

Table of Contents

Stratusphere™ Requirements	2
Stratusphere™ Hub Appliance (SHA)	2
Stratusphere™ Database Appliance (SDA).....	2
Stratusphere™ Network Station (SNS).....	2
Stratusphere™ Software Download.....	3
Stratusphere™ Software Install – Customer Preparation	3
Stratusphere™ Installation Time Estimates	4

Stratusphere™ Requirements

Liquidware Labs Stratusphere™ has four components: Stratusphere™ Hub Appliance, Stratusphere™ Database Appliance, Connector ID Key, and Network Station. Here are some of the requirements for these components.

Stratusphere™ Hub Appliance (SHA)

Hypervisors Supported	VMware ESX 3.0 and higher, VMware ESXi 3.0 and higher, Citrix XenServer 5.5 and higher, and Microsoft Hyper-V on Windows 2008 R2 and higher. <i>Note: In an unlikely scenario where the appliances need to be run on VMware Player, VMware Server, and VMware Workstation we recommend the use of VMware Converter 4.x to convert the appliance file formats.</i>
Download Size	605MB
CPU	1 vCPU (capable of supporting multiple processors)
Memory	2GB for Monitoring < 500 machines, 4GB for Monitoring < 1000 machines.
Storage	6GB pre-allocated. Recommend adding a 30GB Drive for up to 1500 machines for 30days.

Stratusphere™ Database Appliance (SDA)

Stratusphere™ Database Appliance (SDA) is an optional component used to store information when more than 1,000 CID Keys are deployed.

Hypervisors Supported	VMware ESX 3.0 and higher, VMware ESXi 3.0 and higher, Citrix XenServer 5.5 and higher. <i>Note: In an unlikely scenario where the appliances need to be run on VMware Player, VMware Server, and VMware Workstation we recommend the use of VMware Converter 4.x to convert the appliance file formats.</i>
Download Size	350MB
CPU	2 vCPU (capable of supporting multiple processors)
Memory	8GB for Monitoring < 5,000 machines, 16GB for Monitoring < 10,000 machines.
Storage	30GB Drive for up to 1500 machines for 30days.

Stratusphere™ Network Station (SNS)

Hypervisors Supported	VMware ESX 3.0 and higher, VMware ESXi 3.0 and higher, Citrix XenServer 5.5 and higher. <i>Note: In an unlikely scenario where the appliances need to be run on VMware Player, VMware Server, and VMware Workstation we recommend the use of VMware Converter 4.x to convert the appliance file formats. Microsoft Hyper-V is not supported.</i>
Download Size	371MB
CPU	1 vCPU
Memory	512 MB.
Storage	3.5GB pre-allocated.

Stratusphere™ Software Download

1. Use our Download site: <http://www.liquidwarelabs.com/download>. Fill in the requested information and you can use the links to download our software for VMware and Citrix platforms.
2. If you are part of our Apache Partner Program, you can use your credentials to log into our Partner Portal at http://www.liquidwarelabs.com/project_apache/login.asp. Navigate to the software download page and download the appropriate files directly.

Stratusphere™ Software Install – Customer Preparation

1. Each Stratusphere™ virtual appliance (Hub & Station) needs the following during configuration:
 - a. Hostname
 - b. IP Address (static) (Required)
 - c. Network mask
 - d. Default Network Gateway IP Address
 - e. DNS Server IP Addresses
 - f. Mail Relay Servers (Optional)
 - g. NTP Servers (Recommended)
 - h. DNS entry name for the Stratusphere™ Hub IP Address (Strongly Recommended)**
2. Distribution of the Connector ID Key (CID) to the target desktops needs to be handled by the infrastructure team at the end user. The Standard CID Key local version installer in the form of an MSI will be provided to the software distribution team who would then be responsible for packaging, distribution, and installation of the CID Key on all targeted desktops. If the Standard CID Key Network version is used then the Active Directory Domain Administrators would be needed to create a new Group Policy Object to create Startup/Shutdown scripts to invoke out Network CID Key from a shared folder such as NETLOGON folder on an Active Directory Controller. Documentation for installation of the CID Key in various scenarios can be provided on request.
3. The Stratusphere™ Network Station installation will require modifications to the virtual switch networking configuration on your ESX hosts. If you need a Change Control to make changes, please go ahead and schedule it. The modifications will not affect any production VMs. Essentially, all existing production port groups will be locked into “Reject” promiscuous mode inherently keeping the original production configuration. The virtual switch will then be flipped into “Accept” promiscuous mode. A new “Monitor” port group will be added that will inherit the “Accept” promiscuous mode from its virtual switch. If the port group will monitor a specific VLAN ID then add its ID to the name “Monitor180”. You can specify either one VLAN ID or specify All VLANS (4095) to monitor all network traffic on the virtual switch.
4. The Stratusphere™ software components communicate between each other using TCP connections. Please ensure these ports are open and accessible between the components. Here is a list of TCP network ports used in communication between the Stratusphere™ Hub, Network Station and Connector ID Keys:

- a. Stratusphere™ Hub TCP/22 (SSH) : Console access to Stratusphere™ Hub
 - b. Stratusphere™ Hub TCP/443 (HTTPS) : Management UI
 - c. Stratusphere™ Hub UDP/5501 (CID Key) : Connector ID Key Communications
 - d. Stratusphere™ Hub TCP/5501 (CID Key) : Connector ID Key Communications
 - e. Stratusphere™ Hub TCP/5502 : Network Station Communications
 - f. Stratusphere™ Hub TCP/5444 : Reporting Database Access
 - g. Network Station TCP/5502 : Policy Communications
5. The Stratusphere™ UI can import user group and machine group information from any LDAP compliant name store (Microsoft Active Directory, Novell eDirectory). We can use a standard domain user account or better yet, a service account to import user group membership information. The account needs read-only permissions only since we do not update any information on the name store. However, in most organizations the group memberships may not be exactly what you expect to use since they may not be populated in the way we want to use them. Liquidware Labs recommends creating a CSV file with grouping information for users and machines which can then be imported into the Stratusphere™ UI. This form of import provides a better focus on how the output of the assessment deliverable can be grouped together. Here is the format of the UNIX based CSV text file:
- a. Machine Group/User Group CSV used by import script


```
machine-name1,group-name1
machine-name2,group-name1;group-name2;...;group-nameN
machine-name3,group-name2
machine-name4,group-name2;group-name3
```
 - b. User Group CSV used in the UI


```
group-name,user-name1;user-name2;...;user-nameN
```

Note: There is a difference in formats of the two files. To create a UNIX based text file, you can use open source applications like [Notepad++](#) that can convert to UNIX based text files.

Stratusphere™ Installation Time Estimates

Step	Task	Time Estimate
1.	Initial conference call with customer to explain the concept, requirements and preparation for the Assessment.	1 Hour. (T-1week before installation)
2.	Downloading of 1 Stratusphere™ Hub. Partner should ask the customer to download before we get on site or bring the software with on a DVD/USB Stick.	5min to 1 Hour depending on customer bandwidth.
3.	Configure ESX host for Promiscuous Port Group – change control may be required if the ESX is in production.	15 min.
4.	Install and configure 1 Stratusphere™ Hub & Station.	1 Hour.
5.	Import Active Directory/LDAP user and group information. If large numbers of user groups exist, we recommend using a manually created CSV file import.	1 Hour – depends on size.
6.	Provide the CID Key installer to customer Software Distribution team for pushing out to physical desktops.	

7.	Health-check #1 after two days.	1 Hour.
8.	Health-check #2 after three days.	1 Hour.
9.	Health-check #3 after four days.	1 Hour.