Deploy WordPress for Intel Packaged by Bitnami using AWS Cloud Marketplace

WordPress for Intel is a ready-to-run solution with enhanced security and performance. The WordPress for Intel virtual machine (VM) image is packaged with an optimized software stack to utilize the Intel® Advanced Encryption Standard New Instructions set (AES-NI) offered on the 3rd Gen Intel® Xeon® Scalable Processor known as Ice Lake. In addition, the encryption instructions pair with algorithmic and software innovations to deliver breakthrough performance for the industry’s most widely deployed cryptographic ciphers.

This Quick Start document is a step-by-step guide to deploy WordPress for Intel packaged by Bitnami on the AWS M6i Ice Lake instances that enables the Intel Optimized Cloud Stack for NGINX.

What does the WordPress for Intel package include?
WordPress for Intel includes the following pre-compiled binaries:

<table>
<thead>
<tr>
<th>Intel Optimized Library</th>
<th>Minimum Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Async Nginx</td>
<td>0.4.5</td>
</tr>
<tr>
<td>QAT Engine</td>
<td>0.6.5</td>
</tr>
<tr>
<td>IPP Crypto</td>
<td>2021.2</td>
</tr>
<tr>
<td>IPsec Crypto</td>
<td>1.0.0</td>
</tr>
</tbody>
</table>

Prerequisites
This quick follow-along guide expects the following prerequisites:

- An AWS account with EC2. Visit [Get Started with AWS EC2](#) for more information.
- WordPress for Intel package requires an Ice Lake instance.
Let's deploy the WordPress for Intel from the AWS marketplace

1. **Choose and configure WordPress for Intel image:**
   Visit the [WordPress for Intel AWS Marketplace page](#) and click the **Continue to Subscribe** button.

   ![AWS Marketplace](image1)

   **Product Overview**
   WordPress for Intel is the most popular blogging application combined with a highly optimized software stack including asynchronous NGINX. This VM image accelerates the processing of the Transport Layer Security (TLS) significantly by using built-in Intel crypto acceleration included in the latest Intel 3rd gen Xeon Scalable Processor (Ice Lake).

   **Highlights**
   - Image is packaged with Asynchronous NGINX and optimized Intel(R) IPP Cryptography library.

   ![Subscription](image2)

   a. **Subscribe to WordPress for Intel on AWS EC2:**
      Subscription may require accepting Terms and Conditions for Bitnami to subscribe successfully. Once the subscription is successful, Click **Continue to Configuration**.
b. **Configure software:**

Select the **Fulfilment option** as 64-bit (x86) Amazon Machine Image. Next, choose the **Software version.** It is recommended to select the latest up-to-date version. Finally, you must select the **Region** where Ice Lake is available.

AWS M6i instances are Ice Lake. The current regions of availability are:

- US East (Ohio), US East (N. Virginia)
- US West (N. California), US West (Oregon)
- Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo)
- Europe (Frankfurt), Europe (Ireland), Europe (Paris), and South America (São Paulo)

For up-to-date information, visit [Amazon EC2 M6i Instances](#).

Once all configurations are selected, select **Continue to Launch.**

c. **Launch WordPress for Intel software:**

Review all configurations are correct. Then, choose Launch **Action** through **Launch through EC2 console** and click **Launch.**
2. Choose and configure instance:
   a. Choose instance type:
      Next, choose the **Instance Type**. Filter the Instance Type list by m6i family to view all the instance size options.
b. **Configure instance:**
Select the rest of the configurations (Network, Storage, Tags, and Security) according to your WordPress needs. We must either create a new **Network VPC** and **Subnet** or choose an existing one.

c. **Review and launch instance:**
The last step of the deployment is to review all configurations. Finally, click **Launch**.
Clicking on **Launch** opens a pop-up window to select or create a key pair. Next, **acknowledge** the selection/creation of a key pair and click **Launch Instances**.

![Select an existing key pair or create a new key pair](image)

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about **removing existing key pairs from a public AMI**.

- **Choose an existing key pair**
- **Select a key pair**
  - [qs-test | RSA]

- I acknowledge that I have access to the corresponding private key file, and that without this file, I won’t be able to log into my instance.

![Launch Instances button](image)

- **Cancel**
- **Launch Instances**

**d. Verify launch status:**

**Launch Instances** initiates the deployment process and waits for it to complete. Once completed, a green checkmark and instance link with id is displayed. Click the instance id link.
e. Instance details and management:
The link navigates to a page with instance details, state, and management options. For example, we can verify the instance’s running state, edit the Instance Name, and view the IPv4 address of the instance.
3. **Launch WordPress for Intel instance default webpage:**
   Copy the **public IPv4 address** and paste it into the web browser, and the default WordPress site should launch in the web browser. For best-known practices and next steps, visit Bitnami’s [Get started With WordPress (For Beginner)] and [Intermediate Users].

---

**Connect with us**
Connect with Intel product experts to ask questions at [Intel Collective at Stack Overflow].
Visit the Bitnami community for queries regarding the WordPress for Intel package.

Learn More

Amazon EC2 M6i Instances

Notices & Disclaimers

Intel technologies may require enabled hardware, software or service activation.

No product or component can be absolutely secure.

Your costs and results may vary.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others.