

☐ Known Issues During First Launch (EC2 from AWS Marketplace)

This document contains a list of known issues that may occur during the initial launch of the EC2 instance when deploying BookStack via AWS Marketplace. These behaviors are considered normal and self-recovering in most cases.

⚠ 1. Transient DNF Cache Failures

Symptoms:

- `Cloud-init` fails with messages like:

```
[Errno 2] No such file or directory: '/var/cache/dnf/.../*.rpm'  
Failed to run module scripts-user
```

Cause:

- This issue is caused by a temporary inconsistency between metadata and actual RPM packages in Amazon Linux 2023 mirrors.
- It may also be triggered by race conditions within `cloud-init` (e.g., DNF downloads package, then cache becomes unavailable before install completes).

Workaround:

- The Auto Scaling Group will automatically replace the failed instance.
- On the second attempt, the packages are downloaded again and the process typically succeeds.

Recommendation:

- Add retry logic and DNF cache clearing in your user-data, such as:

```
dnf clean all
dnf makecache
retry dnf install -y ...
```

⚠️ 2. cloud-init Failure After SELinux Reboot

Symptoms:

- “⚠️ On Amazon Linux 2023, the system may reboot automatically on first launch to apply SELinux settings.
- “This may cause the initial cloud-init status to show as failed, even though the environment is ready.

Log shows:

```
Rebooting machine to apply SELinux kernel commandline setting
Failed to run module scripts-user
Ran 20 modules with 1 failures
```

Workaround:

- The system reboots automatically and continues working fine.
- No action is required — this is an expected behavior.
- **Optional:** Use the following `EC2AMI` parameter value: `/aws/service/ami-amazon-linux-latest/al2023-ami-kernel-default-arm64`.

⚠️ 3. Duplicate Welcome Message in Shell

Symptoms:

```
sh-5.2$ sudo su - ec2-user
```

```
Last login: Tue Apr 8 08:03:38 UTC 2025 on pts/1
```

```
Welcome to your EC2 instance!
```

```
-----  
Operating System: GNU/Linux
```

```
Hostname: ip-172-31-7-183.ec2.internal
```

```
Current Date and Time: Tue Apr 8 08:14:25 UTC 2025
```

```
-----  
Welcome to your EC2 instance!
```

```
-----  
Operating System: GNU/Linux
```

```
Hostname: ip-172-31-7-183.ec2.internal
```

```
Current Date and Time: Tue Apr 8 08:14:25 UTC 2025
```

Cause:

- The base AMI used by AWS during scanning includes pre-installed user-data scripts or messages, and this overlaps with your current user-data.

Resolution:

- **Ignore** — has no effect on functionality.
- **Optional:** Use the following `EC2AMI` parameter value: `/aws/service/ami-amazon-linux-latest/al2023-ami-kernel-default-arm64`.

⚠ 4. EC2 Instance Logs Are Not Persisted to File

Symptoms:

- File `/var/log/journal/log-export.log` is missing after instance launch.

Cause:

- The logging unit contains a misconfigured `ExecStart` command in the file: `/etc/systemd/system/journald-export.service`

Incorrect line:

```
ExecStart=/bin/bash -c "journalctl -f -o short-iso > tee -a /var/log/journal/log-export.log"
```

Correct line should be:

```
ExecStart=/bin/bash -c "journalctl -f -o short-iso > /var/log/journal/log-export.log"
```

Resolution:

```
sudo systemctl daemon-reload  
sudo systemctl enable --now journald-export.service  
sudo systemctl start journald-export.service
```

Summary

These issues do not indicate a failure of the product, but are a result of how `cloud-init`, Amazon Linux 2023, and Marketplace validation behave.

“☐ The duplicate welcome screen and missing EC2 instance logs are known issues and will be addressed in a future release.

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