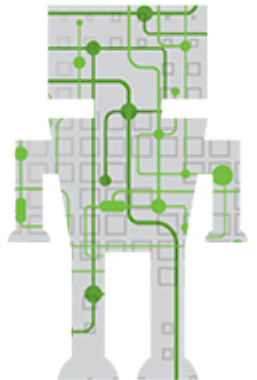


Kofax Kapow 10.3 Training and Certification

# Module 9 – The Development Database and Management Console

Storing Data/Intro to Kapow Administration

**Kofax  
Kapow™**



# Kofax Kapow 10.3 Module Overview

- ◆ An overview of the Development Database
- ◆ Starting the Development Database
- ◆ Mapping Output to Database Table
- ◆ Storing Data in the Database
- ◆ Disabling Steps for Testing
- ◆ Uploading Robot to the Management Console
- ◆ The Management Console: An Overview
- ◆ Running a Robot in Management Console
- ◆ Scheduling Robots
- ◆ Viewing Data in Management Console
- ◆ Performance Graphs
- ◆ Licensing

# The Development Database

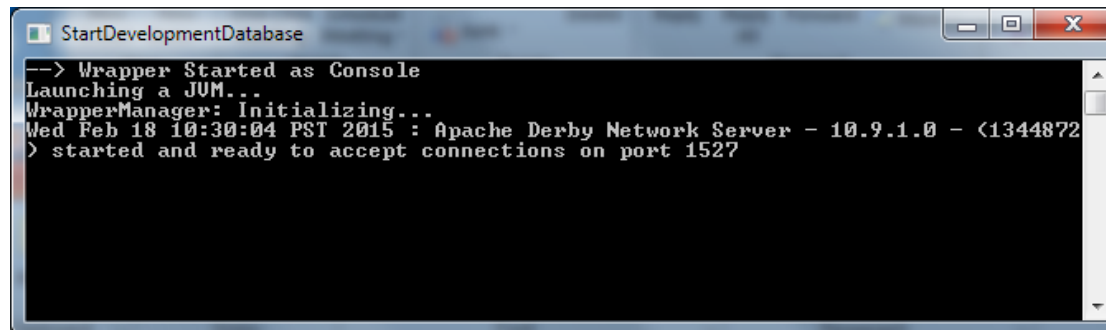


- ◆ Kofax Kapow includes an Apache Derby Development Database
  - ◆ This database is used for training purposes when learning about Kapow
  - ◆ It may also be used for testing, but is not a substitute for a full SQL, Oracle, JDBC etc. database in actual daily use.
  - ◆ IMPORTANT! Any database other than the Development Database requires that a JDBC driver be installed to use it.
- ◆ To use the Development Database, it must first be started.
- ◆ Output variables in your Robot must be mapped to the database.

# Starting the Development Database

- ◆ There are shortcuts in both Windows and Linux versions to start the development database.
  - ◆ On Windows systems, it is in the Kapow 10.x.x\Development Database program group
  - ◆ On Linux systems, it is in the Kapow/bin folder
- ◆ The Development Database connects using port 1527 on both systems
- ◆ You must start the Development database before you can read from or write to it.

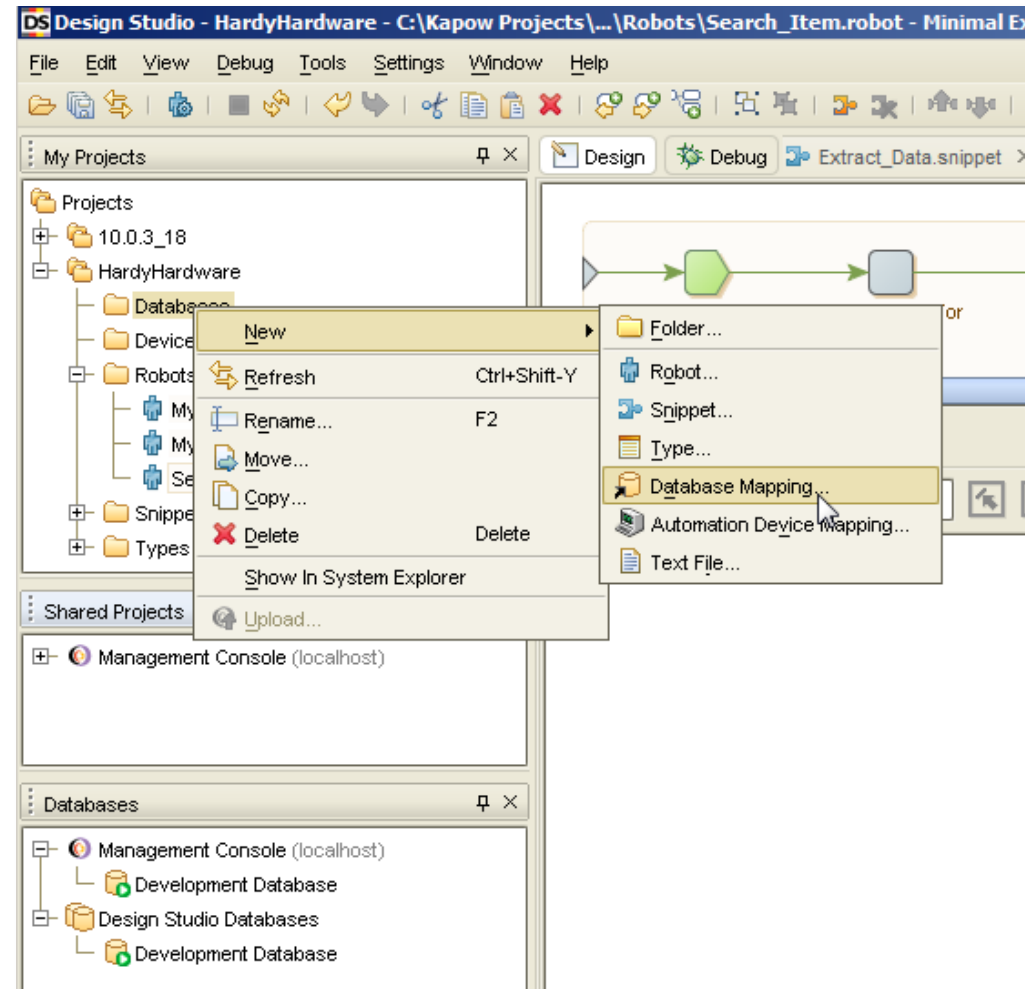
IMPORTANT: Do not close command window or you'll close the connection.



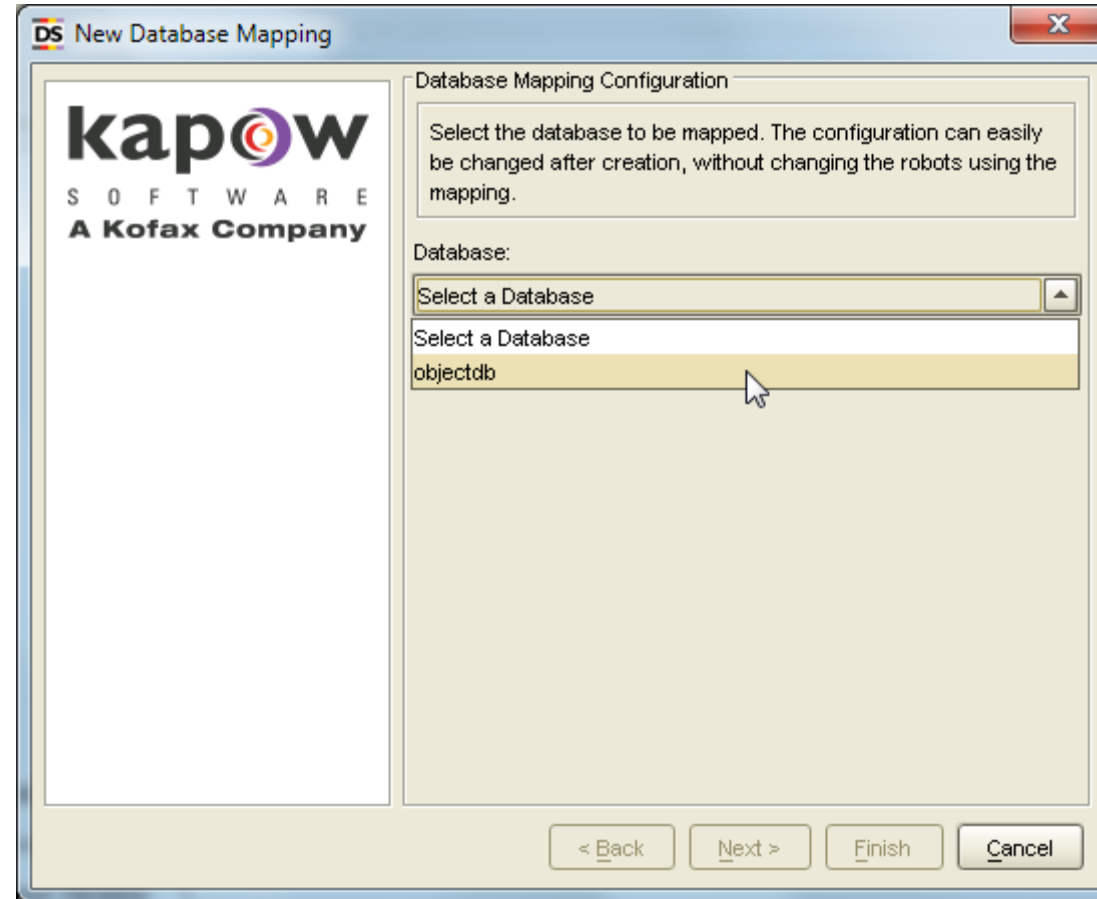
```
--> Wrapper Started as Console
Launching a JUM...
WrapperManager: Initializing...
Wed Feb 18 10:30:04 PST 2015 : Apache Derby Network Server - 10.9.1.0 - <1344872
> started and ready to accept connections on port 1527
```

# Storing Data in the Database

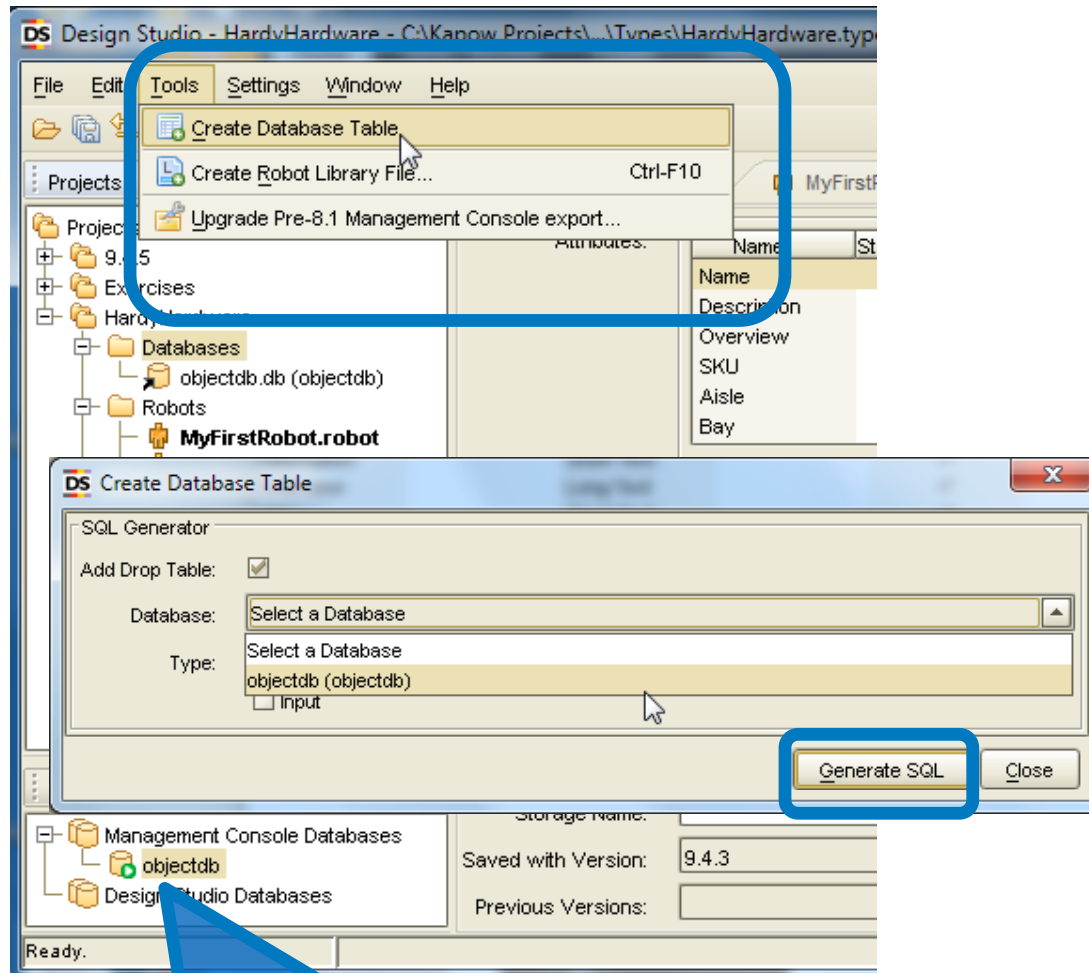
- ◆ Currently we've started RoboServer and the Management Console. Remember, the Management Console provides our license.
- ◆ And we've started the Development Database.
- ◆ Both command windows are still open but may be minimized.
- ◆ Let's go back to our last Project in Design Studio and map the attributes in our HardyHardware Type to a table in the Development Database



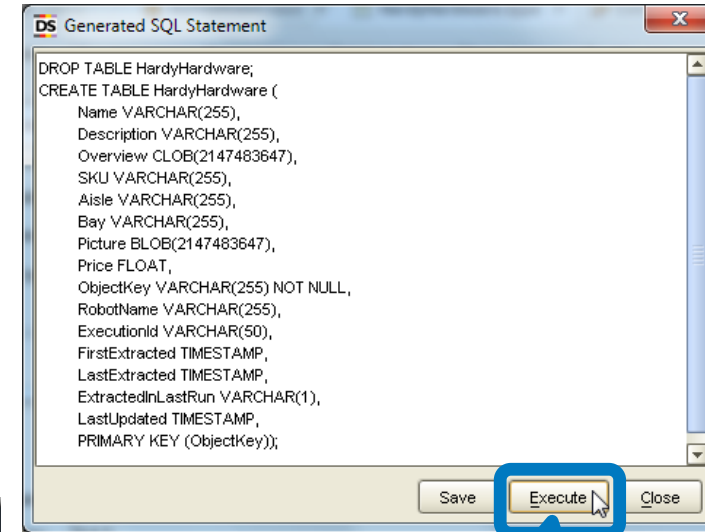
# Select a Database



# Create Table

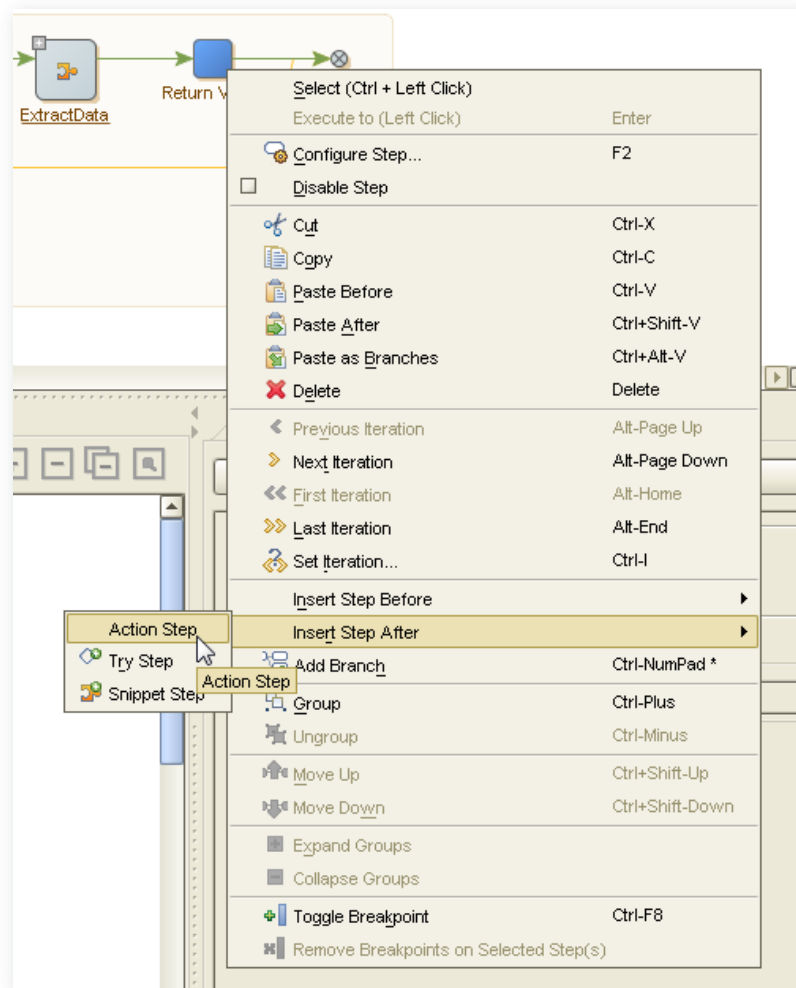


Notice green arrow: Indicates database is running and we're connected

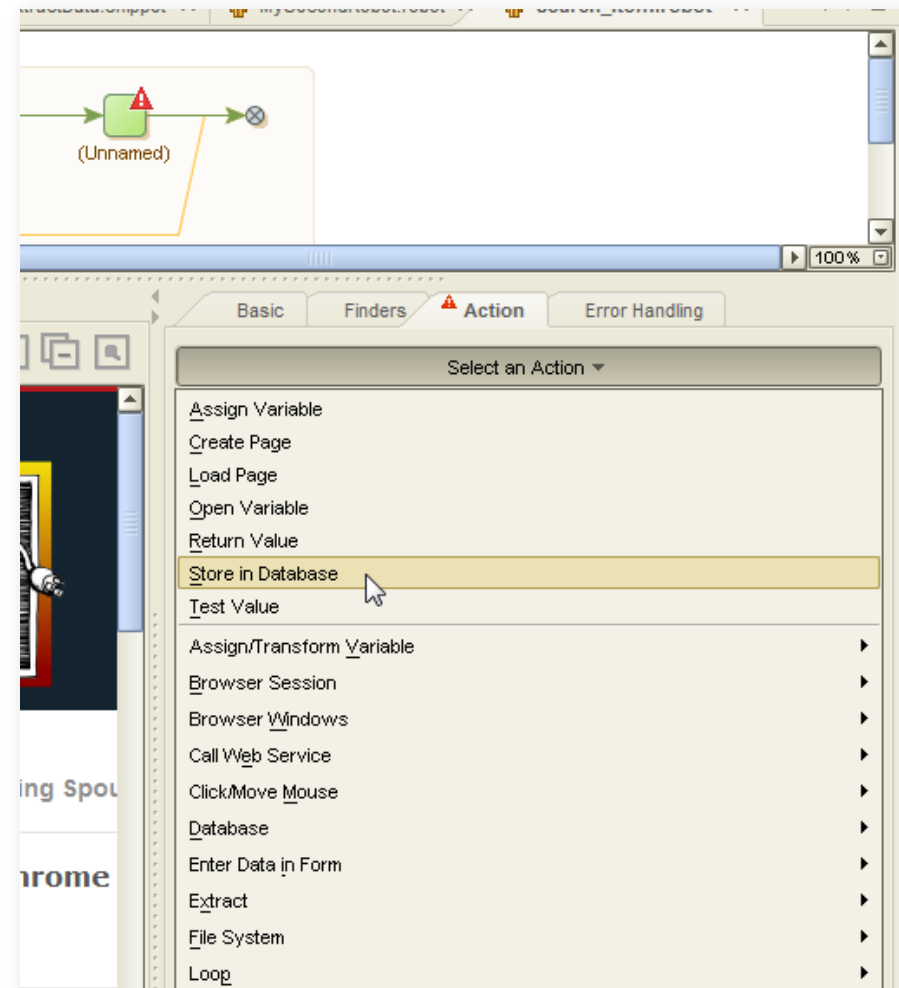


The [Execute] button executes the SQL statement shown in the box presented and creates the columns in the HardyHardware table.

# Create New Action Step to Store Data in Database



Use "Insert Step After" and Action Step

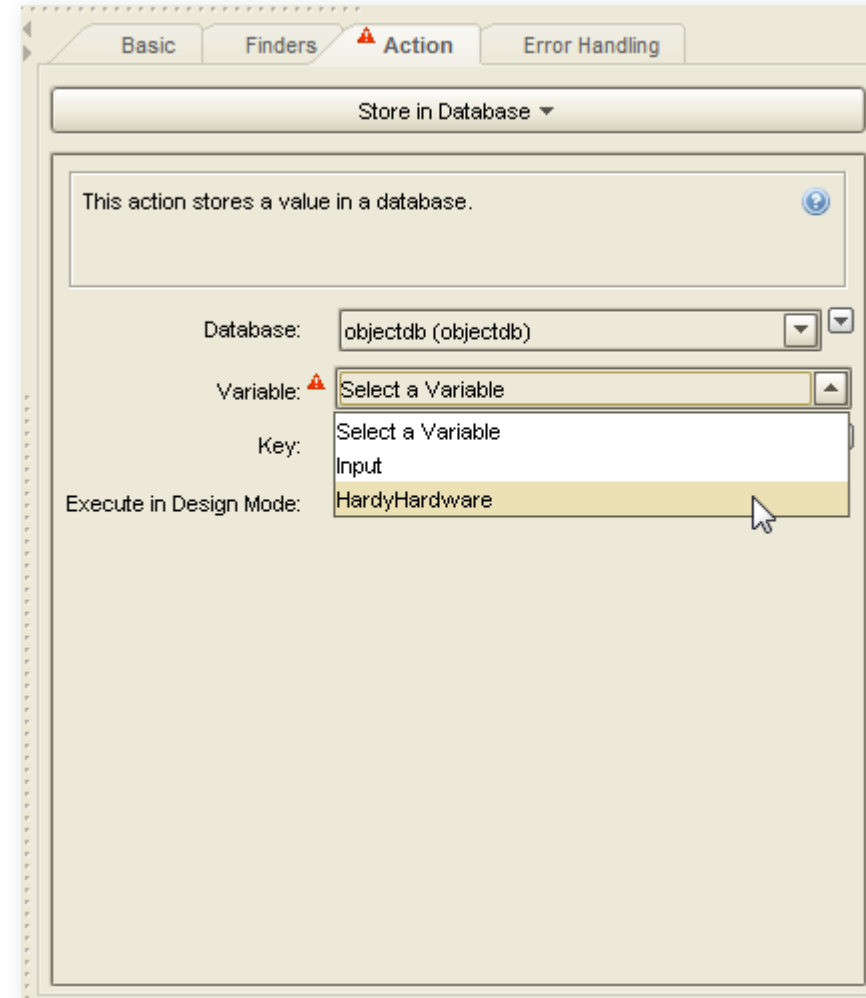


and select "Store in Database"



# Select a Variable for Storage

- ◆ On the Action tab, you must select a Variable for output. Here, we've selected HardyHardware from the dropdown.
- ◆ We're not going to output the Input variable.



# Testing in Debug Mode

Notice two values are shown as output: one from the Return Value step and another for the Store in Database step.

**Output (Returned Values)**

Name	D...	...	...	...	...	...
1 Super S 7 ft. 9 in. Jack Post	Tig...	...	...	...	...	...
2 Super S 7 ft. 9 in. Jack Post	Tig...	...	...	...	...	...
3 Basin Wrench	HD...	...	...	...	...	...
4 Basin Wrench	HD...	...	...	...	...	...
5 Super S Series 3 ft. Jack Post	Tig...	...	...	...	...	...
6 Super S Series 3 ft. Jack Post	Tig...	...	...	...	...	...
7 Tub Drain Remover	HD...	...	...	...	...	...
8 Tub Drain Remover	HD...	...	...	...	...	...
9 4 ft. Traditional Door Canopy Replacem...	Aw...	...	...	...	...	...
10 4 ft. Traditional Door Canopy Replacem...	Aw...	...	...	...	...	...
11 Shower Valve Wrench Set	HD...	...	...	...	...	...
12 Shower Valve Wrench Set	HD...	...	...	...	...	...
13 Telescoping Basin Wrench	Hus...	...	...	...	...	...
14 Telescoping Basin Wrench	Hus...	...	...	...	...	...
15 4 ft. Traditional Awning (25 in. Projecti...	Aw...	...	...	...	...	...

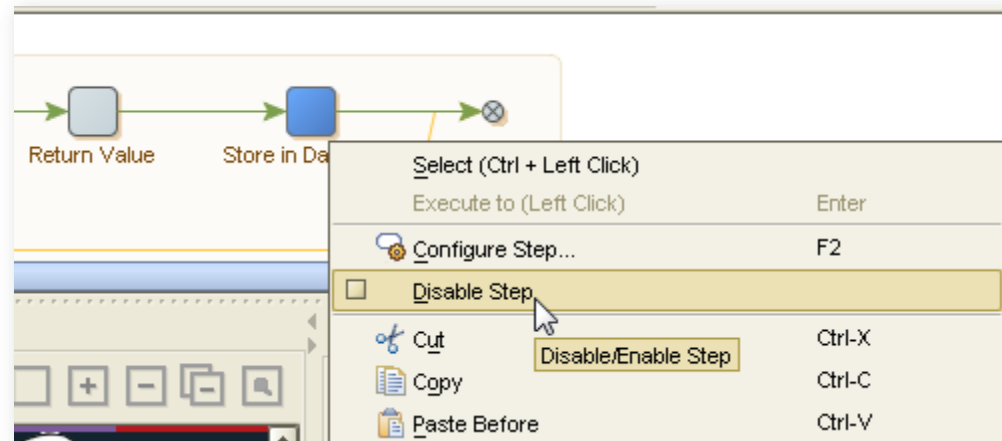
**Summary**

Returned Values:	22
Error Reports:	0
HTTP Requests:	365
Received (KB):	11555
Sent (KB):	116
JS Instructions:	25160996
KCU-Point Usage:	142102
Execution Time (s):	35.45

Stop When

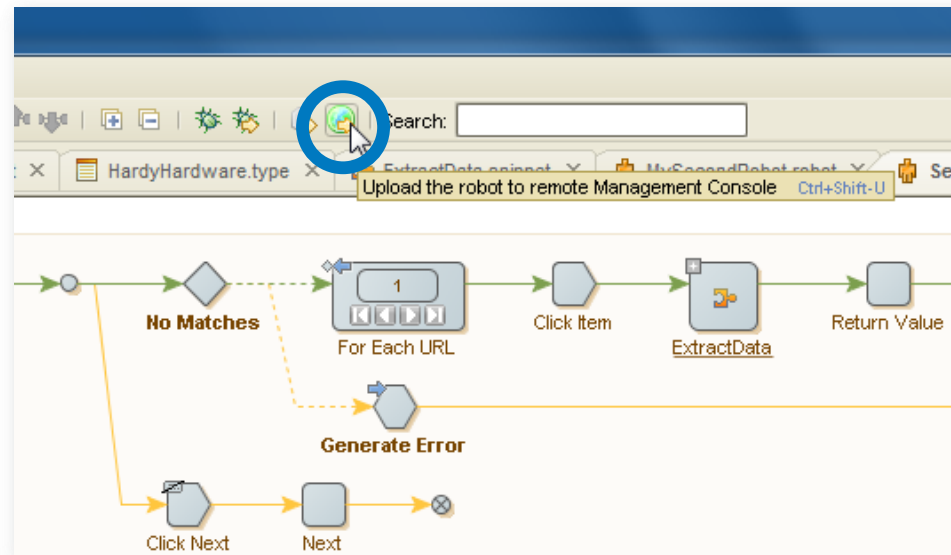
# Disabling Steps for Testing

- ◆ If you test the Robot through the end step or if you run it in Debug mode, you will be writing data to the database. You may not want to do that.
- ◆ You may disable this step (or any other step) by right mouse-clicking on the step and selecting "Disable Step" from the context menu. Remember to re-enable it when you want to store the data. *At that point, you might want to delete the Return Value step if it's no longer needed.*

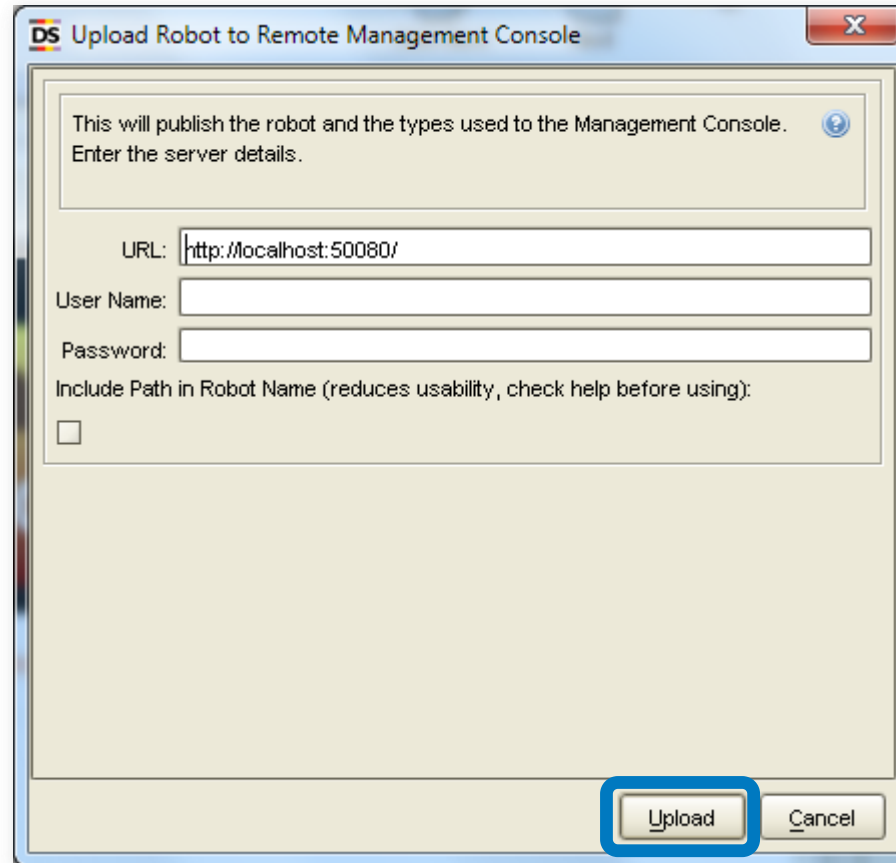


# Uploading Robot to the Management Console

- ◆ Uploading the Robot to the Management Console "publishes" the Robot making it available for use
  - ◆ You may run the Robot manually in the Management Console
  - ◆ You may set the Robot to run on a scheduled bases
  - ◆ You may create a "Kapplet" to allow users to run it from their workstation (more about Kapplets later).



# Specify the URL and Logon Credentials



DS Upload Robot to Remote Management Console

This will publish the robot and the types used to the Management Console.  
Enter the server details.

URL:

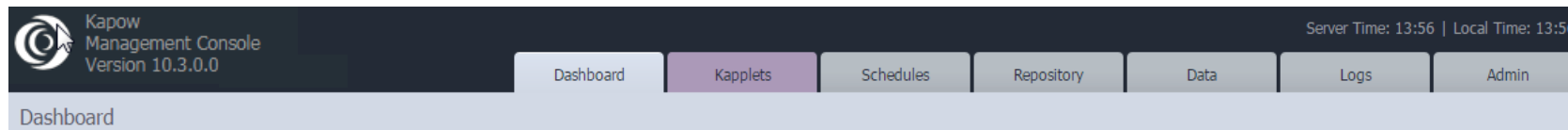
User Name:

Password:

Include Path in Robot Name (reduces usability, check help before using):  
☐

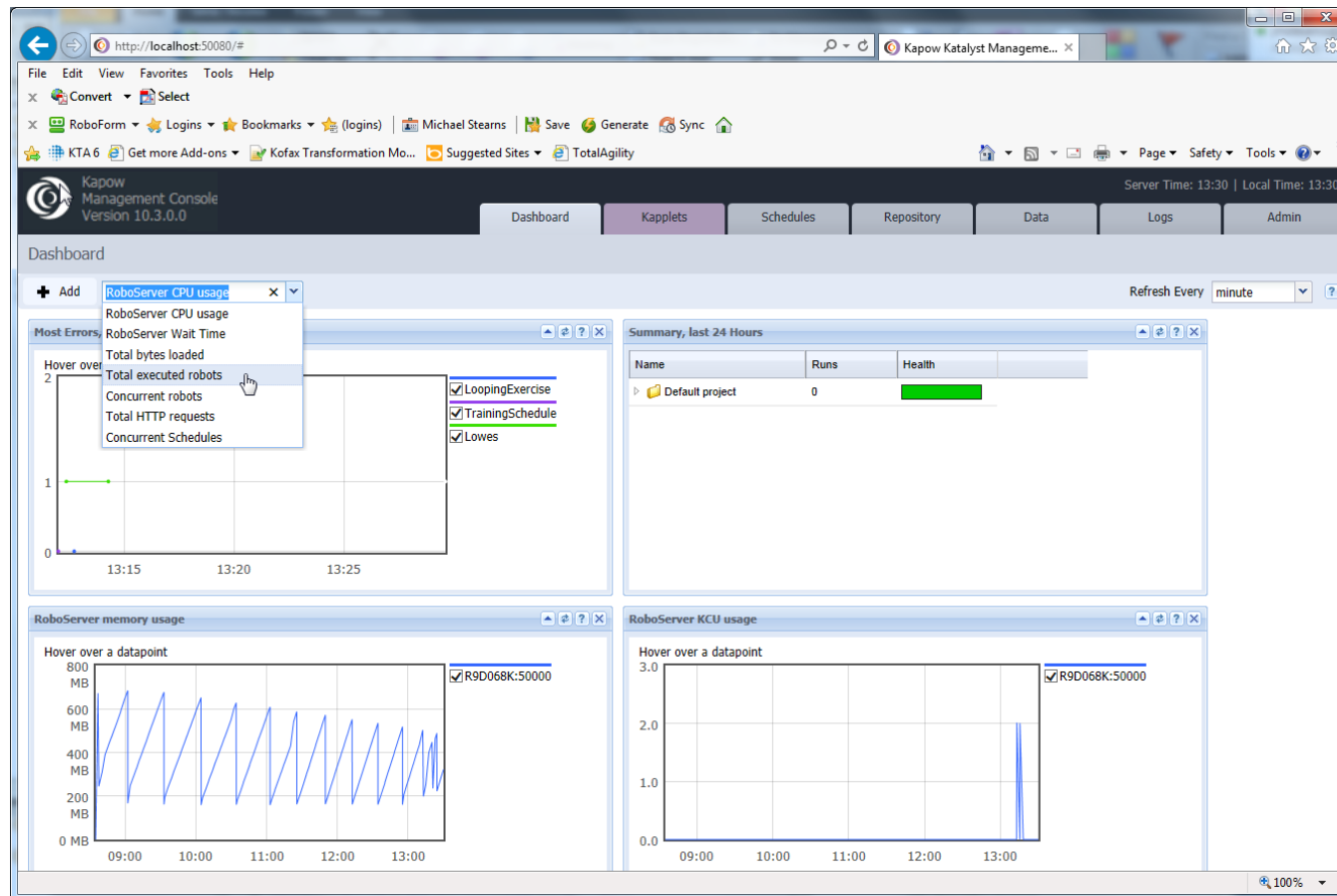
# The Management Console: An Overview

- ◆ The Management Console is displayed in a web interface (<http://URL:50080>)
- ◆ It is divided into several functional areas accessed by tabs.
  - ◆ Dashboard
  - ◆ Kapplets
  - ◆ Schedules
  - ◆ Repository
  - ◆ Data
  - ◆ Logs
  - ◆ Admin



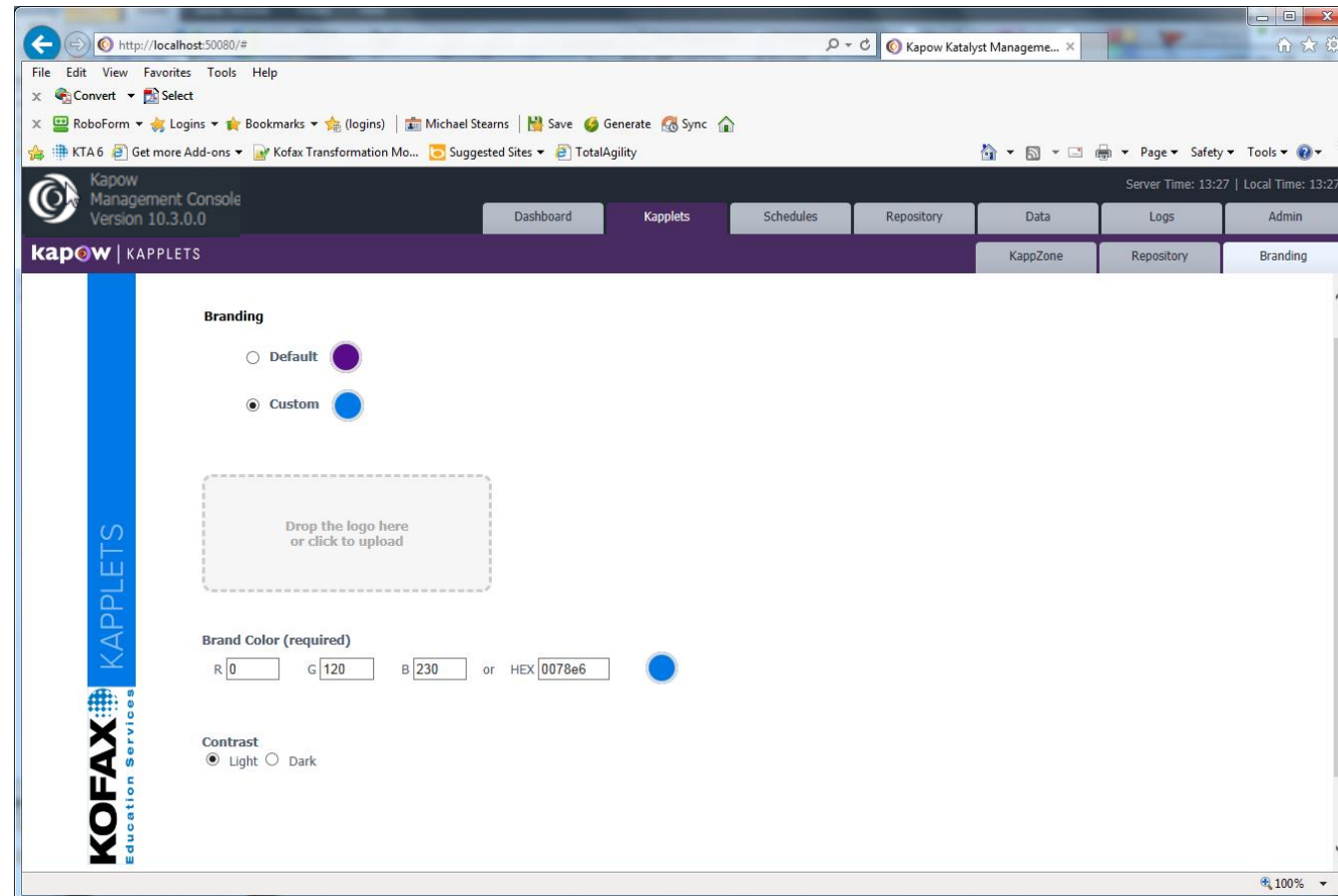
# Dashboards

- ◆ Dashboards give you a quick overview of the Management Console. The information is presented through portlets, which shows the health of your RoboServers, Schedules, and Robots.



# Kapplets

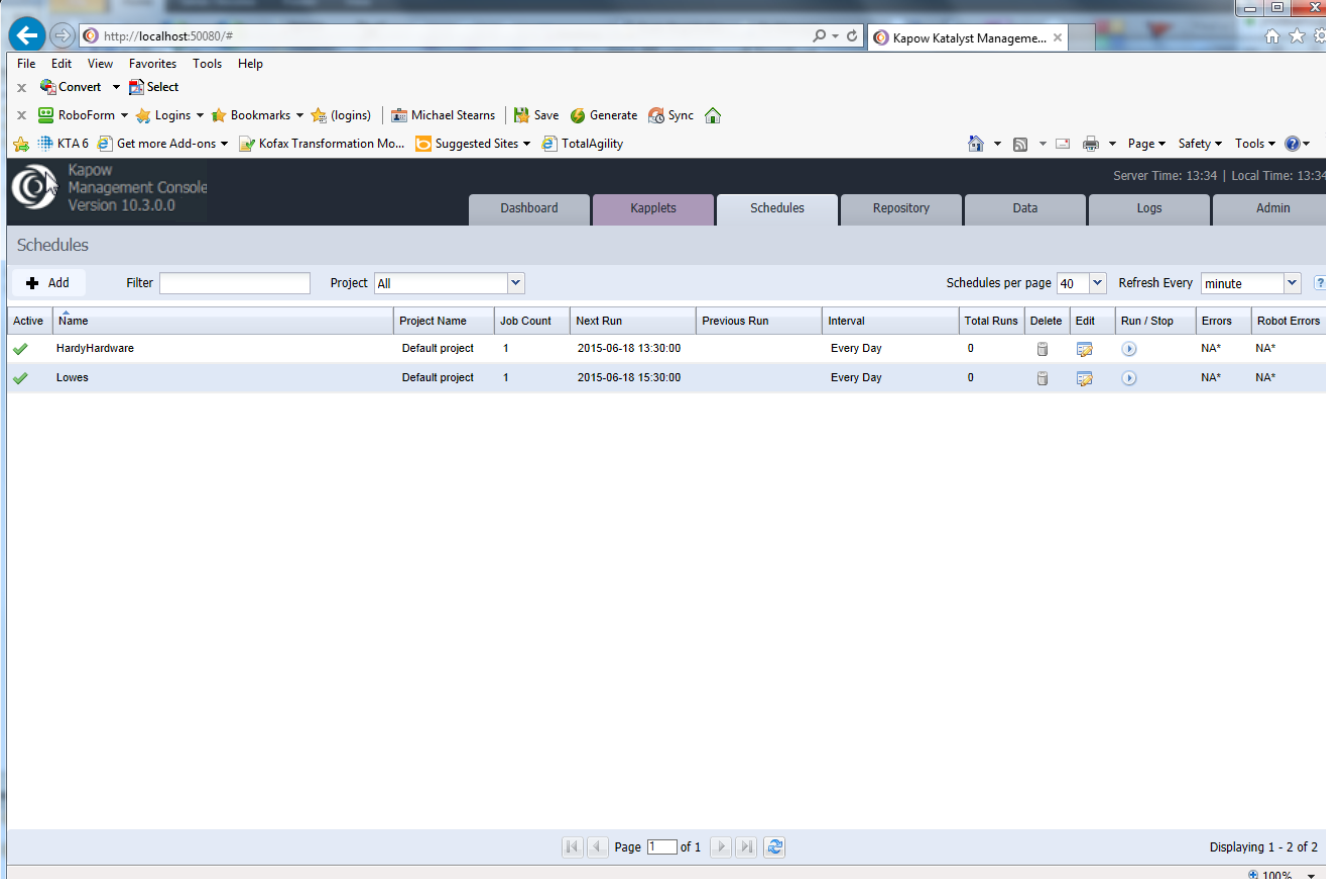
- ◆ A Kapplet is a web-based user interface that allows you to run a robot without any programming.





# Schedules

- ◆ A schedule is a plan for running one or more robots, typically at pre-planned points in time and in a repeating fashion. A schedule does not run robots itself; it merely provides the plan for when the robots should be run, which is done by passing them to the configured servers.

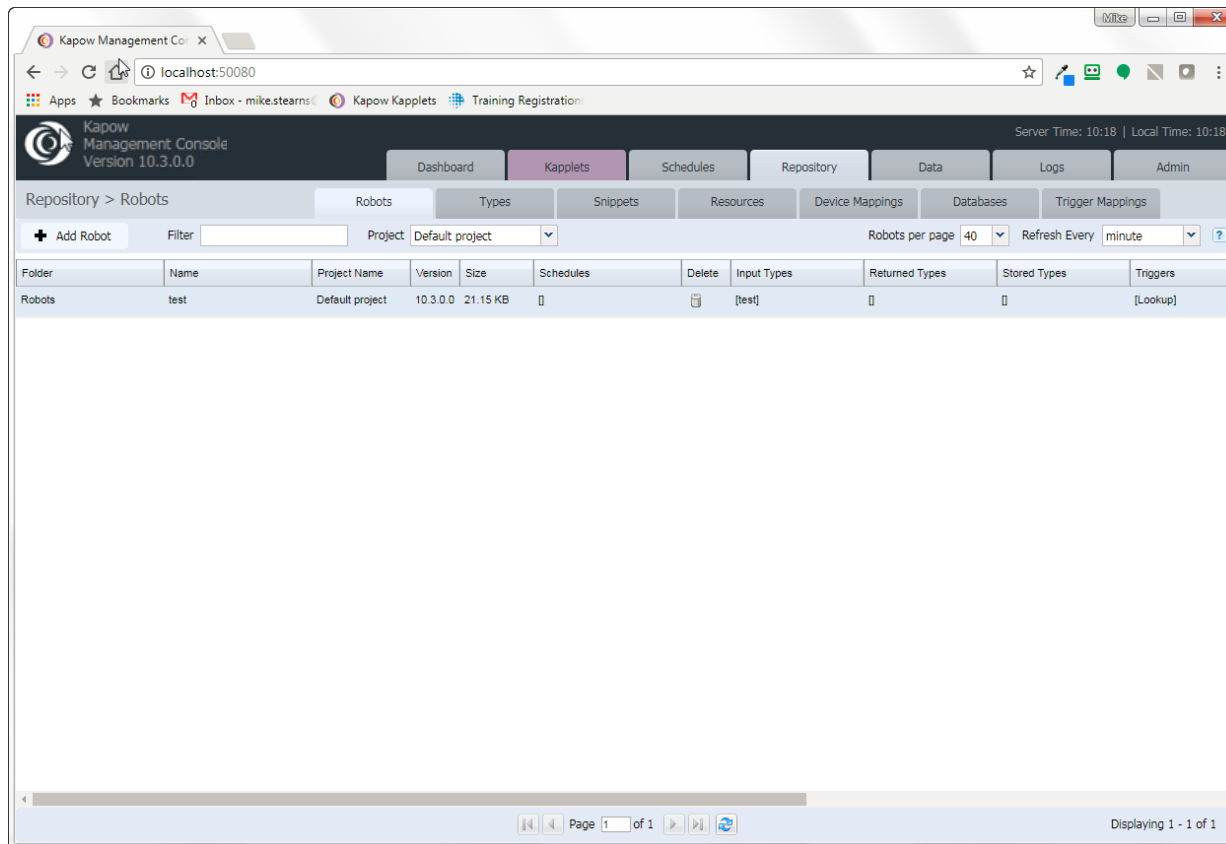


The screenshot shows the Kapow Management Console interface. The top navigation bar includes links for Dashboard, Kapplets, Schedules, Repository, Data, Logs, and Admin. The 'Schedules' tab is currently selected. Below the navigation bar, there is a 'Schedules' section with a table listing active schedules. The table has columns for Active, Name, Project Name, Job Count, Next Run, Previous Run, Interval, Total Runs, Delete, Edit, Run / Stop, Errors, and Robot Errors. Two schedules are listed: 'HardyHardware' and 'Lowes', both with a job count of 1 and an interval of 'Every Day'. The 'Run / Stop' column shows a play button icon for each schedule. The bottom of the page displays 'Page 1 of 1' and 'Displaying 1 - 2 of 2'.

Active	Name	Project Name	Job Count	Next Run	Previous Run	Interval	Total Runs	Delete	Edit	Run / Stop	Errors	Robot Errors
✓	HardyHardware	Default project	1	2015-06-18 13:30:00		Every Day	0			▶	NA*	NA*
✓	Lowes	Default project	1	2015-06-18 15:30:00		Every Day	0			▶	NA*	NA*

# Repository

- Robots, type definitions and resources can be uploaded from Design Studio to the Management Console repository or can be uploaded manually through the web interface of the Management Console. Uploaded robots can be executed as part of a Schedule or through client code that executes robots using the Kapow Java or C# APIs. You can also use the APIs to programmatically query or update the repository.



# Data View

- ◆ The Data View allows you to see the data your robots have stored in databases. The data view also allows you to export this data to Excel or XML.

The screenshot displays the Kapow Management Console interface. The top navigation bar includes tabs for Dashboard, Kapplets, Schedules, Repository, Data (selected), Logs, and Admin. The left sidebar shows a database navigation tree with 'objectdb' expanded, containing 'ADDRESS', 'DETAIL', 'HARDYHARDWARE' (selected), and 'ZIPCODEDATA'. The main area shows a table titled 'Table: HARDYHARDWARE' with columns: NAME, DESCRIPTION, OVERVIEW, SKU, AISLE, BAY, PICTURE, PRICE, and Delete. The table contains 20 rows of hardware data. Below the table, there are filters for NAME, DESCRIPTION, OVERVIEW, SKU, AISLE, BAY, and PRICE, each with a dropdown menu set to 'Equals'. At the bottom, there is a pagination bar showing 'Page 1 of 2' and 'Displaying 1 - 40 of 54'.

NAME	DESCRIPTION	OVERVIEW	SKU	AISLE	BAY	PICTURE	PRICE	Delete
Super S 7 ft. 9 in. Ja...	Tiger Brand Sup...	The Tiger Brand...	199122608	21	013	<BLOB>	42.97	
Basin Wrench	HDX Basin Wre...	The HDX Steel...	801317361	33	005	<BLOB>	11.98	
Super S Series 3 ft. J...	Tiger Brand Sup...	The Tiger Brand...	918187614	NA	NA	<BLOB>	29.87	
Tub Drain Remover	HDX Tub Drain...	HDX provides a...	951259307	10	004	<BLOB>	9.67	
4 ft. Traditional Door...	Awnings in a Bo...	This canopy repl...	954410973	NA	NA	<BLOB>	149.0	
Shower Valve Wrenc...	HDX Shower Va...	HDX Shower Va...	222623715	10	004	<BLOB>	19.97	
Telescoping Basin W...	Husky Telescopi...	This tool is used...	814366351	NA	NA	<BLOB>	19.98	
4 ft. Traditional Awni...	Awnings in a Bo...	Awnings in a bo...	341198796	NA	NA	<BLOB>	179.0	
Faucet and Sink Inst...	RIDGID Faucet...	This RIDGID Fa...	695626502	33	011	<BLOB>	19.98	
Super S Series 8 ft....	Tiger Brand Sup...	The Tiger Brand...	446571557	21	013	<BLOB>	49.97	
Super S 1 ft. Jack Post	Tiger Brand Sup...	The Tiger Brand...	559345039	NA	NA	<BLOB>	36.95	
2-Handle Service Sin...	Chicago Faucet...	This Chicago Fa...	604158303	NA	NA	<BLOB>	224.46	
K45 Auto-Feed Drain...	RIDGID K45 Aut...	Use the RIDGID...	690261979	10	004	<BLOB>	345.0	
1 in. x 6 ft. Rubber S...	Armalflex 1 in. X...	The Armacell Ar...	239238236	NA	NA	<BLOB>	7.25	
1 in. x 6 ft. Polyethyl...	Pratt Retail Spe...	1/2 in. Wall 1 in....	467913917	NA	NA	<BLOB>	1.28	
3/4 in. x 6 ft. Polyeth...	Pratt Retail Spe...	1/2 in. Wall 3/4 i....	76364586	NA	NA	<BLOB>	87.15	
4 oz. Silver Solder W...	Benzomatic 4 o...	The Benzomati...	18136118	11	015	<BLOB>	10.67	

# Logs

- Here you can view the execution history of your schedules. If database logging is enabled, you can also view the RoboServer logs which contains details of every robot execution.

The screenshot shows the Kapow Management Console interface. The top navigation bar includes tabs for Dashboard, Kapplets, Schedules, Repository, Data, Logs, and Admin. The 'Logs' tab is selected. On the left, there is a sidebar with search filters: Errors, Schedule Name (Contains), Run Id (= 30051), Project Name (All), Start (From/To), Stop (From/To), MC Server (Contains), Warnings (>), and Results per page (40). Below these filters are expandable sections for Schedule Messages, RoboServer, Robot Runs, Robot Messages, and Robots. The main area displays a table of log entries. The table has columns: Errors, Robot Errors, Schedule Name, Run Id, Project Name, Start, Stop, MC Server, Warnings, and Delet. A single entry is visible with the following details:

Errors	Robot Errors	Schedule Name	Run Id	Project Name	Start	Stop	MC Server	Warnings	Delet
0	1	HardyHardware Search	30051	Default project	2015-02-18 14:22:33	2015-02-18 14:22:38	R9D068K	0	

The bottom of the interface shows a pagination bar indicating 'Page 1 of 1' and 'Displaying 1 - 1 of 1'.

# Admin

- ◆ In the Admin section you can configure settings for the Management Console. It also enables you to manage the clusters of RoboServers and their settings, as well as manage projects and permissions. This is also where you configure the license and create/restore backups.
- ◆ **Note:** Some features, such as High Availability may not be available, depending on your license key

The screenshot displays the Kapow Management Console interface, specifically the Admin > RoboServers section. The top navigation bar includes tabs for Dashboard, Kapplets, Schedules, Repository, Data, Logs, and Admin. The sub-navigation bar shows Task View, RoboServers, Devices, Projects, Settings, Backup, and License. The main content area features a table of RoboServers with columns for Cluster/Server, Version, KCUs, Settings, Delete, Running Robots, Queued Robots, Max Robots, Uptime, Memory Limit, Above Limit, and Duration. The table lists two servers under the Production cluster. Below the table, there are filters for Robots on (Production) and a Filter by dropdown. The bottom section shows a table of running robots with columns for Robot, Server, Project, Start Time Client, Execution Id, Current Step, Location Code, Step Execution Time, Executed Steps Limit, Status, KCU Wait, and Loaded By. A note at the bottom states: "Select a cluster or a server above to view running robots".

Cluster/Server	Version	KCUs	Settings	Delete	Running Robots	Queued Robots	Max Robots	Uptime	Memory Limit	Above Limit	Duration (A
Production		4									
10.189.0.135:50000	NA	0			-1	-1	-1				
192.168.1.133:50000	10.0.3.18	4			0	0	20	5:25 hours	1.78 GB	No	

Robot	Server	Project	Start Time Client	Execution Id	Current Step	Location Code	Step Execution Time	Executed Steps Limit	Status	KCU Wait	Loaded By
-------	--------	---------	-------------------	--------------	--------------	---------------	---------------------	----------------------	--------	----------	-----------

Select a cluster or a server above to view running robots

# You May Manually Run a Robot from Repository/Robots Tab

Kapow Management Console Version 10.3.0.0

Server Time: 13:59 | Local Time: 13:59

Dashboard Kapplets Schedules Repository Data Logs Admin

Repository > Robots Robots Types Snippets Resources OAuth

+ Add Robot Filter Project All Robots per page 40 Refresh Every minute

Name	Project Name	Version	Size	Schedules	Delete	Input Types	Returned Types	Stored Types	Snippets used	Last Modified	Run Now	API
ZipCodes	Default project	9.4.3	28.39 KB					[ZipCodeData]		2015-01-27 15:51:39		
USPSLookup	Default project	9.4.3	23.88 KB			[ZipCodeInput]	[ZipCodeOutput]			2014-12-08 11:25:05		
TrainingSchedule	Default project	9.4.3	15.15 KB				[Detail]			2015-01-23 11:36:20		
Search_Item	Default project	9.4.3	17.98 KB	[HardyHardware]		[Input]	[HardyHardware]	[HardyHardware]	[ExtractData]	2015-02-18 12:56:21		
Misc	Default project	9.4.3	1.59 KB							2014-12-08 11:24:51		
Lowes	Default project	9.4.3	25.43 KB	[Lowes]						2014-12-08 11:24:34		
LoopingExercise	Default project	9.4.3	7.56 KB							2015-01-27 15:50:49		
Exercises	Default project	9.4.3	13.69 KB				[Article]			2015-01-21 16:01:17		

Page 1 of 1

Displaying 1 - 8 of 8

# And You May Schedule it to Run Automatically

Kapow Management Console Version 10.3.0.0

Server Time: 14:01 | Local Time: 14:01

Dashboard Kapplets Schedules Repository Data Logs Admin

Schedules

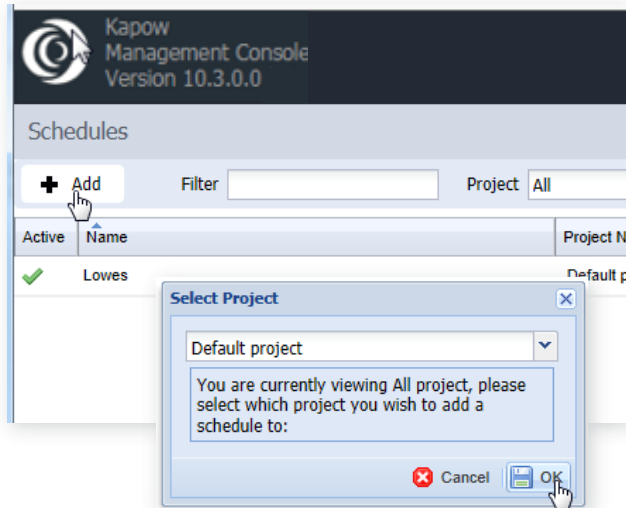
+ Add Filter  Project All Schedules per page 40 Refresh Every minute

Active	Name	Project Name	Job Count	Next Run	Previous Run	Interval	Total Runs	Delete	Edit	Run / Stop	Errors	Robot Errors
✓	HardyHardware	Default project	1	2015-06-18 13:30:00	2015-02-18 14:00:47	Every Day	2				0	0
✓	Lowes	Default project	1	2015-06-18 15:30:00		Every Day	0				NA*	NA*

Page 1 of 1 Displaying 1 - 2 of 2

You may manually run a scheduled Robot by clicking on the Run button.

# Scheduling Robots to Run Automatically



On the Schedules tab, click the Add button.

Give your schedule a name, check Active (or uncheck it if you don't want it to run according to the schedule) and set the time interval.

New Schedule

Basic Advanced

Name HardyHardware Search

Active ☒

☒ Simple ☐ Cron

Every 1 Hour

Start Date (local time) 14:00 2015-02-18

Run Robot? Use 'runrobot: TutorialCase1' to run robot TutorialCase1 for preprocessing or postprocessing

Run Script? Write a script path and name to run a script

Pre Processing

Post Processing

Run on Cluster Production

Jobs currently in this schedule

Job Name Active Remove Edit

Save Cancel



# Add a Job

**New Schedule**

**Basic** | Advanced

Name: HardyHardware Search

Active: ☒

☒ Simple ☐ Cron

Every: 1 Hour

Start Date (local time): 14:00 2015-02-18

Run Robot?: Use 'runrobot: TutorialCase1' to run robot TutorialCase1 for preprocessing or postprocessing

Run Script?: Write a script path and name to run a script

Pre Processing:

Post Processing:

Run on Cluster: Production

Jobs currently in this schedule

Job Name	Active	Remove	Edit
Use the green + symbol to add a job.			

**Select job type**

☒ A single robot

☐ A group of robots based on name

This will add a single robot to the schedule. If the robot requires input this must be configured.

Help < Back Next > Finish Cancel

Select either a single robot or a group of robots. Then click [Next].

# Select the Robot and Enter a Value for the Variable

Select robot

Robot: Search\_Item

Display Name: Search\_Item

**Warning**  
Search\_Item contains the 'Return Value' action. This action has no effect in scheduled robots (unless used with the deprecated Database Storage Environment). Scheduled robots should use 'Store in Database' or 'Write File' to process data.

Help < Back Next >

Select the robot from the dropdown list. If you want a different display name in the Management Console, you can enter it on the second line. Click [Next].

Because our robot has an input variable, you must enter a value here for it to run. NOTE: You can always come back and edit this job and provide a different value for the variable. Click [Finish].

Configure input for Search\_Item

Input SearchFor: sprinklers

Help < Back Next > Finish Cancel

# The Job Has been Created and Added to the Schedule

**New Schedule**

**Basic** | Advanced

Name: HardyHardware Search

Active: ☒

☒ Simple ☐ Cron

Every: 1 Hour

Start Date (local time): 14:00 2015-02-18

Run Robot? Use 'runrobot: TutorialCase1' to run robot TutorialCase1 for preprocessing or postprocessing

Run Script? Write a script path and name to run a script

Pre Processing:

Post Processing:

Run on Cluster: Production

Jobs currently in this schedule

Job Name	Active	Remove	Edit
Search_Item	<input checked="" type="checkbox"/>		

Save Cancel

Click [Save] to save the job to your schedule list

New scheduled item has been created.

Kapow Management Console  
Version 10.3.0.0 beta 2

Dashboard | **Kaplets** | Schedules | Repository | Data | Logs | Admin

Schedules

Add Filter: Project: All Schedules per page: 40 Refresh Every: minute

Active	Name	Project Name	Job Count	Next Run	Previous Run	Interval	Total Runs	Delete	Edit	Run / Stop	Errors	Robot Errors
✓	HardyHardware Search	Default project	1	2015-02-18 15:00:00		Every Hour	0				NA*	NA*
✓	Lowes	Default project	1	2015-06-18 15:30:00		Every Day	0				NA*	NA*

Page 1 of 1

Displaying 1 - 2 of 2

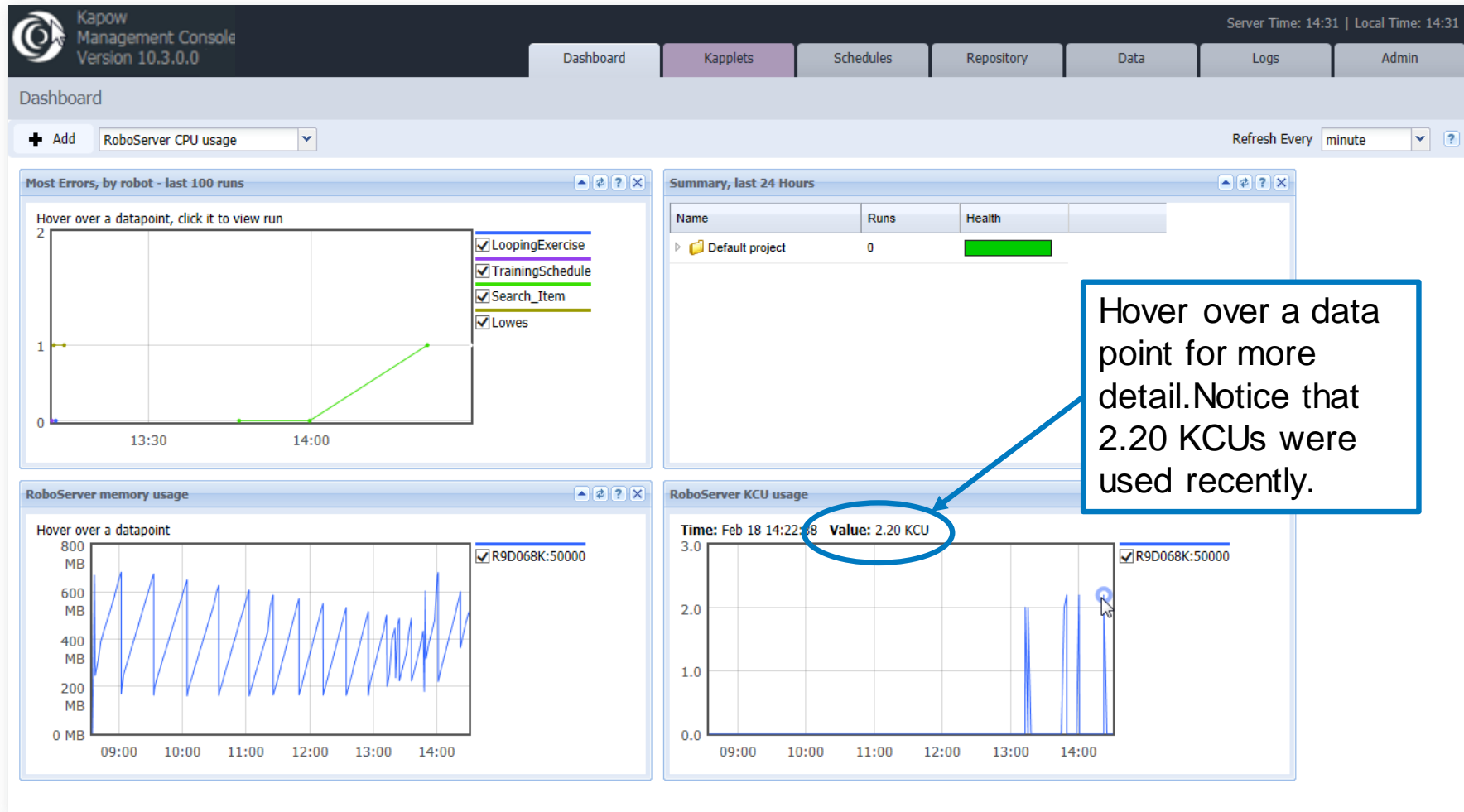
# Viewing Data in Management Console

This is data that is now stored in the database. Notice the handy search filters at the bottom left of the screen.

The screenshot displays the Kapow Management Console interface. At the top, the header shows 'Kapow Management Console Version 10.3.0.0' and a navigation bar with tabs: Dashboard, Kapplets, Schedules, Repository, Data (selected), Logs, and Admin. The 'Data' section is active, showing a table titled 'Table: HARDYHARDWARE'. The table has columns: NAME, DESCRIPTION, OVERVIEW, SKU, AISLE, BAY, PICTURE, PRICE, and Delete. The table lists various hardware items such as '8 oz. Solid Wire Solder', '4 oz. PVC Red Hot Blue Glue Pipe Cement...', and '67.6 oz. Hair and Grease Drain Opener'. To the left of the table is a 'Database navigation' pane showing a tree structure with 'objectdb' expanded, containing 'ADDRESS', 'DETAIL', 'HARDYHARDWARE' (selected), and 'ZIPCODEDATA'. Below the navigation pane is a 'Filters' section with input fields and dropdown menus for NAME, DESCRIPTION, OVERVIEW, SKU, AISLE, BAY, and PRICE. At the bottom right, there is a pagination bar showing 'Page 1 of 2' and 'Displaying 1 - 40 of 54'.

NAME	DESCRIPTION	OVERVIEW	SKU	AISLE	BAY	PICTURE	PRICE	Delete
8 oz. Solid Wire Solder	Bernzomatic 8 o...	The Bernzomatic SSW800 is a silver bearing soli...	729913557	11	015	<BLOB>	15.37	
4 oz. PVC Red Hot Blue Glue Pipe Cement...	Christy's 4 oz. P...	Christy's Red Hot Blue Glue 4 oz. PVC Pipe Cem...	747380959	NA	NA	<BLOB>	199.0	
67.6 oz. Hair and Grease Drain Opener	Instant Power 6...	Instant Power Hair and Grease Drain Opener is t...	615073714	10	002	<BLOB>	10.98	
2 in. x 3 ft. Fiberglass Self-Sealing Pre-Slit...	Frost King 2 in....	The Thermwell Products Co., Inc. 2 in. x 3 ft. Fibe...	624310968	12	014	<BLOB>	8.97	
1 gal. 10-Minute Hair Clog Remover (Case...	ZEP 1 gal. 10-M...	ZEP 1 Gallon Hair Clog Remover Gel works fast t...	875521027	NA	NA	<BLOB>	47.97	
Quick Release 1-1/8 in. Mini Tube Cutter	Husky Quick Re...	Use the Husky Quick Release 1/8 in. to 1-1/8 in....	173166235	10	004	<BLOB>	13.48	
1 in. x 6 ft. Foam Pipe Insulation	Everbilt 1 in. x 6...	For an economical and energy efficient way to he...	865170786	12	012	<BLOB>	1.99	
42 oz. Drain Max Gel Clog Remover (Case...	Drano 42 oz. Dr...	Drano 42 oz. Drain Opener is a thick gel that pou...	998095546	NA	NA	<BLOB>	49.97	
8 oz. PVC Heavy-Duty Cement	Oatey 8 oz. PV...	The Oatey 8 oz. Heavy-Duty PVC Cement is for...	850241643	11	009	<BLOB>	7.57	
Solder and Flux Kit	Bernzomatic Sol...	The Bernzomatic SSW400PK is an all-in-one plu...	476560288	11	015	<BLOB>	14.67	
1/2 in. Push-Fit x 3/8 in. OD Compression...	SharkBite 1/2 in....	The SharkBite 1/2 in. Push-Fit x 3/8 in. OD Comp...	136813183	10	017	<BLOB>	9.72	
33.8 oz. Hair and Grease Drain Opener	Instant Power 3...	Instant Power Hair and Grease Drain Opener is t...	472420307	10	002	<BLOB>	7.98	
3/4 in. x 6 ft. Foam Self Seal Pipe Insulation	Everbilt 3/4 in. x...	For an economical and energy efficient way to he...	935139697	12	012	<BLOB>	2.49	
Auto-Clean K-30 Sink, Tub and Shower Dr...	RIDGID Auto-CI...	Use the RIDGID Auto-Clean K-30 to clear clogge...	342687251	10	004	<BLOB>	159.0	
1 in. x 6 ft. Foam Self Seal Pipe Insulation	Everbilt 1 in. x 6...	For an economical and energy efficient way to he...	618234852	12	012	<BLOB>	2.79	
6 ft. Electric Water Pipe Heat Cable	Frost King 6 ft....	This energy-saving Thermwell Products 6 ft. Elec...	67698743	12	012	<BLOB>	22.94	
Quick Release 1-1/8 in. Tube Cutter	Husky Quick Re...	Use the Husky 1/8 in. to 1-1/8 in. Quick Release...	493230758	NA	NA	<BLOB>	15.98	

# Performance Graphs



# Kapow Compute Units (KCU) – A Review



- ◆ A KCU is a Kapow Compute Unit and is defined as a unit of measure for how many operations (or steps) a Kapow RoboServer can perform in one second (and is unrelated to underlying server capacity). Capacity-based pricing is how you license Kofax Kapow.
- ◆ A step is the smallest unit of action which can be performed within a RoboServer. Examples of steps are, loading a web page, writing a data record to a database, or performing a transformation on a data element.
- ◆ One KCU represents a total of 5000 KCU points per second. The number of Kapow steps that make up one (1) KCU depends on the type of Kapow steps involved, as each step type consumes a different amount of the KCU. The steps are divided into groups the most important groups are listed here:
  - ◆ Steps that both do I/O and execute JavaScript, 10000 KCU points E.g.: 2 page loads per second with 4 KCUs
  - ◆ Steps that do either I/O or execute JavaScript (but not both), 1000 KCU points E.g.: 20 Call REST Web Service Steps per second with 4 KCUs
  - ◆ Extraction and transformation steps 1 KCU point E.g. 40,000 extract or assign steps per second with 4 KCUs.
- ◆ In this version of Kapow, the KCU licensing model has been superseded by the CRE model based on maximum number of concurrently running robots.



# Demo & Lab

Development Database  
Management Console