

Kofax Kapow 10.3 Training and Certification

Module 14 – Introduction to Device Automation

Installation and Configuration

**Kofax
Kapow™**



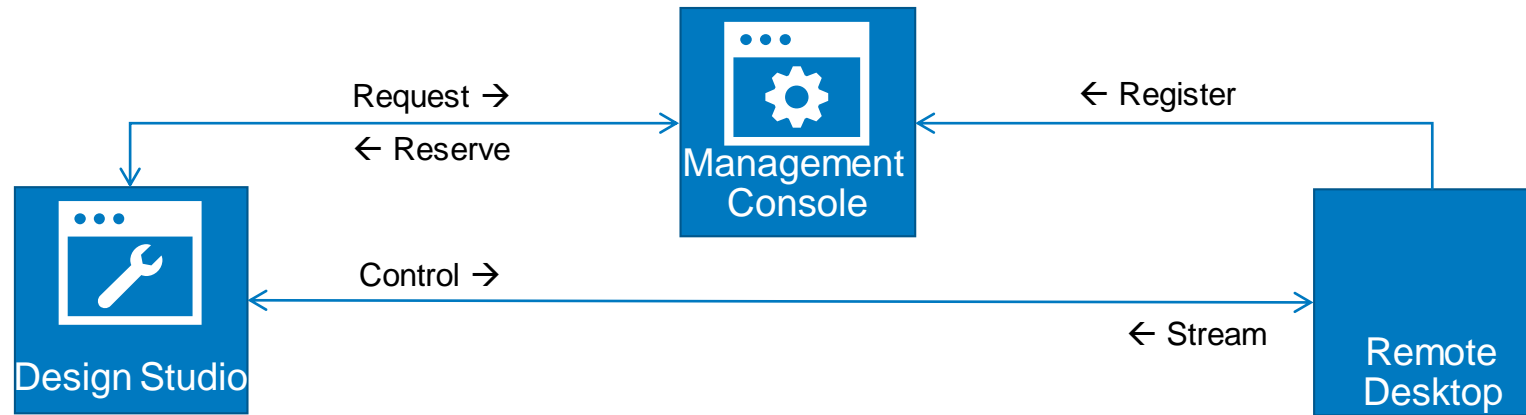
What is Device Automation?



- ◆ Kapow's Device Automation feature helps you create robots that can automate native Windows and Java applications on your network computers.
 - ◆ Windows Apps (can be used for legacy applications still being used by an organization)
 - ◆ Java Apps
 - ◆ Terminal Emulation (eg. IBM 3270 etc.)
 - ◆ SAP
- ◆ Requires a Desktop Automation license
- ◆ IMPORTANT: Device Automation steps move *FORWARD* only. When you execute a step within a Device Automation step, the remote computer is left in that state.

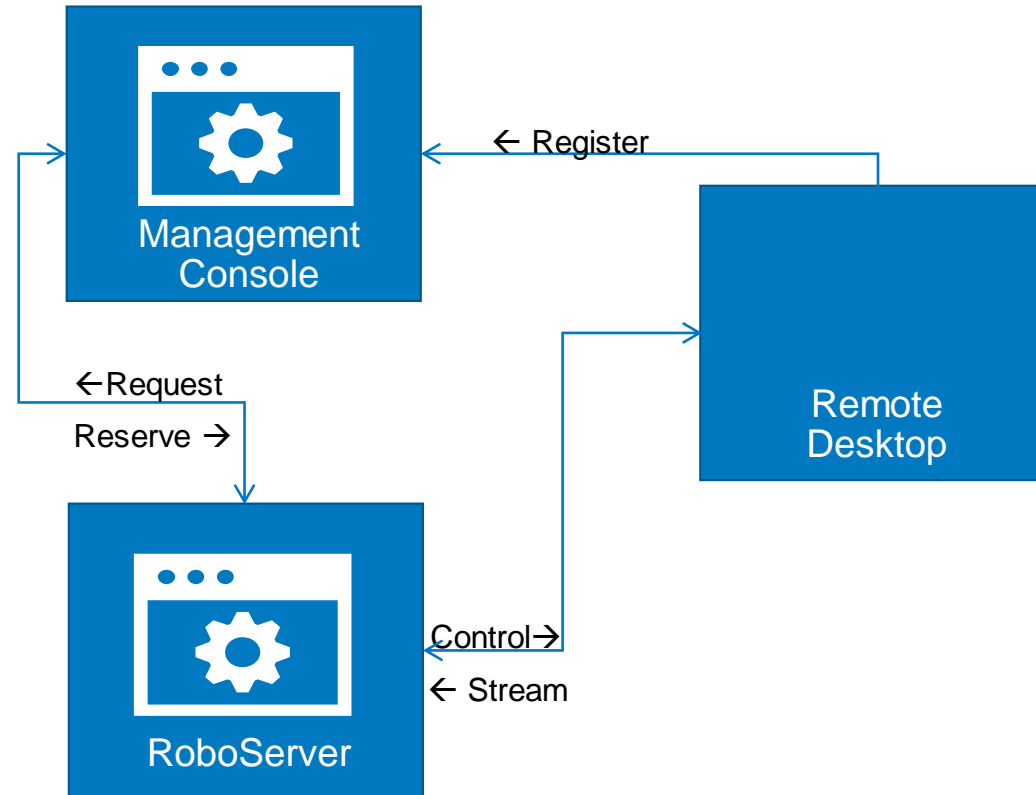
Developing Desktop Automation

Device Automation robots may be executed from the Management Console or through a direct connection to the remote desktop. This is particularly useful in testing.



Running Desktop Automation

To run Device Automation robot on a remote desktop, that remote desktop must first be registered with the Management console. You'll see how to do that shortly.

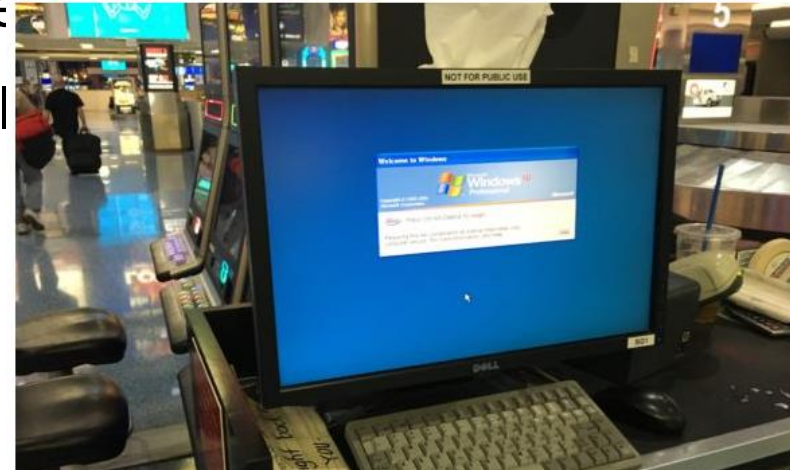


Supported Platforms and Prerequisites

- ◆ Windows x32 & x64 from:
 - ◆ Windows XP SP3
 - ◆ Windows Server 2003 SP2
- ◆ Prerequisites for Device Automation machine
 - ◆ OS should have latest service pack installed
 - ◆ 32-bit JRE or JRK installed
 - ◆ Java Access Bridge enabled
(`jabswitch.exe /enable`)
 - ◆ Windows Update KB2999226 (Update for Universal C Runtime) may be required

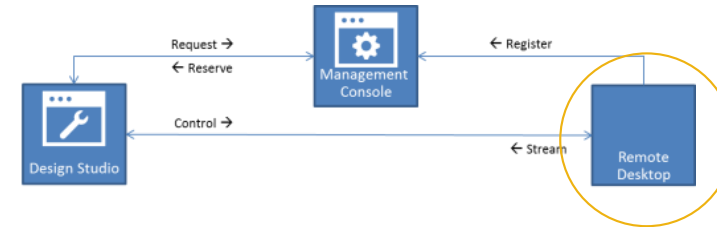
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SAD WINDOWS XP MACHINE SPOTTED AT THE LAS VEGAS AIRPORT



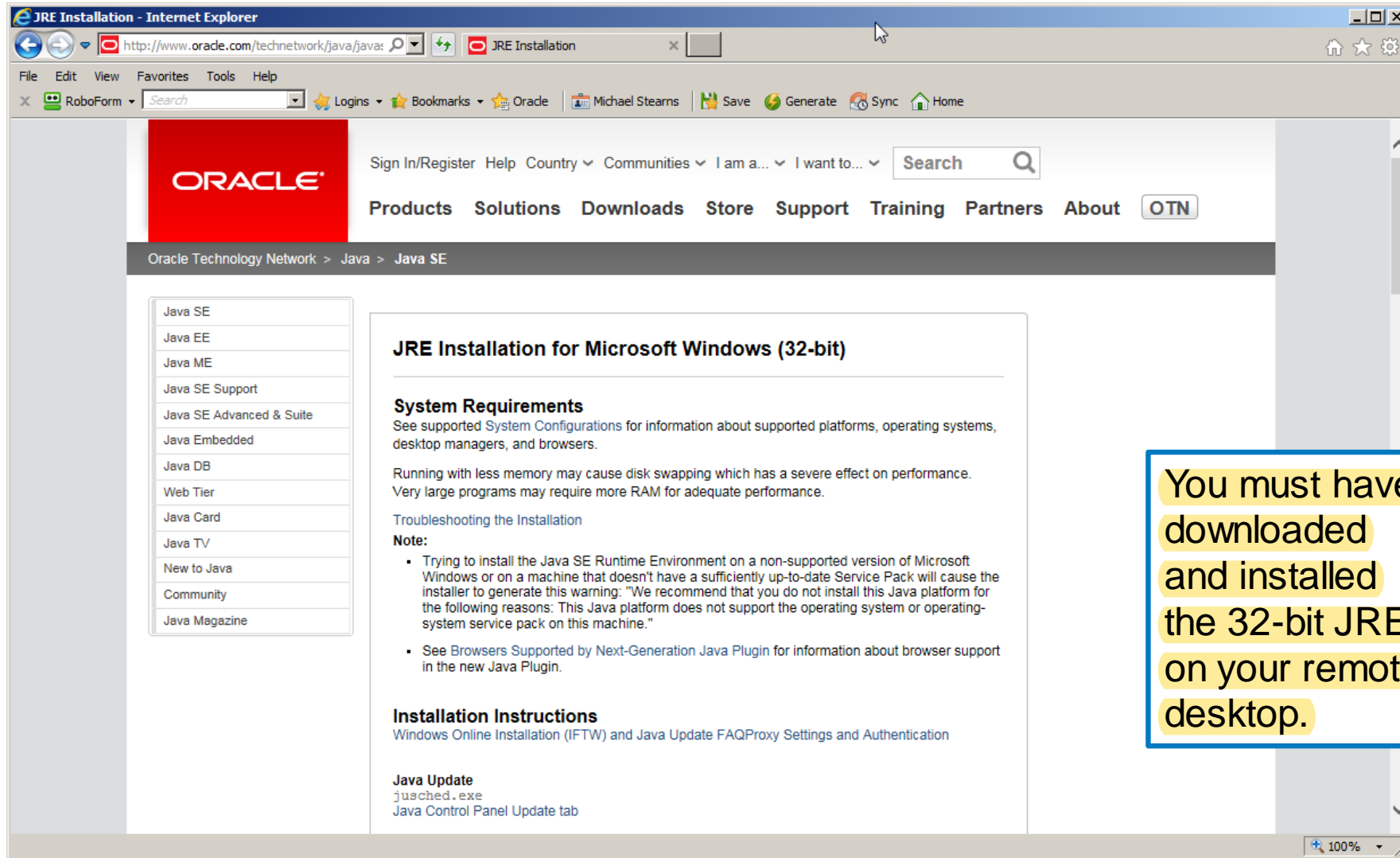
Installing and Configuring on your Remote Machine

1. Meet prerequisites; test connectivity
2. Install the Device Automation Agent
3. Configure Device Automation Service
4. Start the Device Automation Service (automatically added to Startup Group)
5. Check that the Device has registered in the Management Console



Admin > Devices		
<div>Expand All</div> <div>Collapse All</div>		
Cluster/Device	Status	Labels
Production	Running	
kk80beta2.emea.kofax.com:49998	Available	win2003,sap

32 Bit Java Runtime (JRE or JRK) Required



The screenshot shows the Oracle Technology Network (OTN) website in Internet Explorer. The browser's address bar shows the URL <http://www.oracle.com/technetwork/java/javase>. The page title is "JRE Installation - Internet Explorer". The Oracle logo is visible in the top left. The navigation bar includes links for Sign In/Register, Help, Country, Communities, I am a..., I want to..., Search, Products, Solutions, Downloads, Store, Support, Training, Partners, About, and OTN. The breadcrumb trail reads "Oracle Technology Network > Java > Java SE". A left sidebar contains a list of links: Java SE, Java EE, Java ME, Java SE Support, Java SE Advanced & Suite, Java Embedded, Java DB, Web Tier, Java Card, Java TV, New to Java, Community, and Java Magazine. The main content area is titled "JRE Installation for Microsoft Windows (32-bit)". It includes a "System Requirements" section with a link to "System Configurations", a note about memory usage, and a "Troubleshooting the Installation" section. A "Note" section contains two bullet points: one about unsupported Windows versions and another about browser support. The "Installation Instructions" section includes links for "Windows Online Installation (IFTW)" and "Java Update FAQ/Proxy Settings and Authentication". At the bottom, the "Java Update" section lists "jusched.exe" and "Java Control Panel Update tab".

JRE Installation for Microsoft Windows (32-bit)

System Requirements
See supported [System Configurations](#) for information about supported platforms, operating systems, desktop managers, and browsers.

Running with less memory may cause disk swapping which has a severe effect on performance. Very large programs may require more RAM for adequate performance.

Troubleshooting the Installation

Note:

- Trying to install the Java SE Runtime Environment on a non-supported version of Microsoft Windows or on a machine that doesn't have a sufficiently up-to-date Service Pack will cause the installer to generate this warning: "We recommend that you do not install this Java platform for the following reasons: This Java platform does not support the operating system or operating-system service pack on this machine."
- See [Browsers Supported by Next-Generation Java Plugin](#) for information about browser support in the new Java Plugin.

Installation Instructions
[Windows Online Installation \(IFTW\)](#) and [Java Update FAQ/Proxy Settings and Authentication](#)

Java Update
[jusched.exe](#)
[Java Control Panel Update tab](#)

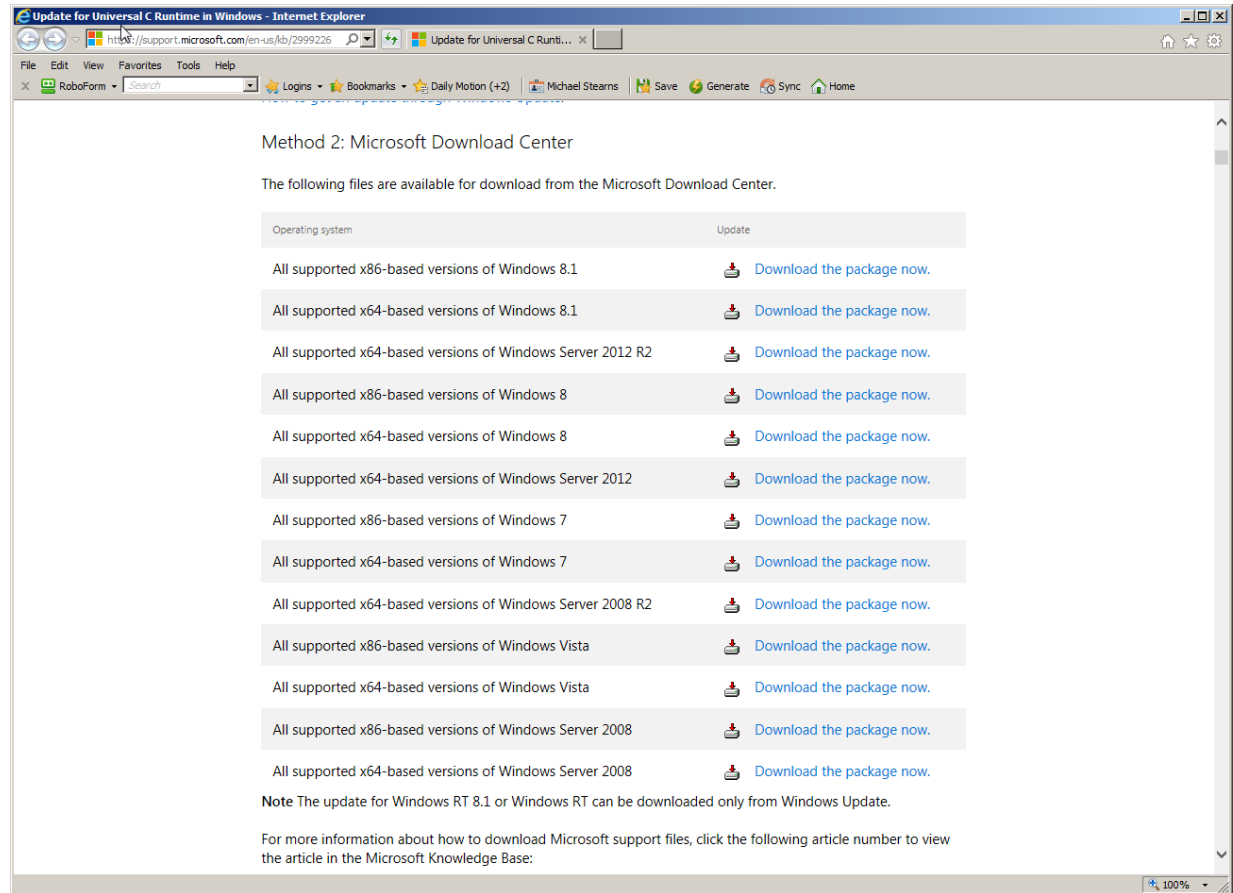
You must have downloaded and installed the 32-bit JRE on your remote desktop.

Enable the Java Access Bridge

- Enable the Java Access Bridge either by selecting the Enable Java Access Bridge option in the
 - ◆ **Control Panel > Ease of Access Center > Use the computer without a display...or by running...**
 - ◆ the following command prompt command in the bin directory of the Java JRE installation directory:
 - **jabswitch.exe /enable**

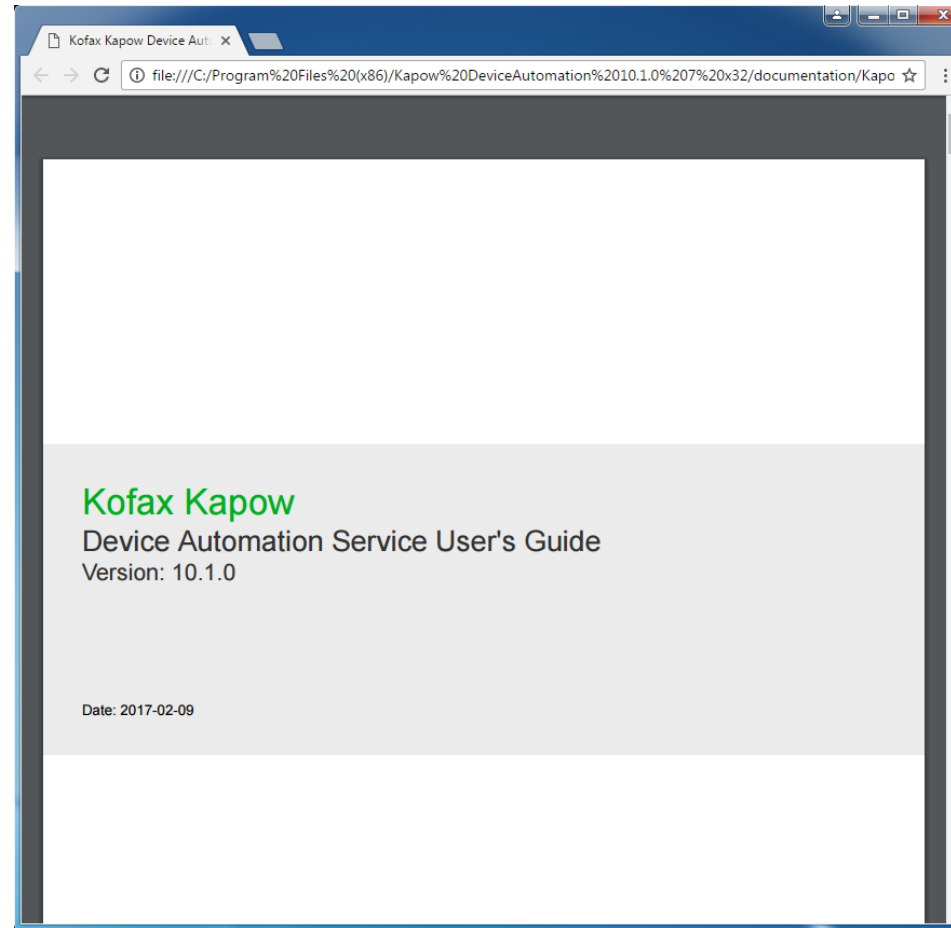
Windows Update May be Required

- ◆ Download and install Windows Update KB2999226 is specific to your OS
- ◆ It is not required for Windows XP or Windows 10



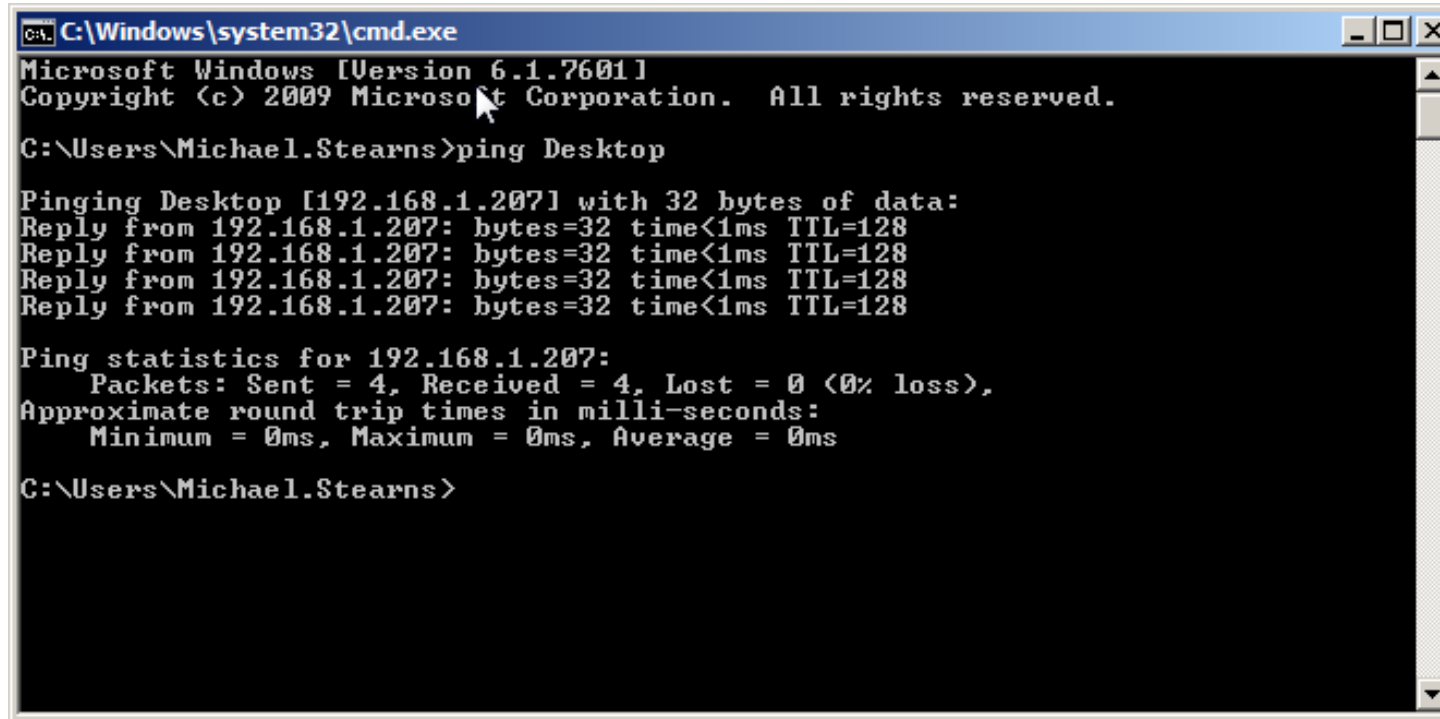
Installation Guide

- ◆ See the Kapow Device Automation Service User's Guide in your documentation for more detailed information.



Test Connectivity

- ◆ Ping your remote device from the machine running the Management Console and Ping the Management Console from your remote device to insure they can communicate with each other.



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Michael.Stearns>ping Desktop

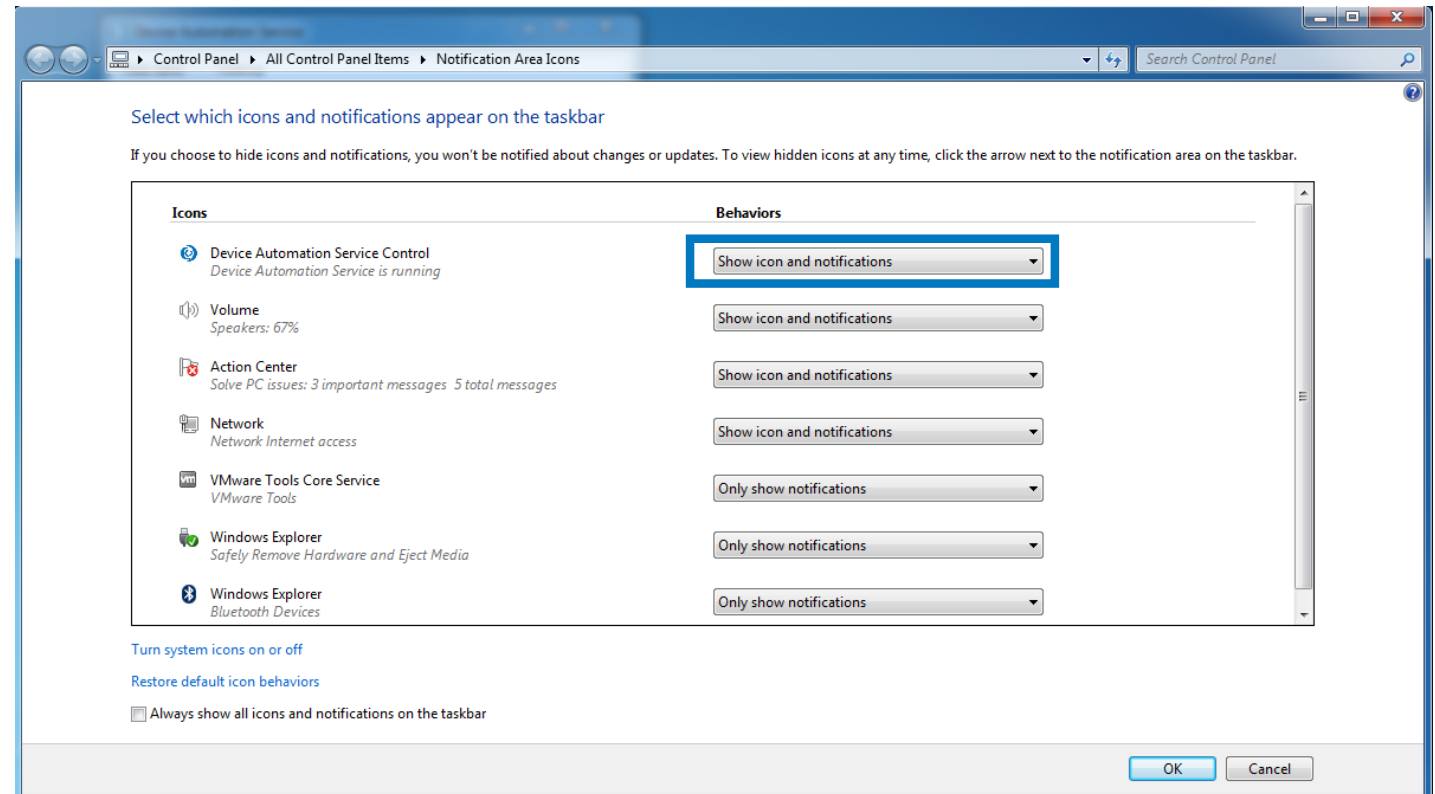
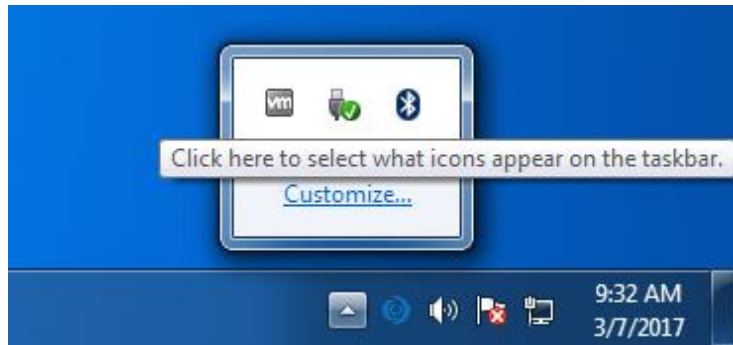
Pinging Desktop [192.168.1.207] with 32 bytes of data:
Reply from 192.168.1.207: bytes=32 time<1ms TTL=128
Reply from 192.168.1.207: bytes=32 time<1ms TTL=128
Reply from 192.168.1.207: bytes=32 time<1ms TTL=128
Reply from 192.168.1.207: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.1.207:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Michael.Stearns>
```

Close Device Automation Service

- ◆ This service has not been configured on your Remote Desktop. You will configure the service in the next step. To begin:
 1. Set the Remote Device Automation Service icon to always display in the system tray...



Service Configuration

Right mouse-click

Stop
Restart
Lock Screen
Configure

9:36 AM
3/7/2017

Name or IP address of remote desktop

Name or IP address of Management Console

Labels (multiple labels must be separated by commas ,)

Device Automation Service

Host name: Desktop

Command port: 49998

Stream port: 49999

CA file:

Timeout: 60

☒ Windows
☐ TN3270
☐ TN5250
☐ VT100 (ssh & telnet)

☐ Single User

Management Console | Single User | Certificates | Windows | Log | OCR

MC Path: http://r90f4tca:50080/

User name:

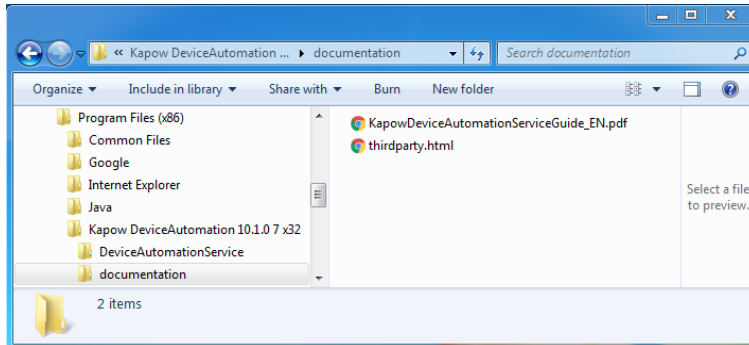
Password:

Cluster: Production

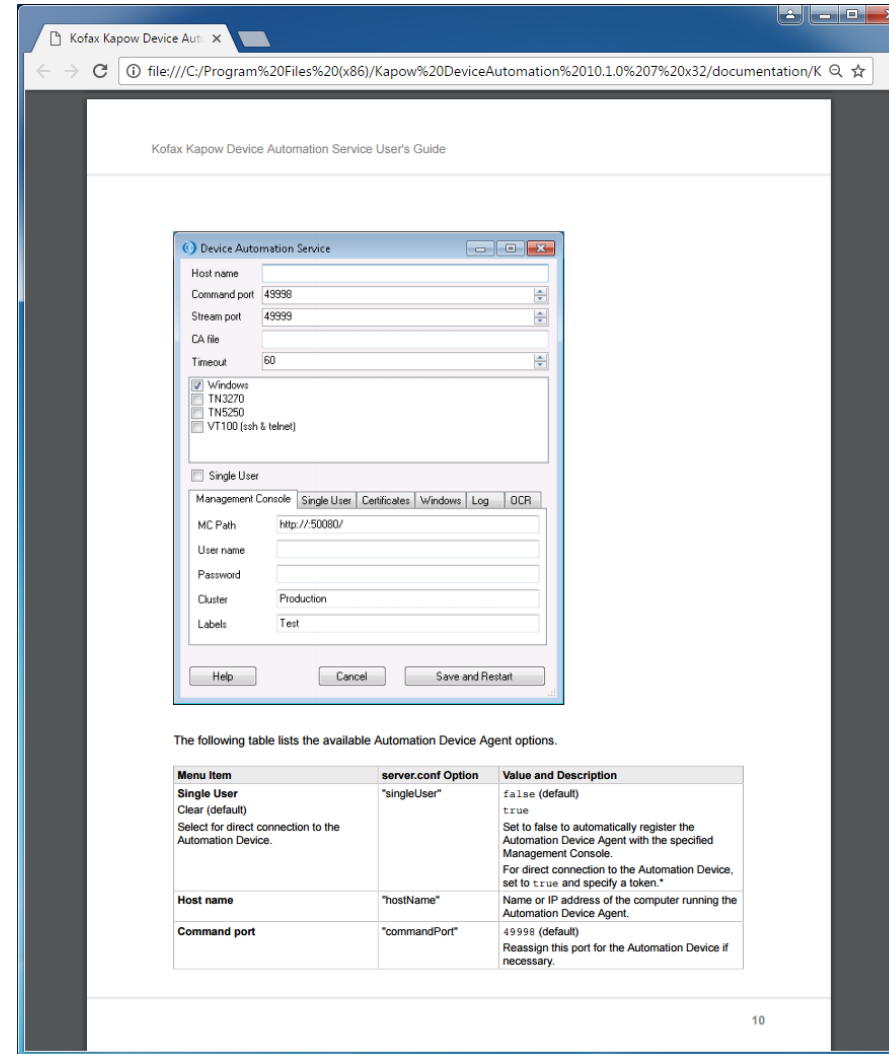
Labels: Desktop,WordPad

Help Cancel Save and Restart

Configuration Documentation








Configuration Settings for the Device Automation Agent can be found in The Device Automation Service User Guide.



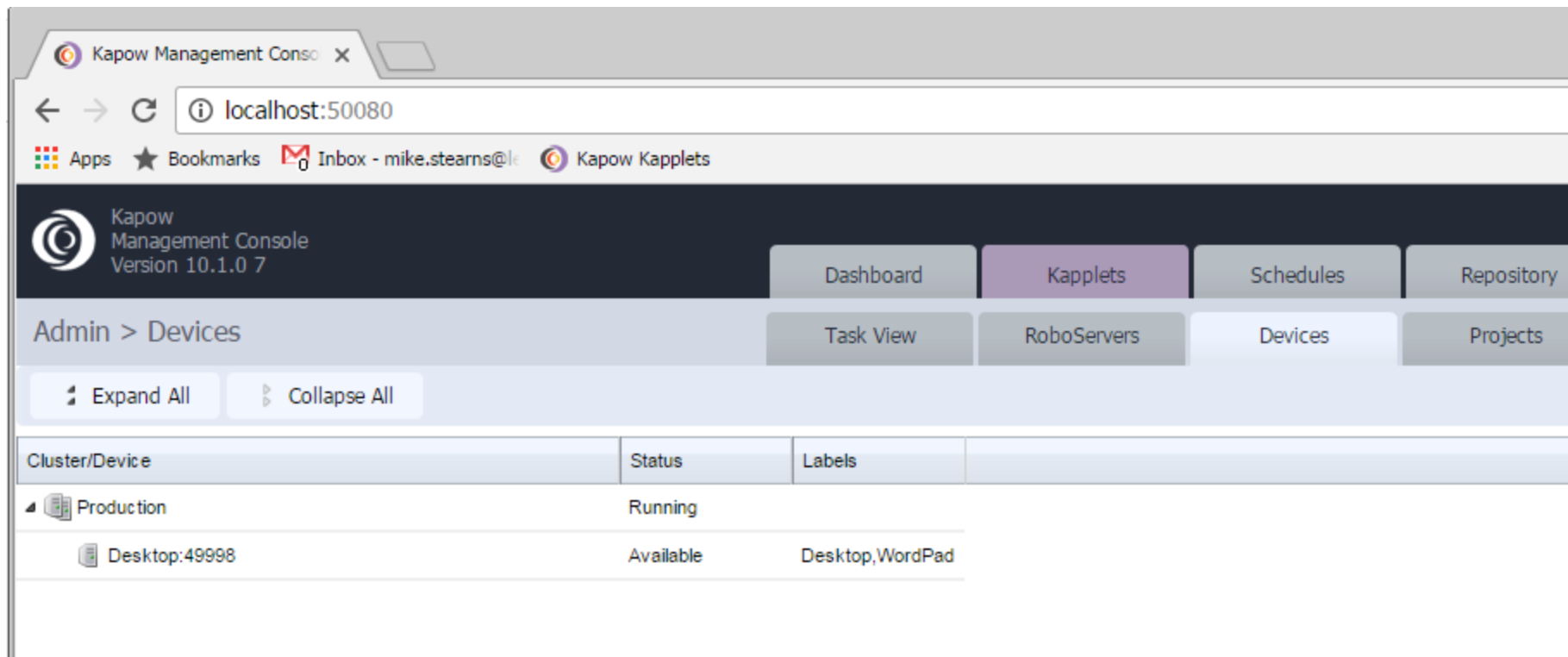
Device Automation Status

- ◆ The run status of the Device Automation Agent is reflected by the system tray icon.

Icon	Status
	Automation Device Agent is starting.
	Automation Device Agent is running and is not connected to a Management Console.
	Automation Device Agent is running and connected to a Management Console.
	Automation Device Agent is not running.
	Automation Device Agent error.

Device Registered with Management Console

- Check in the Management Console of your RoboServer machine to see if your Remote Desktop has been registered. Note that this shows on the Admin tab if you click on the Devices tab and expand the cluster.





Demo & Lab

Device Automation Installation and Configuration