

# Cloud - Cloud Endure

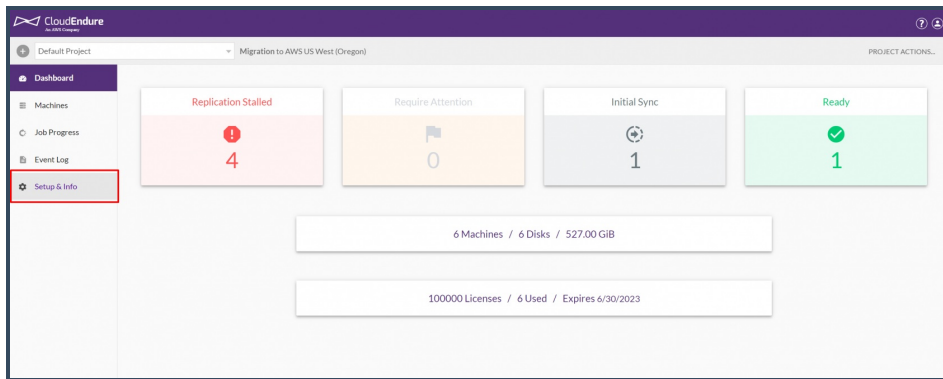
01/04/2024 12:17 pm EST

Cloud Endure gives us the ability to replicate machines from our data center to AWS ensuring that the VM's are up-to-date with one another before the live cut-over.

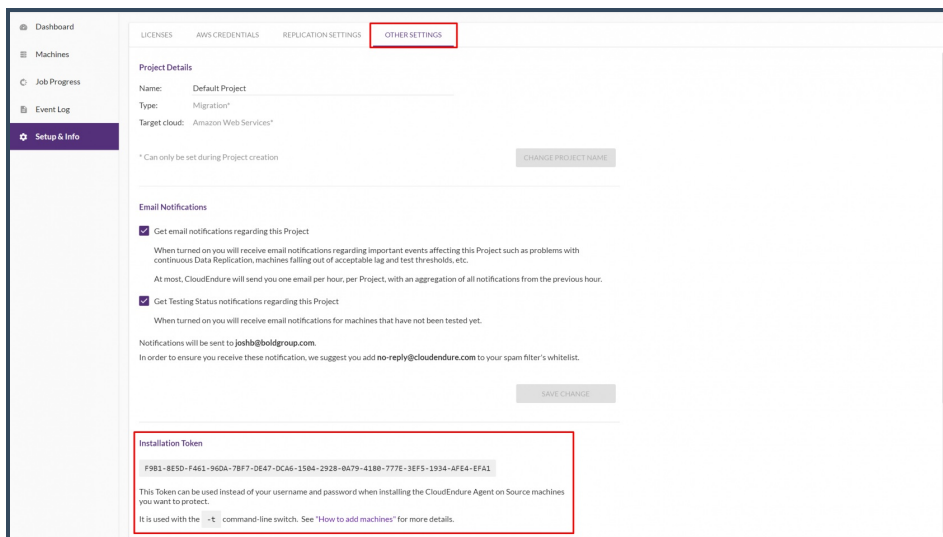
Follow the Below steps to start replicating a VM:

1.) Log into [CloudEndure](#)

2.) Click Setup and Info



3.) Click Other Settings and scroll down to the Installation Token and click "How to add machines".



4.) Open the virtual machine that you are wanting to replicate.

5.) Right Click on Download the Agent Installer for Windows and click Copy Link Address

**How To Add Machines**

In order to add a machine to this User Console, install the CloudEndure Agent on the machine. Data Replication begins automatically upon Agent installation.

**Your Agent Installation Token:**

[Redacted Token]

To generate a replacement Installation Token, go to [Setup & Info > Other Settings](#)

**For Linux machines**

Download the CloudEndure Agent Installer for Linux:

```
wget -O ./installer_linux.py https://console.cloudendure.com/installer_linux.py
```

Then run the Installer and follow the instructions:

```
sudo python ./installer_linux.py -t [Redacted Token] --no-prompt
```

**For Windows machines**

Download the [Agent Installer for Windows](#), then launch using this command:

```
installer_win.exe -t [Redacted Token] --no-prompt
```

**Additional help and information**

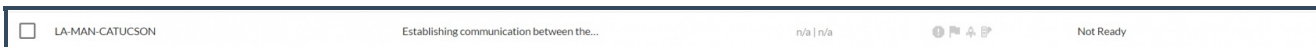
Click the help icon (?) at any time to access these instructions or our comprehensive documentation.

CLOSE

- 6.) Paste the URL that you copied in a browser and download that .exe file.
- 7.) Open an elevated command prompt
- 8.) Navigate to the downloads directory and copy / past the command in the screenshot in step 5
- 9.) This will take a few minutes as it will establish communication with the agent and pull disks on the VM that will be replicated.

```
C:\Users\administrator.CO-ManitouCloud\Downloads>installer_win.exe -t
--no-prompt
The installation of the CloudEndure Agent has started.
Connecting to CloudEndure Console... Finished.
Checking the disk free space.
Identifying disks for replication.
Disk to replicate identified: c:\0 of size 80.0 GiB
All disks for replication were successfully identified.
Downloading CloudEndure Agent... Finished.
Installing CloudEndure Agent... Finished.
Adding the Source machine to CloudEndure Console... Finished.
Instance ID: 35276127538266.
Installation finished successfully.
```

- 10.) Once the above step has been completed, the VM will exist in Cloud Endure.



- 11.) Open the VM in Cloud Endure and click "Blueprint"

\* The Subnet and Security Group must be updated to what is used in AWS

\* The Private IP needs to be change to custom and then an IP needs to be assigned (use the same last octet as what is currently used)

\* Change Public IP to "No"

\* Click "Save"

Details for "LA-MAN-CATUCSON"

MACHINE DASHBOARD

- Initiating Data Replication
  - Initiation started on 7/9/2020, 8:48:44 AM
  - Replication initiation will restart in 24 minutes
- Firewall rules created
- Replication Server created
- Replication Server booted
- Resolved CloudEndure Service Manager address in the Replication Server
- Authenticated the Replication Server with the CloudEndure Service Manager
- Downloaded the CloudEndure replication software to the Replication Server
- Created staging disks
- Attached the staging disks to the Replication Server
- Paired the CloudEndure Agent with the Replication Server
- Establishing communication between the CloudEndure Agent and the Replication Server

ACTIONS... LAUNCH TARGET MACHINE ▾

SOURCE BLUEPRINT REPLICATION SETTINGS

Use this form to edit the properties of the Target machines you intend to launch on Amazon Web Services.

Note:  
This will affect only machines launched after you save this Blueprint but NOT modify machines already launched.  
We have marked the recommended machine type which we calculated based on the RAM and CPUs on the Source.

Machine Type  
Copy Source ▾

Launch Type  
On demand ▾

Subnet  
Create new ▾

Security group  
Create new ▾

The default security group includes ports 80, 443, 22 and 3389 open.  
Therefore, using this security group is only recommended for testing purposes and it's not recommended for production workloads.  
Please select a different security group for a different configuration.

Private IP  
Custom ▾

Private IP address  
xxx.xxx.xxx.xxx

Elastic IP  
None ▾

Public IP (ephemeral)  
No ▾

Reset changes RESET CHANGES SAVE BLUEPRINT

12.) Click "Replication Settings"

\* Instance Type needs to be set to T2.medium

\* Subnet and Security Groups need to be set to what is used for your AWS environment

\* Staging Area Disks needs to be set to "Use slower, low cost standard data disks"

\* c:0 needs to be set to "Use General Purpose SSD"

\* Click "Save"

Details for "LA-MAN-CATUCSON"

MACHINE DASHBOARD

- Initiating Data Replication
  - Initiation started on 7/9/2020, 8:48:44 AM
  - Replication initiation will restart in 21 minutes
- Firewall rules created
- Replication Server created
- Replication Server booted
- Resolved CloudEndure Service Manager address in the Replication Server
- Authenticated the Replication Server with the CloudEndure Service Manager
- Downloaded the CloudEndure replication software to the Replication Server
- Created staging disks
- Attached the staging disks to the Replication Server
- Paired the CloudEndure Agent with the Replication Server
- Establishing communication between the CloudEndure Agent and the Replication Server

ACTIONS... **LAUNCH TARGET MACHINE**

SOURCE BLUEPRINT REPLICATION SETTINGS

### Replication Servers

Replication Servers are small machines used to facilitate data replication. They are automatically launched in the Staging Area and discarded when no longer needed. [Learn about falling back to "Other Infrastructure"](#).

Choose the Replication Server instance type:  
t2.medium

Choose the Converter instance type:  
c3.large

Choose if each source machine should have a dedicated Replication Server:  
 Use a dedicated Replication Server for this machine [learn more](#)

Choose the subnet where the Replication Servers will be launched:

Choose the Security Groups to apply to the Replication Servers:

Choose how data is sent from the CloudEndure Agent to the Replication Servers:  
 Use VPN or DirectConnect (using a private IP) [learn more](#)

Define whether to route communication from the Replication Server via a proxy:  
https://host.name :port

Enable volume encryption

### Staging Area Disks

Choose the default disk type to be used by the Replication Servers (SSD disks are faster; HDD disks cost less. [learn more](#))  
Use slower, low cost standard data disks

Choose which disk type to use for each of the source disks:  
c:0 Use General Purpose SSD

13.) Once you have completed the above changes, the VM should start replicating.