

# Optiwave AWS User Guide

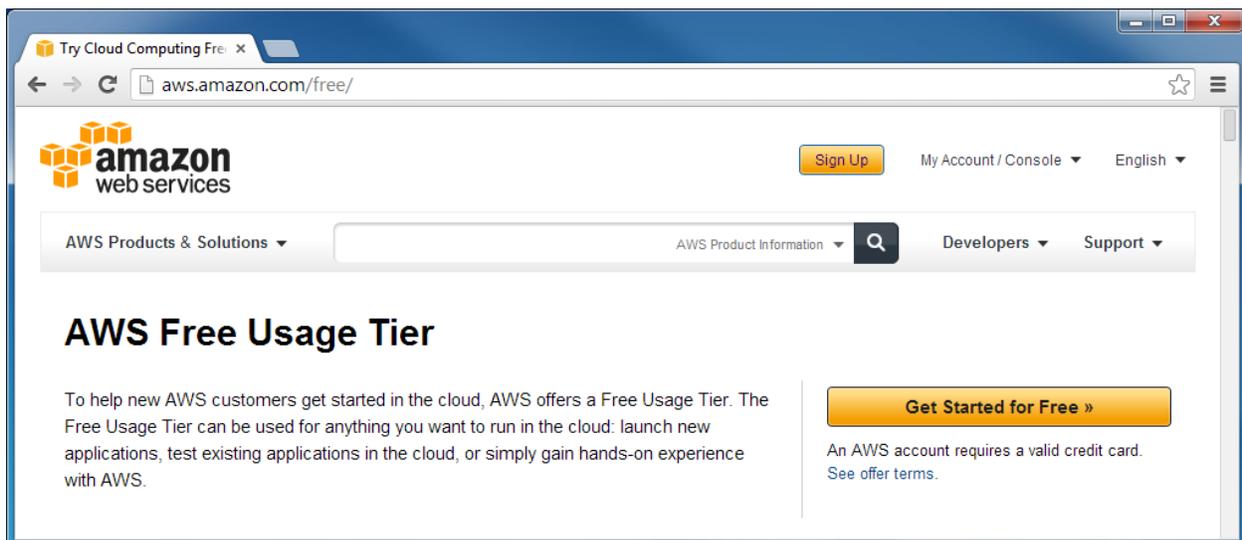
This guide describes the process of running Optiwave Products on Amazon Web Services (AWS).

## Purchase a Subscription

AWS versions of Optiwave Products are offered on a subscription basis. Please purchase a subscription software license from our sales department prior to using this Amazon instance. As part of the subscription process, you can request a special license file that will enable you to use the product on AWS. Additional fees for computational resources (instances) are applied and charged by AWS - please consult the [Amazon EC2 Pricing](#) page for details.

## Create an AWS Account

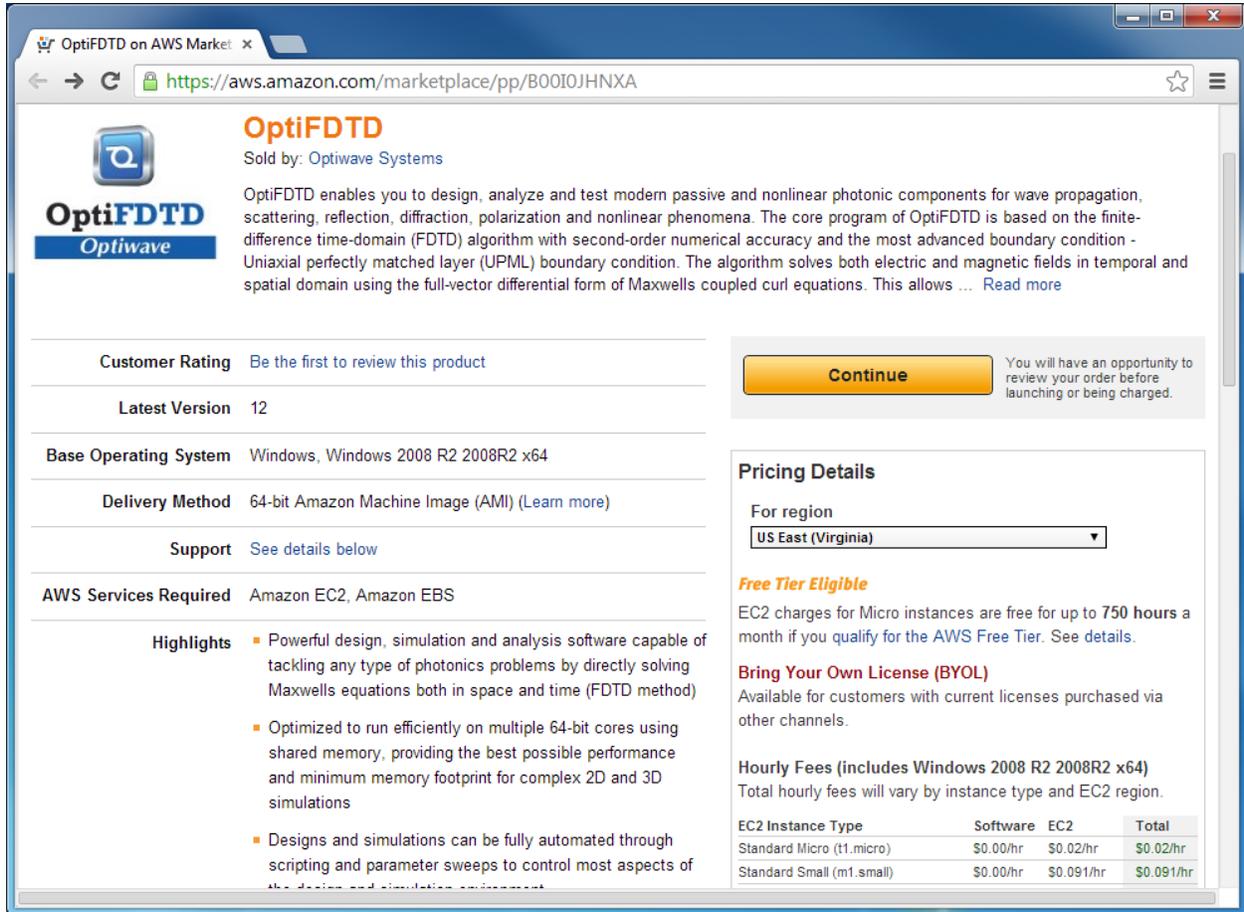
If you don't already have an AWS Account, you need to create one. Signing up for AWS is free and new users can currently enjoy the Free Usage Tier for one year. More information is available at the AWS site.



Navigate to <http://aws.amazon.com/> and press the Sign up button. You will be asked for your email address, name, address, phone number, and a credit card. The phone number will be verified via an automatic callback system. The whole process will take at most 5 minutes.

## Launch the Product Instance

Optiwave Amazon instances are provided through the AWS Marketplace - an online store for Amazon cloud software. The easiest way to find and launch product instances is to navigate to <https://aws.amazon.com/marketplace> and log in using your AWS account. You can search for Optiwave or any specific product name. The main Optiwave AWS product listing is available at [https://aws.amazon.com/marketplace/seller-profile/ref=srh\\_res\\_product\\_vendor?ie=UTF8&id=d35963a8-8672-499b-a09e-9ec4009975a9](https://aws.amazon.com/marketplace/seller-profile/ref=srh_res_product_vendor?ie=UTF8&id=d35963a8-8672-499b-a09e-9ec4009975a9). Each product page includes pricing information for using specific AWS instance types.



The screenshot shows the AWS Marketplace product page for OptiFDTD. The page includes a product description, customer rating, latest version, base operating system, delivery method, support, and AWS services required. It also features a 'Continue' button, pricing details for different EC2 instance types, and a table of hourly fees.

**OptiFDTD**  
Sold by: Optiwave Systems

OptiFDTD enables you to design, analyze and test modern passive and nonlinear photonic components for wave propagation, scattering, reflection, diffraction, polarization and nonlinear phenomena. The core program of OptiFDTD is based on the finite-difference time-domain (FDTD) algorithm with second-order numerical accuracy and the most advanced boundary condition - Uniaxial perfectly matched layer (UPML) boundary condition. The algorithm solves both electric and magnetic fields in temporal and spatial domain using the full-vector differential form of Maxwells coupled curl equations. This allows ... [Read more](#)

**Customer Rating** Be the first to review this product

**Latest Version** 12

**Base Operating System** Windows, Windows 2008 R2 2008R2 x64

**Delivery Method** 64-bit Amazon Machine Image (AMI) ([Learn more](#))

**Support** [See details below](#)

**AWS Services Required** Amazon EC2, Amazon EBS

**Highlights**

- Powerful design, simulation and analysis software capable of tackling any type of photonics problems by directly solving Maxwells equations both in space and time (FDTD method)
- Optimized to run efficiently on multiple 64-bit cores using shared memory, providing the best possible performance and minimum memory footprint for complex 2D and 3D simulations
- Designs and simulations can be fully automated through scripting and parameter sweeps to control most aspects of the design and simulation environment

**Continue** You will have an opportunity to review your order before launching or being charged.

**Pricing Details**

For region  
US East (Virginia)

**Free Tier Eligible**  
EC2 charges for Micro instances are free for up to 750 hours a month if you qualify for the AWS Free Tier. See details.

**Bring Your Own License (BYOL)**  
Available for customers with current licenses purchased via other channels.

**Hourly Fees (includes Windows 2008 R2 2008R2 x64)**  
Total hourly fees will vary by instance type and EC2 region.

EC2 Instance Type	Software	EC2	Total
Standard Micro (t1.micro)	\$0.00/hr	\$0.02/hr	\$0.02/hr
Standard Small (m1.small)	\$0.00/hr	\$0.091/hr	\$0.091/hr

The first time, you will need to Subscribe to the product by Accepting the Terms of the End User License Agreement. Once subscribed, you can press Continue to bring you to the launching page. You can use the 1-Click Launch functionality to quickly launch the software with the desired settings. Please select the appropriate EC2 Instance Type to minimize your AWS computational resource costs.

AWS Marketplace: OptiFD x

← → ↻ [https://aws.amazon.com/marketplace/ordering/ref=dtl\\_psb\\_continue?ie=UTF8&productid=11f924a4-dd90-46d5-z](https://aws.amazon.com/marketplace/ordering/ref=dtl_psb_continue?ie=UTF8&productid=11f924a4-dd90-46d5-z) ☆ ☰

## Launch on EC2:

### OptiFDTD

**1-Click Launch**  
Review, modify, and launch

**Launch with EC2 Console**  
Info for EC2 Console or API Launches

**Accept Terms & Launch with 1-Click**

**Click "Accept Terms & Launch with 1-Click" to launch this software with the settings below**

Once you accept the terms, you will have access to launch any version of this software in any supported region. For future launches, you can return to this page or launch directly from the EC2 console.

▶ **Version**  
12, released 01/23/2014

▶ **Region**  
US East (Virginia)

▼ **EC2 Instance Type**

Standard Micro (t1.micro)	<b>Memory</b>	613 MiB
Standard Small (m1.small)	<b>CPU</b>	Up to 2 EC2 Compute Units (for short periodic bursts)
Standard Medium (m1.medium)	<b>Storage</b>	EBS storage only
Standard Large (m1.large)	<b>Platform</b>	64-bit
Standard XL (m1.xlarge)	<b>Network performance</b>	Very Low
High-Memory XL (m2.xlarge)	<b>API Name</b>	t1.micro
High-Memory 2XL (m2.2xlarge)	<b>Free Tier Eligible</b>	
High-Memory 4XL (m2.4xlarge)		
High-CPU Medium (c1.medium)		

▶ **Monthly Estimate** **\$14.40**  
Standard Micro instance  
Assumes 24x7 use over 30 days

**If Free Tier eligible** **\$0.00**

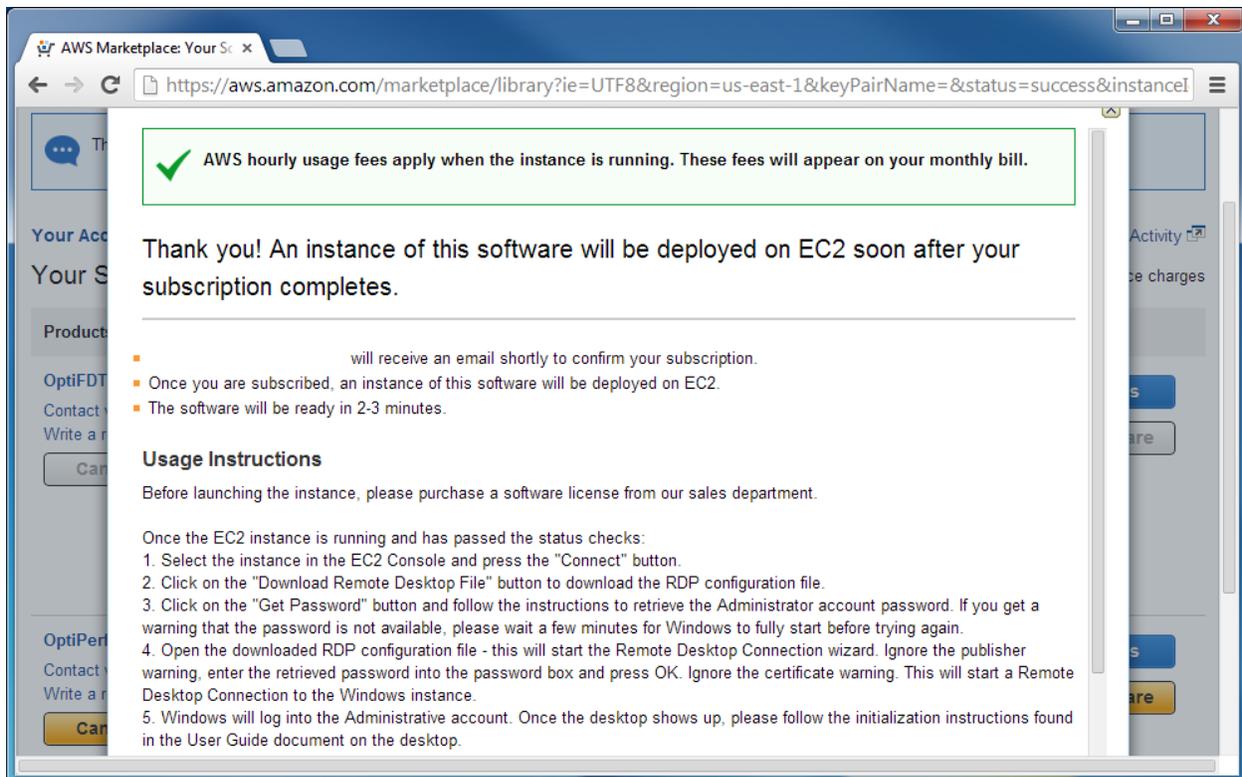
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For region US East (Virginia)

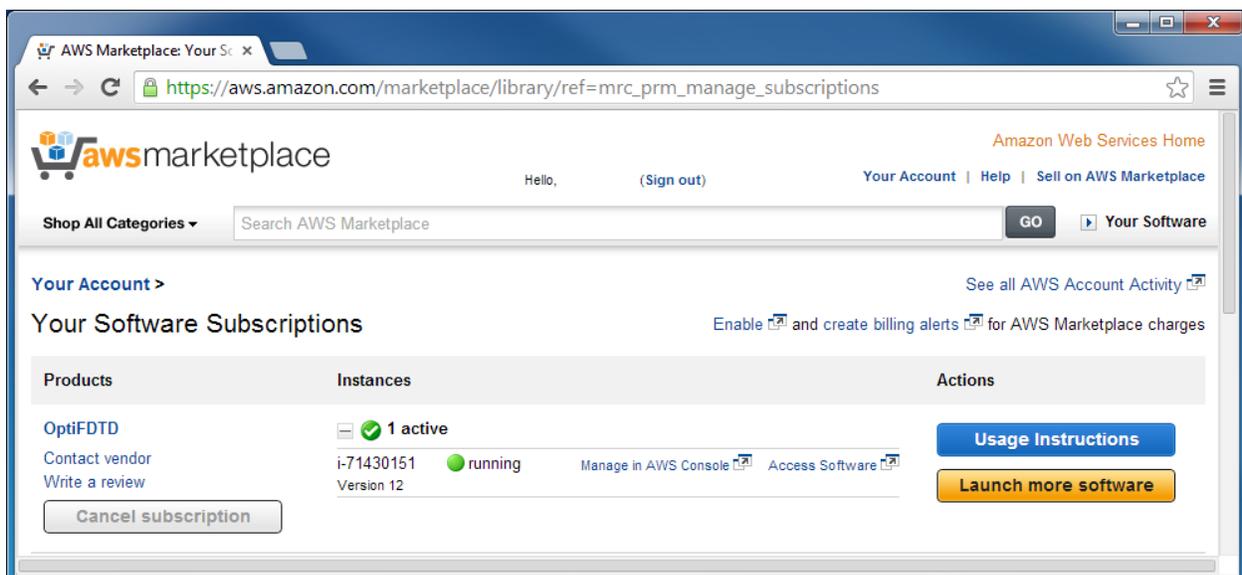
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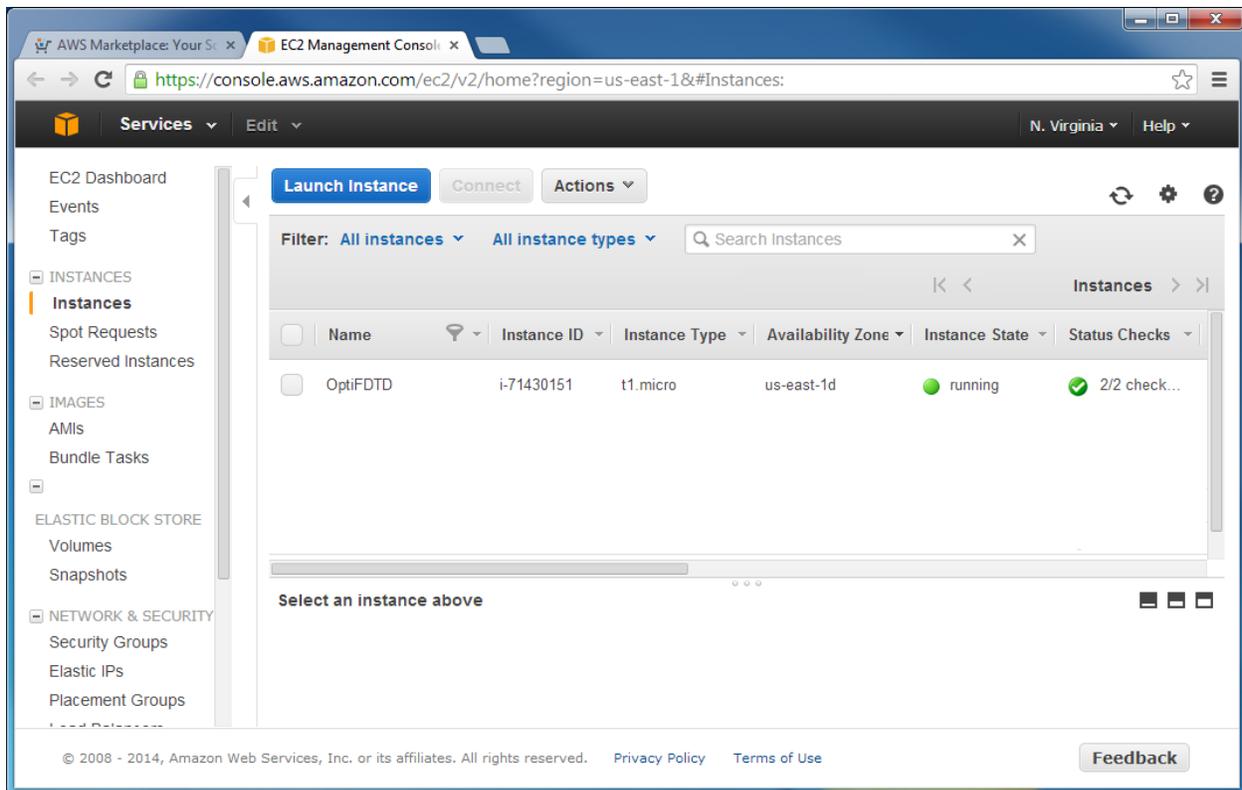
After using 1-Click Launch, you will be provided with some usage instructions on how to connect to your instance. These instructions can also be found by following the Connect functionality in the EC2 Console. You will also receive an email confirmation.



You can refresh the subscriptions page until the instance status changes to "running". You can click on the Manage in AWS Console link to go directly to the AWS Console.



This console allows you to manage all your instances. Once the status checks show 2/2, select the instance and press the Connect button.



## Connect to the Instance

The Connect page provides two links. The Download Remote Desktop File button allows you to download the Remote Desktop connection file. This file stores the address and username of your EC2 instance. The Get Password button allows you to retrieve the random Administrator password for the instance. You need to supply the key pair used to create the instance. This password can be changed at any time after logging into the Windows instance. Download the remote desktop file, run it, enter the password and connect to the instance. Once connected, please consult the product specific EC2 user guide document (accessible through the desktop) on how to initialize the licensing and start using the product.

