CloudShell 7.1 GA SDK

Installation Guide

Release Date: January 2017

Document Version: 1.0

Quali

Legal notice

Contents

Overview

This document describes how to download the CloudShell SDK appliance and create a virtual machine (VM) containing CloudShell SDK from the image that it provides.

The CloudShell components that are provided in the VM are:

- Quali Server
- CloudShell Portal
- TestShell Execution Server
- CloudShell License Server
- Database server (based on SQL Express Server 2012)
- CloudShell Sandbox API

Hypervisor Requirements

- Hypervisor tool that supports the deployment of OVA images

Prerequisites

- License for the Windows Server 2012 R2 operating system installed in the VM
- CloudShell floating license (with a license for the Quali Server component plus licenses for any other required CloudShell component)

Installation Procedure

To install and configure CloudShell SDK Virtual Appliance:

1. Download the OVA containing the CloudShell SDK image from the Quali Community Developer Center, as explained in Download the Virtual Appliance Image.

2. Create a VM using the OVA image you downloaded, as explained in Creating a VM Using the OVA Template.

2. Perform the post installation steps described at Post Installation.

Download the Virtual Appliance Image

To download the installation files:

1. In the Quali Community Developer Center, click the **Download CloudShell** button on the right side of the page.
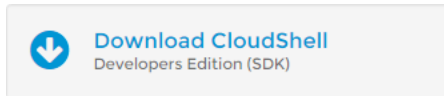
Note: Registration to the Quali Community is required. If you have not registered, you will be prompted to register.

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2. Download the files into a temporary location on your local machine.

   A ZIP file is downloaded, containing the OVA image file, user guide and a read me file with the CloudShell activation key.

Creating a VM Using the OVA Template

You can use any hypervisor tool that supports the use of OVA images, including open source hypervisors such as VMware Workstation Player.

To create a VM by deploying the OVA template:

1. Using your hypervisor tool, deploy the VM using the OVA image you downloaded.

2. When the VM's deployment completes, verify the deployment by powering on the VM and

opening the VM console.

The **Settings** screen is displayed.

3. Next, follow the Post Installation procedures to set up the new VM and register CloudShell.

Post Installation

These steps are performed once only, at the time when first starting the VM and when first logging into CloudShell portal.

Setting up the New VM

To set up the new VM:

1. Open the hypervisor tool you used to deploy the VM.

2. If needed, power on the new VM.

3. Open the VM console. In the console, the operating system starts to load.
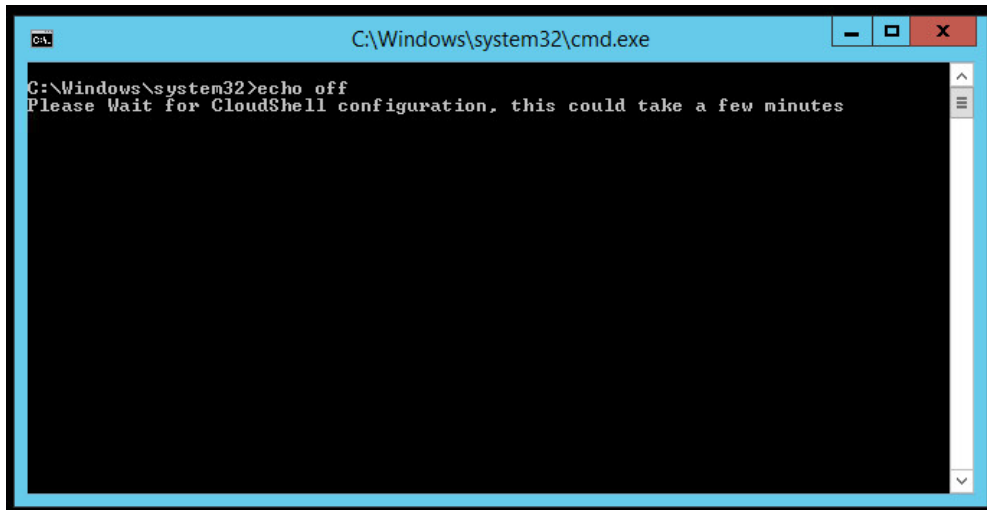
   The **Settings** screen is displayed.
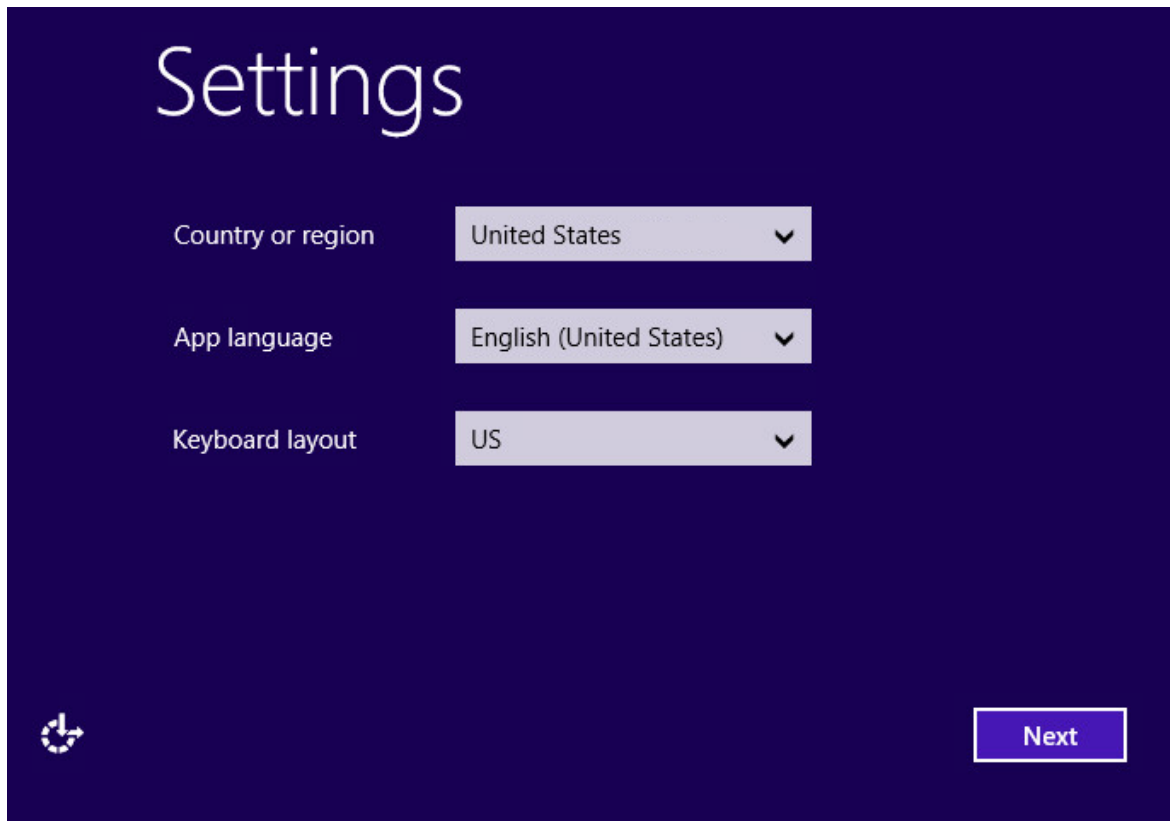
4. Respond to the operating system setup prompts.

5. Create a username and password as administrator.

6. Log in to the newly created VM as administrator.

   The initial CloudShell configuration runs in the background.

7. Next, log in to CloudShell Portal remotely and apply the CloudShell license as described in Applying the CloudShell license.

Applying the CloudShell License

To remotely access CloudShell portal and apply the CloudShell license:

1. Open a browser on a networked machine and specify the URL based on the IP of the newly created VM. To find the IP, log in to the VM, open command-line and run the `ipconfig` command.

   The VM does not have a CloudShell license and therefore the **Activate CloudShell** page is displayed.

   (The IP in the URL in the following image is for illustration purposes only.)
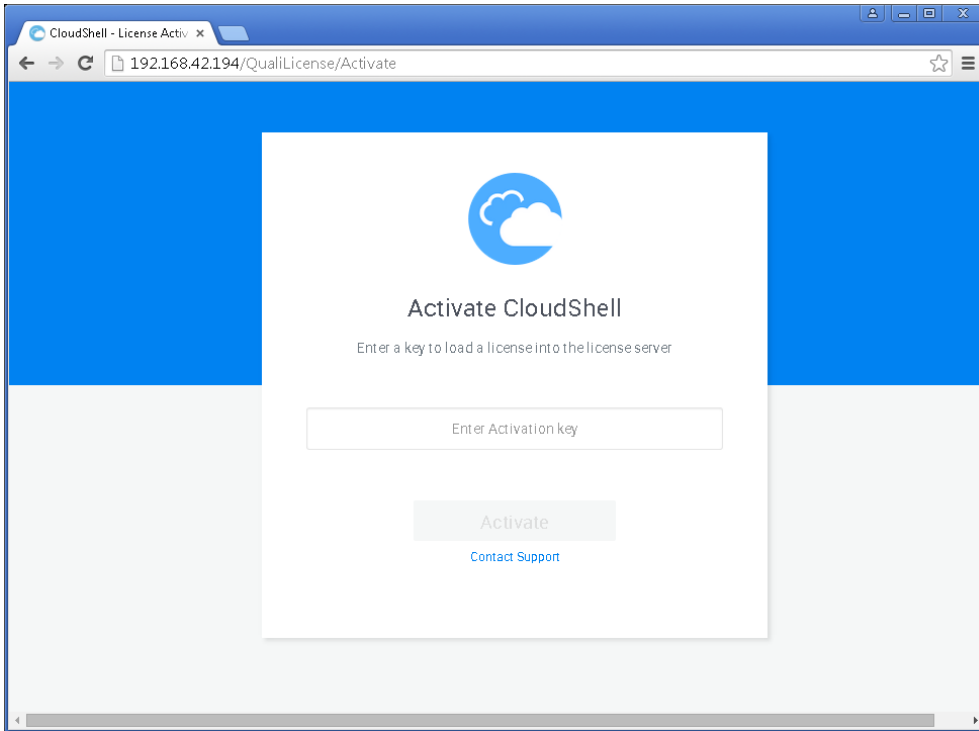
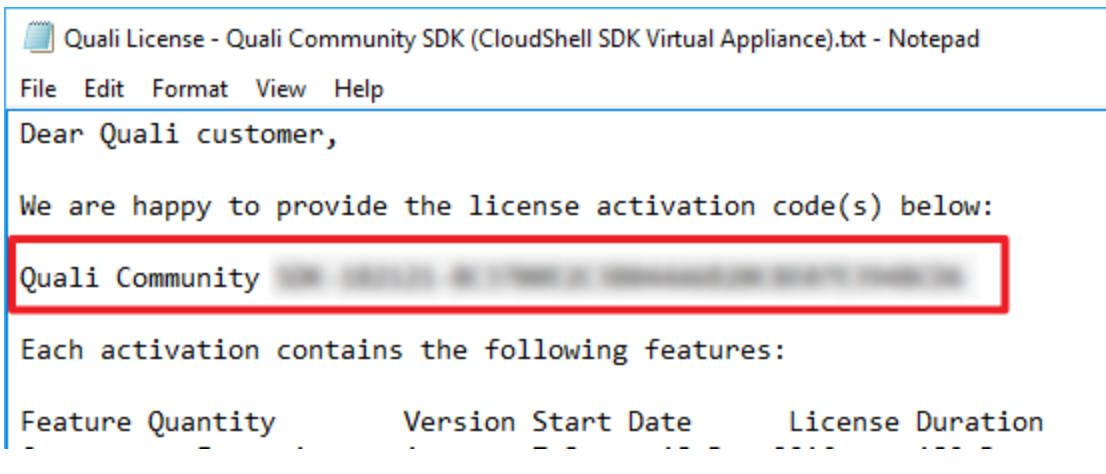2. Enter the CloudShell license in the Enter Activation Key field.

   Note: The license is included in the read me file of the ZIP file you downloaded from the Quali Community Developer Center, and starts with the words "Quali Community". For example

3. Click .

4. Follow the prompts to complete the CloudShell configuration.
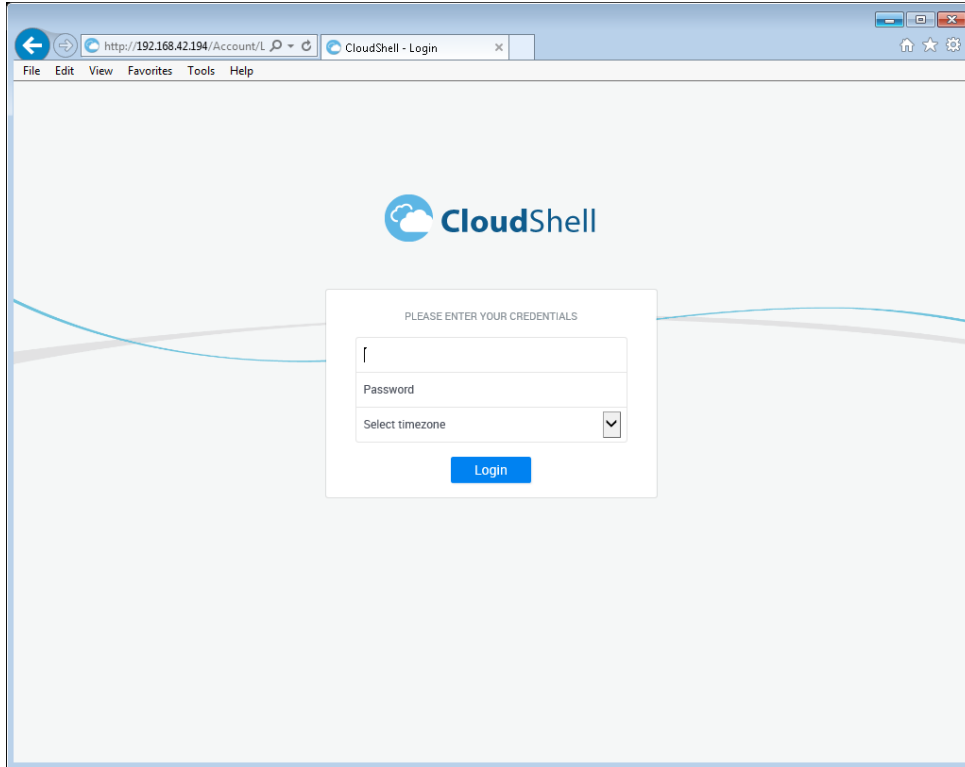
5. In the Login screen, enter the default user credentials (Username: "admin", Password: "admin") and select the time zone.

6. Click **Login**.

When the procedure completes, Cloudshell is set to run in a standalone configuration.

Using the Virtual Appliance to work with CloudShell

After performing the post installation steps, the Virtual Appliance is available to you for use with the CloudShell products, such as CloudShell SDK and CloudShell Portal.

Launching CloudShell Portal

To launch CloudShell Portal:

- If you are working in the VM, double-click the **CloudShell Portal** icon on the desktop, or open a browser and specify **localhost** in the URL address field and press **Return**. The browser automatically populates the balance of the URL.

- If you are working on a machine outside the VM, ensure that the VM is on, open a browser and specify the IP of the VM in the URL address field and press **Return**. The browser automatically populates the balance of the URL. By default port **80** is used.

Working with CloudShell Portal and Other CloudShell Components

When the virtual appliance is installed and configured and if you need to access the VM to define configuration or use the CloudShell client products, such as CloudShell Portal, you can access the VM using Remote Desktop Protocol (RDP) or from the hypervisor console.

General Information

When prompted to specify the database parameters in the Quali Server configuration wizard, perform the following steps:

1. Clear the Windows authentication check box so that this option is not used.

2. CloudShell configuration runs using the following SQL authentication:

   User: SA

   Password: Qwer$321

   Role: Sysadmin