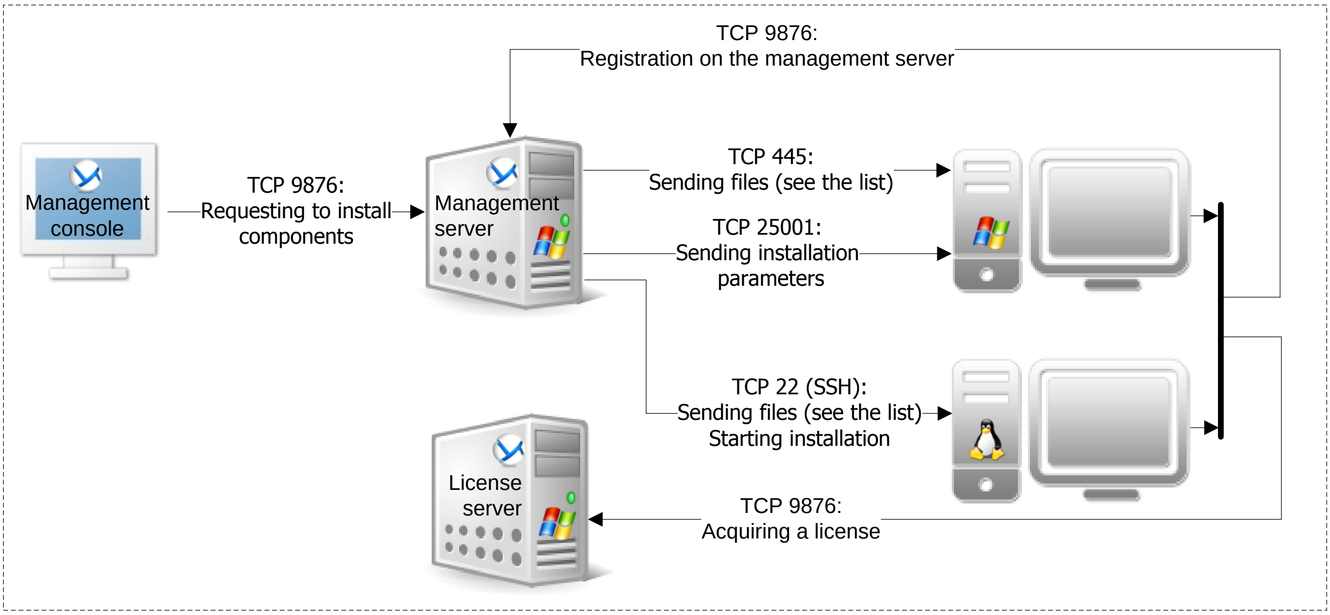
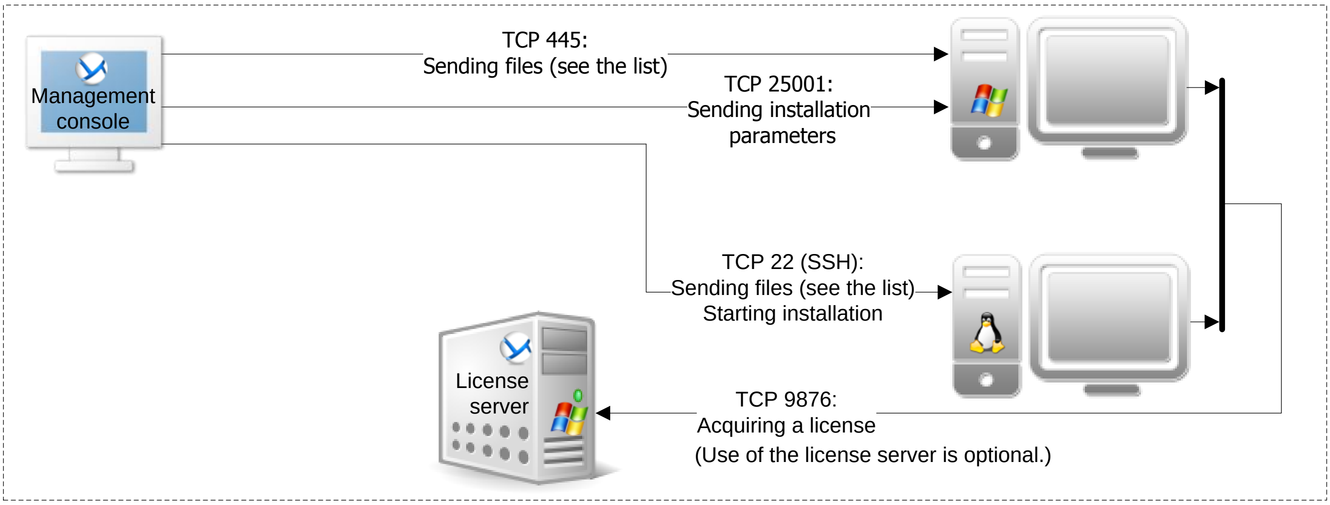
Acronis Backup Advanced: Network Connections

1. Remote installation of Agents

Management Server is present


TCP 9876:
Registration on the management server
Management console
TCP 9876:
Requesting to install components
Management server
TCP 445:
Sending files (see the list)
TCP 25001:
Sending installation parameters
TCP 22 (SSH):
Sending files (see the list)
Starting installation
License server
TCP 9876:
Acquiring a license

Management Server is absent


Management console
TCP 445:
Sending files (see the list)
TCP 25001:
Sending installation parameters
TCP 22 (SSH):
Sending files (see the list)
Starting installation
License server
TCP 9876:
Acquiring a license
(Use of the license server is optional.)

Connection notes:

- —▶ **:** The arrow direction shows which component initiates a connection. The text shows the destination port. The source port is 1025–5000 (Windows prior to Windows Vista), 49152–65535 (Windows Vista and later), or 32768–61000 (Linux and the virtual appliance).
- The agent registers itself by using the specified network name or IP address of the management server. If the network name is specified, the agent obtains the IP address either from the DNS server or from the hosts file (**%SystemRoot%\system32\drivers\etc\hosts** in Windows or **/etc/hosts** in Linux). Adding the management server to this file helps when the agent is located on a different subnet than the management server.
- In a non-DNS environment, it is necessary to enable **Network Discovery** and **File and Printer Sharing** on the machine from where the installation is performed (the management server or the management console). This requires additional TCP and UDP ports to be open.

Encryption notes:

- **TCP 22**: Traffic is encrypted by using the SSH protocol.
- **TCP 445:** Traffic encryption depends on the File and Printer Sharing options in Windows
- **TCP 9876:** By default, traffic is encrypted. Encryption is configured through the Acronis administrative template.
- **TCP 25001:** Traffic itself isn't encrypted. But all user names and passwords are sent encrypted.

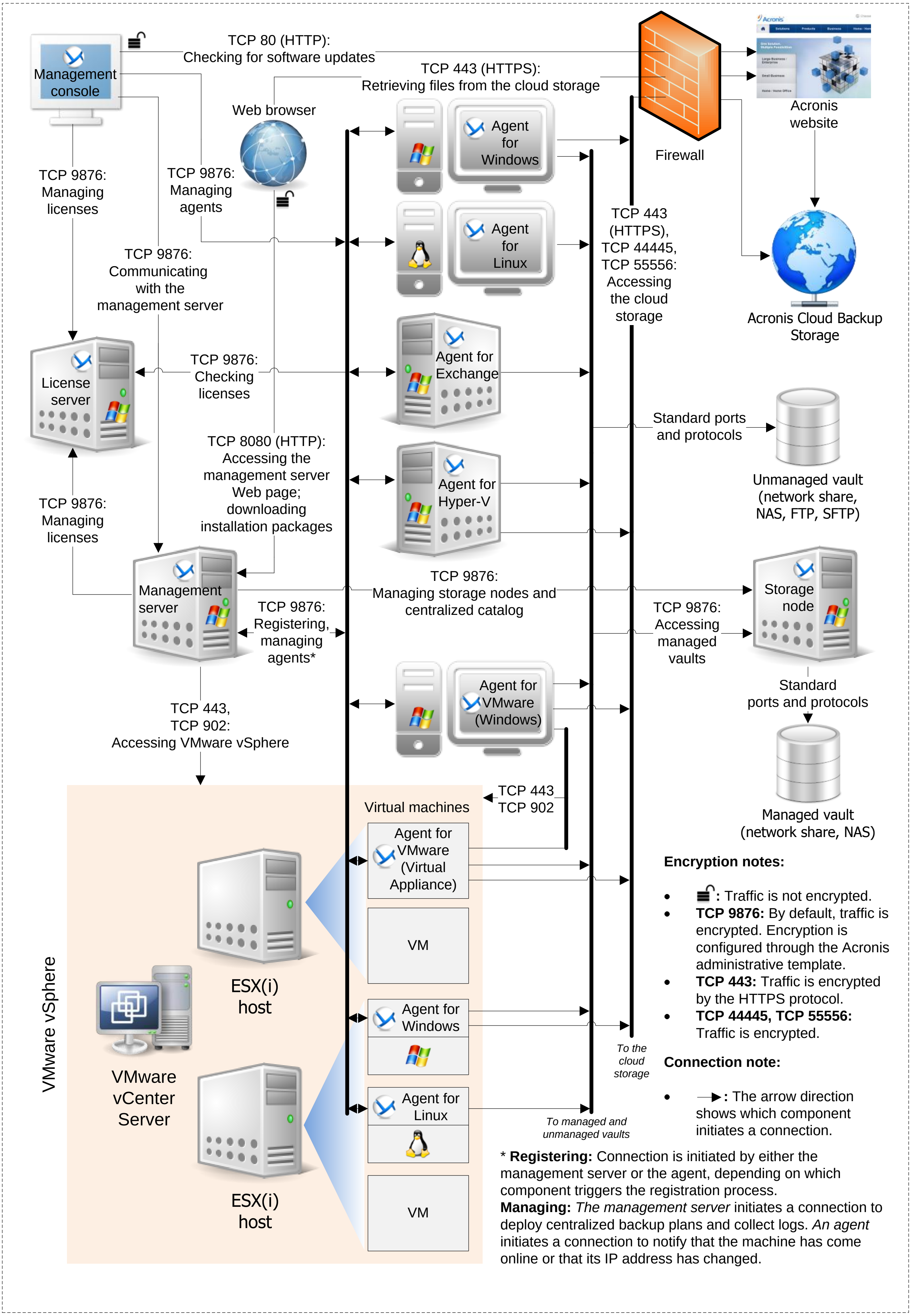
List of transferred files (Windows):

- **Installation packages (.msi files)**: Contain components being installed
- **Acroinst.exe:** Manages the installation process
- **Msi_setup.exe:** Installs a component

List of transferred files (Linux):

- **Installation packages (.i686 or .x86_64 files)**

2. Communication between components


Management console
TCP 80 (HTTP): Checking for software updates
TCP 443 (HTTPS): Retrieving files from the cloud storage
Firewall
Acronis website
Web browser
TCP 9876: Managing licenses
TCP 9876: Managing agents
Agent for Windows
Agent for Linux
TCP 443 (HTTPS), TCP 44445, TCP 55556: Accessing the cloud storage
Acronis Cloud Backup Storage
TCP 9876: Communicating with the management server
License server
TCP 9876: Checking licenses
Agent for Exchange
Standard ports and protocols
Unmanaged vault (network share, NAS, FTP, SFTP)
TCP 8080 (HTTP): Accessing the management server Web page; downloading installation packages
Agent for Hyper-V
TCP 9876: Managing licenses
Management server
TCP 9876: Managing storage nodes and centralized catalog
TCP 9876: Registering, managing agents*
TCP 9876: Accessing managed vaults
Storage node
Standard ports and protocols
Managed vault (network share, NAS)
TCP 443, TCP 902: Accessing VMware vSphere
Agent for VMware (Windows)
TCP 443
TCP 902
Virtual machines
Agent for VMware (Virtual Appliance)
VM
Agent for Windows
Agent for Linux
VM
ESX(i) host
ESX(i) host
VMware vCenter Server
VMware vSphere
To the cloud storage
To managed and unmanaged vaults

Encryption notes:

- 🔓: Traffic is not encrypted.
- **TCP 9876:** By default, traffic is encrypted. Encryption is configured through the Acronis administrative template.
- **TCP 443:** Traffic is encrypted by the HTTPS protocol.
- **TCP 44445, TCP 55556:** Traffic is encrypted.

Connection note:

- →**:** The arrow direction shows which component initiates a connection.

* **Registering:** Connection is initiated by either the management server or the agent, depending on which component triggers the registration process.
Managing: *The management server* initiates a connection to deploy centralized backup plans and collect logs. *An agent* initiates a connection to notify that the machine has come online or that its IP address has changed.