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# Objectives

- Install HP SIM on a Linux server
- Set up managed systems to enable command execution and software deployment
- Upload and register an MIB using the CLI
- Run a data collection task
- Compare the snapshots of managed systems
- Automate communication of system faults
- Automate deployment of HP support software to managed systems



# Demo — Migrating from Insight Manager 7 to HP SIM



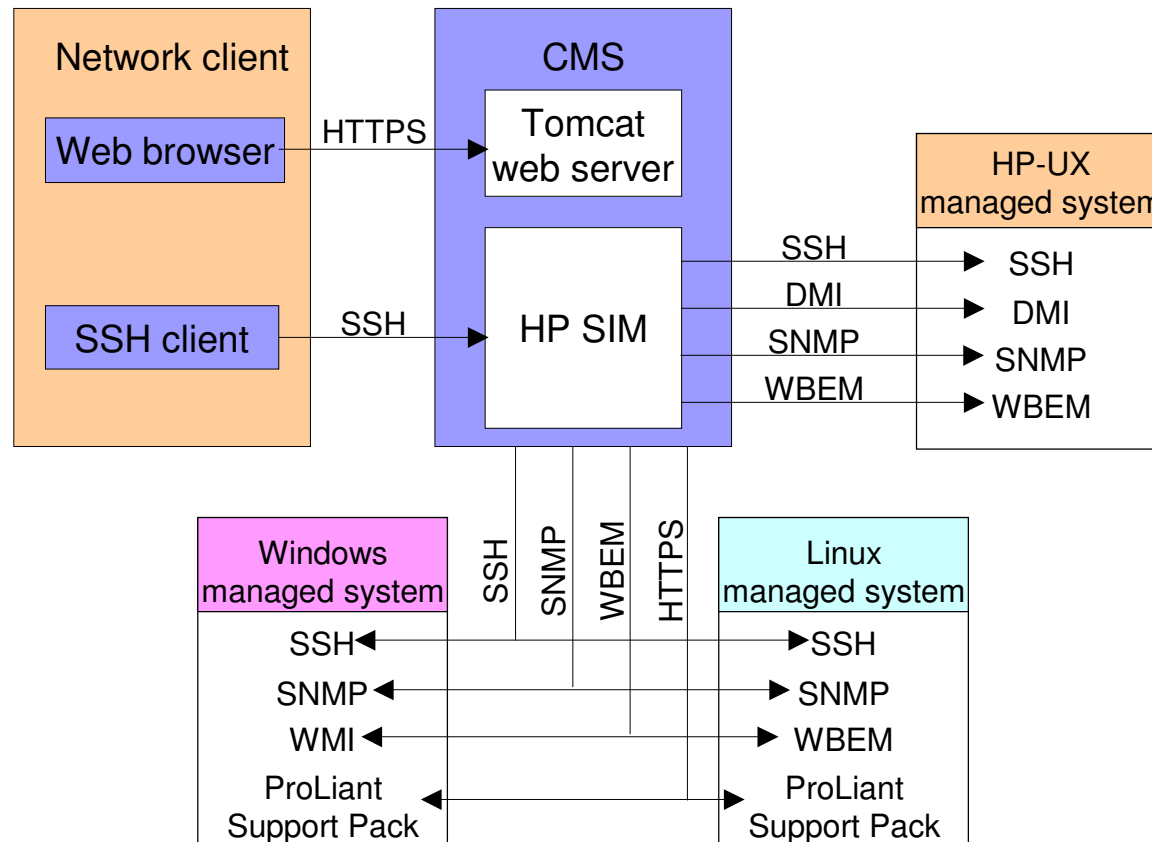
# Lab — Installing HP SIM on a Linux server



- Create users to access HP SIM from a client
- Verify installation of prerequisite packages
- Install Mozilla on the CMS
  - Install and register the JRE browser plug-in
- Install HP SIM

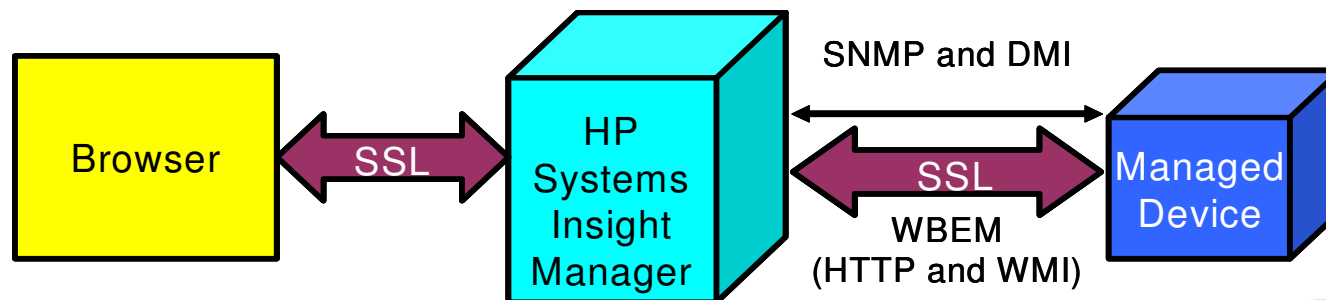
# Setting up managed systems

- Management agents
- Protocol communication



# Secure communications

- HP SIM uses SSL for all browser communications, Secure Task Execution, and single login
- Certificates
  - Integral part of SSL
  - Public documents used to identify the HP SIM server
- Certificate-related issues
  - Browser might initially display a security alert when browsing to HP SIM, describing the certificate as untrusted
  - Using a certificate from a third-party CA, an internal CA, or PKI



# Lab — Setting up a managed system



- Install and configure SSH
  - Install OpenSSH on a Windows managed system
  - Verify OpenSSH is installed on a Linux managed system
  - Copy the SSH key from the CMS
- Configure a Linux managed system to send SNMP traps
- Configure a Windows managed system to send SNMP traps
- Configure protocol settings for managed systems

# MIB Importing and Compiling

- MIB importer CLI
- MIB compiler
- MIB control layer
- MIB configuration
  - Configuration file format and keywords
- Lab — Uploading and registering an MIB using the CLI





# Data Collection

- Initial Data Collection task
- Bi-Weekly Data Collection task
- Data collection task considerations
- Lab — Running a Data Collection task

# Manual discovery

- Managing host files

## Manual Discovery - Add System

Description: Add a single system to be managed by HP Systems Insight Manager

To add multiple systems, see the [Hosts Files](#) page. To add systems automatically, see the [Automatic Discovery](#) page.

- Lab — Performing a manual discovery



# Reports

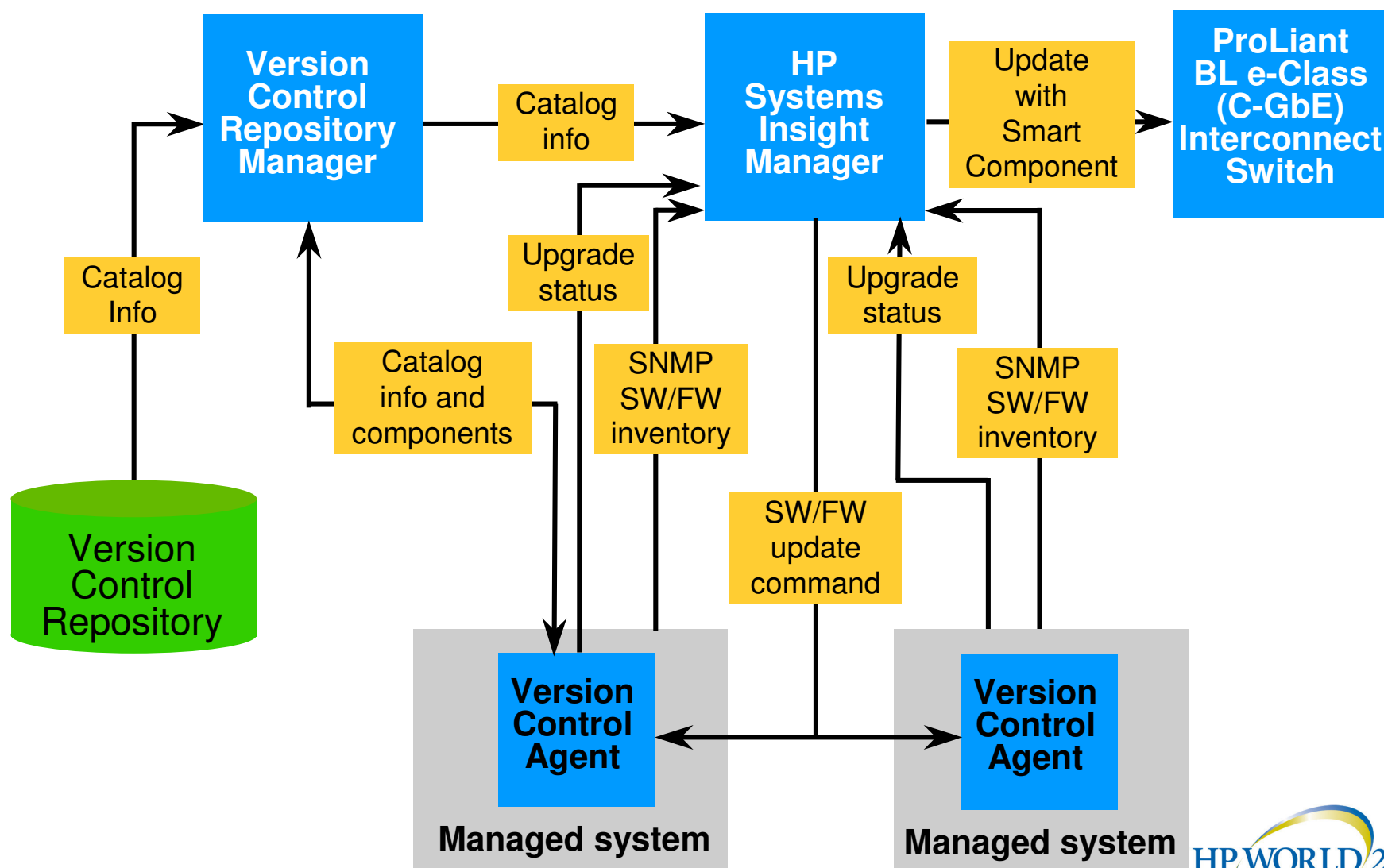
- Displaying the results
- Lab — Comparing the snapshots of managed systems

# Configuring Automatic Event Handling



1. Select name
2. Select events
3. Select systems
4. Select actions
5. Select time filter
6. Review summary
7. Complete the wizard

# HP Version Control tools



# Replicate Agent Settings

- Source system configuration is copied to a target system or group of systems
- Requires a trust relationship between source and target system
- Uses STE to issue commands to the system
- Wake on LAN

# Lab — Preparing the environment for automatic software deployment



- Configure web agent settings
- Import the HP SIM certificate
- Change the trust mode
- Replicate the agent settings
- Verify configuration options

# Populating a repository

- Can be maintained by using the HP website or the HP SmartStart for Servers CD
- Tasks that must be performed to maintain a repository
  - Monitor PSPs and Smart Components stored in the repository
  - Delete multiple PSPs and Smart Components from the repository
  - Copy multiple PSPs and Smart Components to another repository
  - Create custom Support Packs based on multiple Smart Components
- Lab — Populate the repository



# Discovering software status

- Determines whether managed servers require software updates
- Software Version Status Polling tasks
  - Retrieves software and firmware inventory from systems
  - Determines the software and firmware update status
  - Sorts versions in the database
- Advanced Search criteria
- Lab — Creating a new software status polling task

# Contacting the VCA


**Version Control Agent**
[Device Home](#) [Help](#)

[home](#)
[log](#)

- refresh the inventory data
- change agent settings
- show additional items available in the repository

## Software Status

**Overall Software Status:** ☒

**Reference Support Pack:** None selected. Click on **change agent settings** to specify the Reference Support Pack.

## Installed Software

Name	Installed Version	Latest Version
hp Management Agents for Windows 2000/Server 2003	6.10.0.0	<input checked="" type="checkbox"/> <a href="#">6.40.0.0</a>
hp Management Agents for Windows 2000/Server 2003	6.10.0.0	<input checked="" type="checkbox"/> <a href="#">6.40.0.0</a>
hp Management Agents for Windows 2000/Server 2003	6.10.0.0	<input checked="" type="checkbox"/> <a href="#">6.40.0.0</a>
hp Management Agents for Windows 2000/Server 2003	6.10.0.0	<input checked="" type="checkbox"/> <a href="#">6.40.0.0</a>
Web Agent Service	6.10.0.0	
hp ProLiant System Management Interface Driver	5.25.2195.0	
Survey Utility for Windows	2.48.7.0	<input checked="" type="checkbox"/> <a href="#">2.53.0.0</a>
Compaq System Configuration Utility		
hp ProLiant Remote Monitor Service for Windows 2000/Server 2003	5.0.2.0	<input checked="" type="checkbox"/> <a href="#">5.0.2.0</a>

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Version Control Agent 2.0

# Creating a Task to Update a Managed System



- System requirements
  - Inventory is retrieved from systems that use SNMP
  - HP SIM must be running on Windows to update ProLiant BL e-Class Interconnect switches
  - HP SIM must be able to retrieve software and firmware version status information
  - Administrator privileges
  - Trust relationship with selected repository
- Forced downgrades
- Low power mode
- Lab — Deploying software to a managed system

# Lab — Deployment software to a managed system



- Retrieve and update web agent configuration settings from a source system
- Distribute a web agent configuration to managed systems
- Configure Insight Management Agents to facilitate software updates
- Deploy HP support pack software using an HP SIM task

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