

How to install CentOS 7.9 in AWS cloud

Prerequisites:

Customer already has an AWS account (with privileges to launch required EC2 instances)	<i>Squire's Install Team has suggested:</i>
	System size (small, medium or large) for the project
	Usable instance types for this SVI deployment
	Deployment in single or multiple Availability Zones
	The usage of an existing VPC/subnet or need for a new ones
	Tenancy options

Procedure:

1. Before logging into AWS console, navigate to <https://aws.amazon.com/>
2. Choose **AWS Marketplace** and then **Operating Systems** under Categories.
3. One of the top results is **CentOS 7 (x86_64) - with Updates HVM** provided by **Centos.org**
4. Select it to see a product overview then click **Continue to Subscribe** button.
5. You will be directed to log into your AWS console.
6. **Sign in** then click **Continue to Configuration** button; a new page opens. Please set the following options:
 - 6.1. Delivery Method is **64-bit (x86) Amazon Machine Image (AMI)**
 - 6.2. Software Version is **2002-01 (Mar 16, 2020)**
 - 6.3. Region: select the **region** where you want to deploy to.
7. Click **Continue to Launch** button. On the next page Choose Action – **Launch through EC2**
8. Click **Launch** button.
9. Next, you'll need to select an appropriate instance type for the SVI as per consultation with Squire's Install team. Click **Next: Configure Instance Details** button.

Maintain all default settings unless specified below:

 - 9.1. **Network:** choose an existing or create a new VPC (as per consultation with Squire's Install team).
 - 9.2. **Subnet:** choose an existing or create a new VPC (as per consultation with Squire's Install team).
 - 9.3. **Shutdown behavior:** Stop
 - 9.4. **Enable termination protection:** tick
 - 9.5. **Tenancy:** select an option (as per consultation with Squire's Install Team).



- 9.6. **Network interfaces:** Primary IP=x.x.x.x (as per design; do not leave it as Auto-assign)
(Additional Devices and Primary IPs can be added if needed in this section.)
10. Click **Next: Add Storage** button
 - 10.1. Set size to **500GiB**
 - 10.2. Volume type: **gp3** or better
11. Click **Next: Add Tags** button
12. Click **Add Tag** button
 - 12.1. Key: **Name**
 - 12.2. Value: set a **meaningful name** for the instance (eg. svi mg single)
13. Click **Next: Configure Security Group** button
14. Select **Create a new security group** radio button and add a meaningful name
(rules will have to be adjusted at later time)
15. Click **Review and Launch** button then the **Launch** button
16. Next you have the option to **Choose an existing key pair** or **Create a new key pair**
17. Click **Download Key Pair** button and a *.pem file will be stored on the local computer
18. Click **Launch Instances** button. AWS will now launch a new instance.
19. To view it click **View Instances** button at the bottom of the screen.

Check network configuration and update the system:

AWS automatically sets up networking at launch. Once the instance is running, **log in using SSH protocol** and test networking by pinging an external target (e.g. ping www.yahoo.com). Assumption is that instance will be launched in a public subnet or external access uses a NAT Gateway or NAT instance.

Update Linux packages using: **yum update** then **reboot**.

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