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# **ASTi IA Software Installation Procedure**

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Product Name: IA Software Package

ASTi IA Software Installation Procedure

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ASTi

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Red Hat ® Enterprise Linux

Red Hat ® Subscription

ASTi's Voisus software is designed to run on an installation of Red Hat® Enterprise Linux® client. This ensures optimal interoperability with ASTi's Voisus software, host routing software and external communications servers. As such included in the cold start DVDs is the complete installation of Red Hat® Enterprise Linux® client. This software is not activated to a current Red Hat subscription. It is the end users' responsibility to activate their subscription and connect to the Red Hat Network. The Red Hat subscription will provide the end user with support, maintenance, software and security updates. For details on Red Hat activation see the Red Hat web site:

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# Revision history

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# 1.0 Introduction

Information Assurance (IA) software installation requires the ASTi IA DVD. For a comprehensive list of DVD deliverables required for the IA Software Installation Guide, see the following document:

**ASTi IA DVD/docs/ IA\_Package\_Overview\_xxxx.pdf**

The IA Software Installation Guide applies to the following ASTi systems:

- Voisus Servers
- Telestra Servers running ACE Target and ACE Studio
- Virtual Machines (VMs) running ACE Studio

**For Telestra and Voisus customers:** before beginning IA Software Installation Guide, install the ASTi Options file with ACE Security (ACE-SEC) software on the ACE Target. To upload Options files, see the *ASTi Telestra 4 Remote Management System 4 User Guide (DOC-01-TEL4-RMS4-UG-4)*. To upload Options files on Synapse products, see the *Synapse Cold Start & Install Manual (DOC-01-SYN4-CSI-1)*.

**For SEC-TEL-0X customers:** ASTi does not provide Red Hat Network (RHN) patches. It is your responsibility to obtain RHN patches and maintain a valid RHN account.

**For active IA Maintenance customers:** ASTi provides RHN patches on the ACE-RHN DVD.

## 2.0 IA Software Installation Guide

The IA Software Installation Guide requires you to install ASTi software, apply Red Hat Network (RHN) updates, and execute the ASTi security script. The following sections describe how to complete these tasks.

### 2.1 Install ASTi IA software

To install ASTi IA software, follow these steps:

1. Log into the system using the following default credentials:

| Username | Password |
|----------|----------|
| root     | abcd1234 |

2. Insert the ASTi IA DVD into the DVD drive.
3. Type **mount /dev/dvd /media**, and press Enter.
4. Type **sh /media/install**, and press Enter. Wait for the installation to complete.
5. To eject the DVD, type **eject**, and press Enter. Remove the DVD from the drive.
6. Type **reboot**, and press Enter.



*Note: After the reboot, you can no longer log into the system as a root user.*



## 2.2 Apply RHN patches



**Important:** ASTi does not provide Red Hat Network (RHN) patches for SEC-TEL-0X customers. For site-specific RHN installation instructions and patch sets, see your IT administrator. After installing RHN patches, skip to Step 11.

To apply RHN patches, follow these steps:

1. Open a terminal window.
2. Log into the system using one of the following:

*Voisus Server:*

| Username | Password |
|----------|----------|
| astadmin | admin    |

*Telestra Server running ACE Target:*

| Username | Password |
|----------|----------|
| admin    | admin    |

*Telestra Server or virtual machine running ACE Studio:*

| Username | Password |
|----------|----------|
| aceuser  | aceuser  |



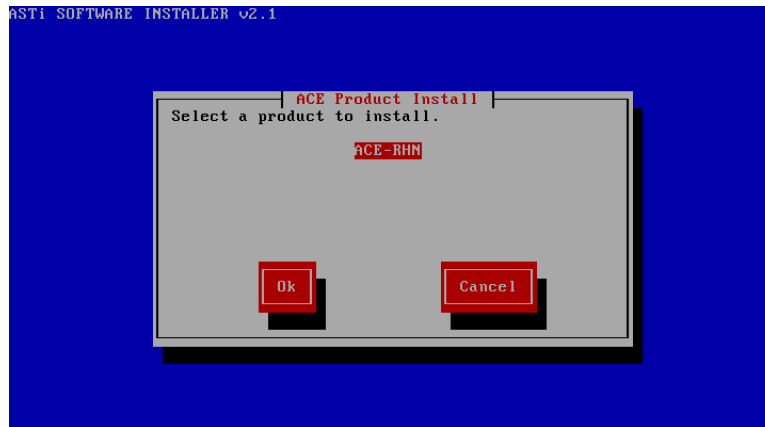
**Note:** If your organization changed these default credentials, check with your IT administrator for an updated username and password.

3. Once you log into the astiadmin account, su to root:

| Username | Password |
|----------|----------|
| su       | abcd1234 |

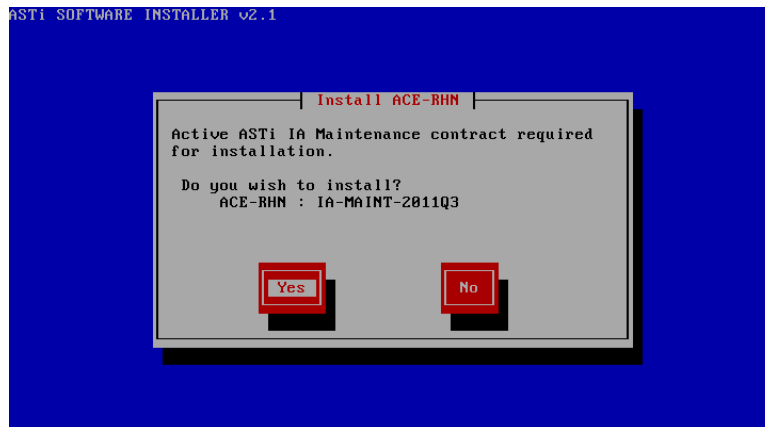
4. Insert the ACE-RHN DVD into the DVD drive.
5. To mount the DVD, type **mount /dev/dvd /media**, and press Enter.
6. Type **sh /media/install**, and press Enter.

7. On the ACE Product Install screen, select **Ok**, and press Enter.



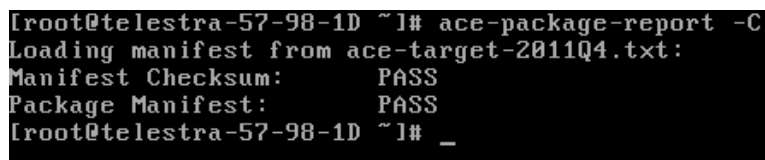
*Figure 1: ACE Product Install*

8. On the Install ACE-RHN screen, select **Yes**, and press Enter.



*Figure 2: Install ACE-RHN*

9. After the installation is complete, type **eject**, and press Enter.
10. Remove the DVD from the drive.
11. To verify that the system is configured per the current manifest, type **ace-package-report -C**, and press Enter.



*Figure 3: ACE package report*

12. To reboot the server, type **reboot**, and press Enter.

## Appendix A: ASTi software package manifest

The **ace-package-report** command generates the system software package manifest. See the specific syntax shown below:

**ace-package-report -h**

**usage: ace-package-report *options***

where *options* represents one of the command options in the table below.

| Command Options           | Details                     | Description   |
|---------------------------|-----------------------------|---|
| -h                        | --help                      | Show this help message and exit                                 |
| -a                        | -asti                       | List ASTi packages  |
| -b                        | --baseos                    | List Base OS packages   |
| -c                        | --commercial                | List Commercial packages  |
| -C                        | --checksum                  | Check current system against previously installed manifest file |
| -C MANIFEST<br>(optional) | --checksum =<br>MANIFEST    | Check current system against MANIFEST                           |
| -f OUTPUT                 | --outfile=OUTPUT            | Output Filename   |
| -m                        | --manifest                  | Generate Package Manifest                                       |
| -n                        | --names                     | List names of installed packages                                |
| -o                        | --opensource                | List Open Source packages                                       |
| -u                        | --unknown                   | List unknown vendor packages                                    |
| -v                        | --verbose                   | Enable debug output   |
| -d VENDOR DATA            | --vendordata<br>=VENDORDATA | Vendor data file  |

*Table 1: Command options*

To verify that the system you are installing matches the manifest that ASTi or another IA entity provided, type **ace-package-report -C**, and press Enter. If the system matches the manifest exactly, you will see the following:

```
Manifest Checksum: PASS
Package Manifest: PASS
```

When the system does not match the manifest exactly, the output varies based on the differences between the manifest and the system you are verifying. For example, if the system you are checking has a newer version of Network File System (NFS), you might see the following:

```
# ace-package-report -C
Manifest Checksum: PASS
Package Manifest: FAIL
Package Details:
    NEW: nfs-utils-1.0.9-40.el5(nfs-utils-1.0.8-40.el5)
```

However, if the manifest file itself was corrupted, the following might display:

```
# ace-package-report -C
Manifest Checksum: FAIL
Package Manifest: PASS
```

Various other findings such as new, old, removed and added packages also display, as applicable.

## Appendix B: Password policy compliance

The ASTi system is shipped with factory default passwords that do not comply with stringent password rules required by government security regulations. Passwords expire every 60 days on a hardened system, forcing the user to enter a new password during his or her next login via an automated dialog. This process enforces the stringent rules for the new password.

To view the current password age information, follow these steps:

1. Log into the system using the following default credentials:

| Username   | Password |
|------------|----------|
| astidadmin | admin    |



*Note: If your organization changed these default credentials, check with your IT administrator for an updated username and password.*

2. At the prompt, type **change -1 astidadmin**, and press Enter. The current password age information displays.

To change the default password before the 60 days has passed, force the passwords to expire immediately using the following commands:

1. At the prompt, type **change -d 0 astidadmin**, and press Enter.
2. Elevate to root using the following default credentials:

| Username | Password |
|----------|----------|
| su       | abcd1234 |

3. Type **change -d 0 root**, and press Enter.
4. To log out of the system, type **exit**, and press Enter.
5. When you log back in, the system will prompt you for a new password. Type the desired password for the **astidadmin** account, and press Enter.
6. At the prompt, elevate to root again:

| Username | Password |
|----------|----------|
| su       | abcd1234 |

7. At the prompt, type a new password for the root user. Your system passwords are now compliant.

## Appendix C: IA update installation

In addition to quarterly IA updates, some sites may also receive periodic updates. These electronic updates can be applied to an existing system and do not require a cold start. Before installing patches, ASTi recommends that you back up your system.

ASTi only provides an IA .ISO update if an information assurance vulnerability alert (IAVA) affects an ASTi system. In this context, critical IAVAs are those defined and published by the Defense Information System Agency (DISA).

ASTi delivers these patch sets electronically via secure download to a single point of contact for each IA Maintenance contract. You are responsible for generating a DVD from the .ISO file provided.

To install an IA update, follow these steps:

1. Create a DVD from the .ISO file that ASTi delivered electronically.



*Note: An .ISO file, also called a disk image, is a single file that is a copy of an entire data CD or DVD. When you burn a CD or DVD from an .ISO file, the new disk has the same folders, files, and properties as the original disk.*

2. Open a terminal window.
3. Log into your system using one of the following credentials:

*Voisus Server:*

| Username  | Password |
|-----------|----------|
| astiadmin | admin    |

*Telestra Server running ACE Target:*

| Username | Password |
|----------|----------|
| admin    | admin    |

*Telestra Server or virtual machine running ACE Studio:*

| Username | Password |
|----------|----------|
| aceuser  | aceuser  |

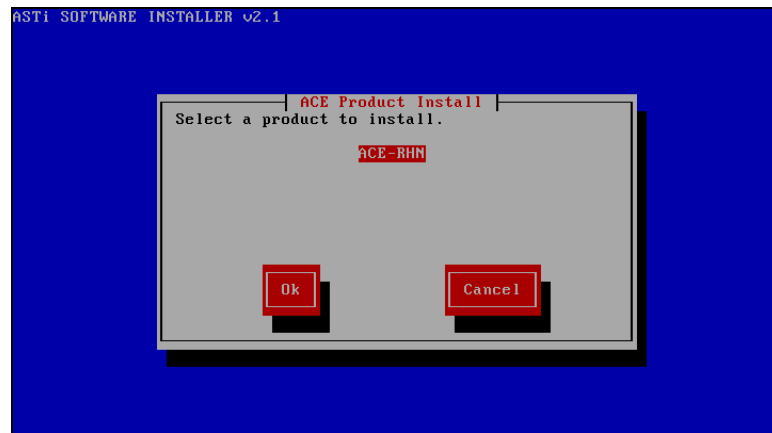


*Note: If your organization changed these default credentials, check with your IT administrator for an updated username and password.*

- Elevate to root using the following default credentials:

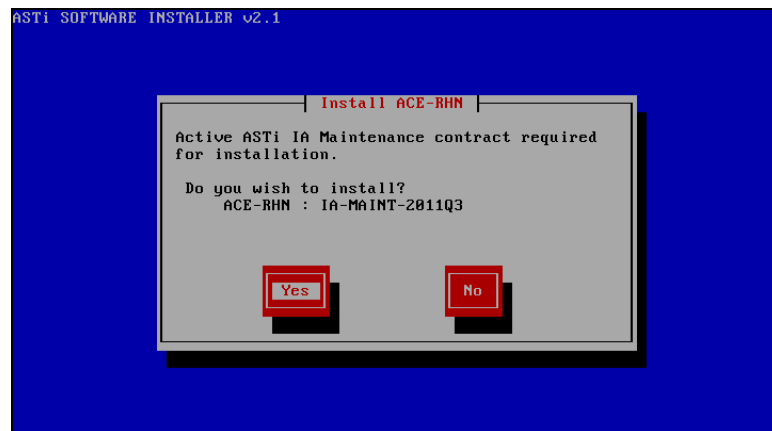
| Username | Password |
|----------|----------|
| su       | abcd1234 |

- Insert the DVD that you created in Step 1.
- To mount the DVD, type **mount /dev/dvd /media**, and press Enter.
- Type **sh /media/install**, and press Enter.
- Select **Ok**, and press Enter.



*Figure 4: ACE Product Install*

- Select **Yes**, and press Enter.



*Figure 5: Install ACE-RHN*

- After the installation is complete, type **eject**, and press Enter.

11. Log into the system using the following default credentials:

| Username | Password |
|----------|----------|
| root     | abcd1234 |

12. Type **secure\_telestra.sh**, and press Enter.
13. To reboot the system, type **reboot**, and press Enter.