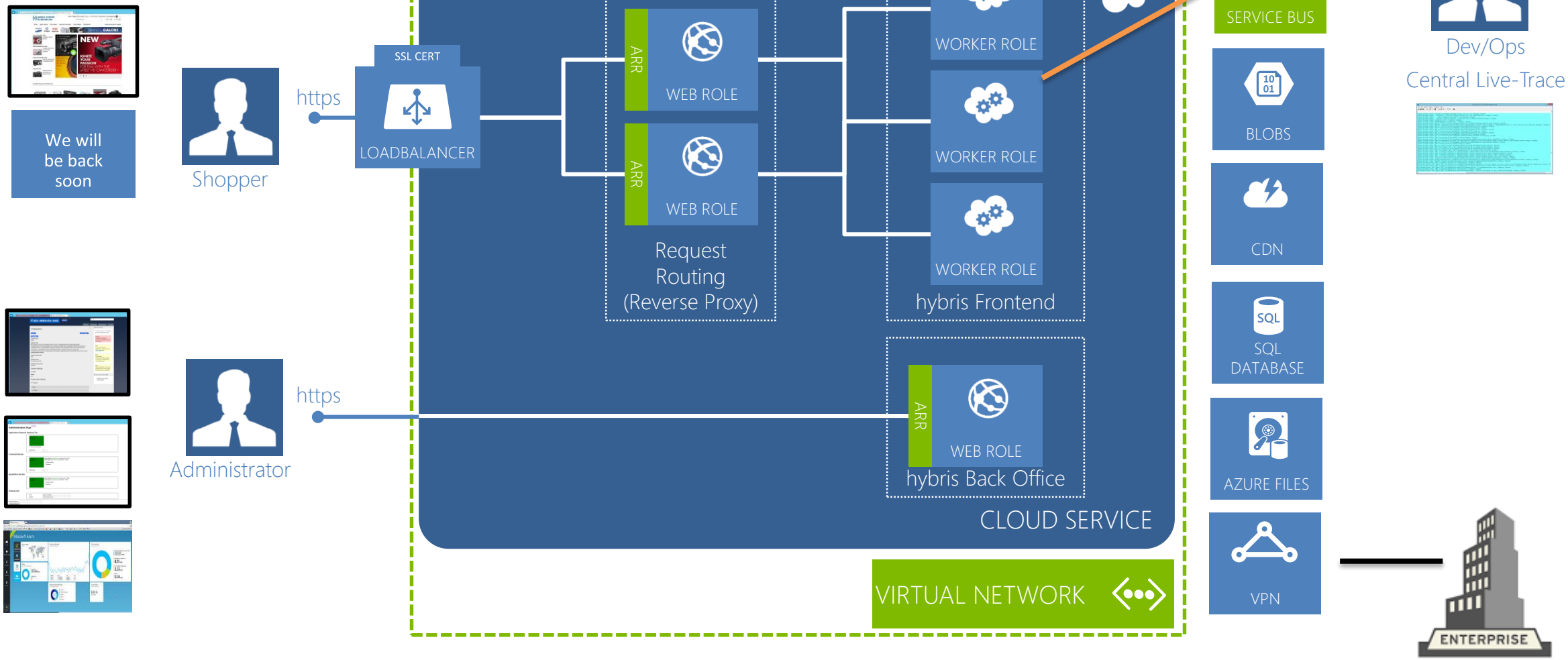

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The hybris deployment accelerator provides a **two tier** setup within a **virtual network** inside Windows Azure. This network can be connected to an onsite local network to **connect hybris to on premise services**.

The Application Request Routing tier consists of Microsoft **IIS web servers** that provide a **session affinity** towards the servers running hybris and serve only to machines on which hybris is **available**. These servers can also redirect traffic to a **customizable maintenance web page** to avoid requests to hybris while updating.

The Frontend Worker tier consists of **Windows 2012 R2 Servers hosting hybris**. On startup these servers automatically download and install all components necessary to run hybris. The **setup process can be customized** using command line scripts or custom java applications.
One server in this tier is the „**Back Office Worker**“ which provides access to hybris‘ management consoles and runs scheduled management tasks. The amount of Back Office Workers can not be changed.

Static hybris content is stored in and delivered from a **Windows Azure Blob Storage** to reduce workload on all servers. The hybris database is hosted in a scalable **SQL Azure database**.

The status of the system can be observed using the **status page**. This page provides also **scaling** capabilities. Hybris logs can also be monitored using a live tracing via **Windows Azure Service Bus**.

Windows Azure Assets

Virtual Network - used to organize and address servers inside the deployment.
Can be used to connect to on premise services.

SQL Azure Database - used as database tier for hybris database. As an alternative a „SQL Always On“ cluster hosted in Windows Azure can be used.

Windows Azure Blob Storage - used for distribution of setup files (mandatory). Also used to deliver static content such as images or style sheets in order to reduce traffic on servers.

Windows Azure Web Role - used as reverse proxy to create session affinity towards servers hosting hybris. It also delivers a customizable web page when deployment is in maintenance mode.

Windows Azure Worker Role - used to host and deliver hybris. One server (BackOfficeServer) delivers hybris administration interfaces on a different endpoint.

Windows Azure Files - used as persistent storage for import/export on the BackOfficeServer

Windows Azure Assets

Windows Azure CDN (optional) - can be used to allow caching of static files closer to customers

Windows Azure VPN (optional) - can be used to connect virtual network in Azure to a local network in order to connect to on premise services.

Windows Azure Service Bus - used to transmit traced messages on server startup and hybris log output to a local console output on your computer. Provides live monitoring of running servers.