

InterSystems Official
[Steven LeBlanc](#) · May 13, 2020

InterSystems IRIS Now Available on AWS Graviton2-based Amazon EC2 Instances

AWS has officially released their second-generation Arm-based [Graviton2](#) processors and associated Amazon EC2 M6g instance type, which boasts [up to 40% better price performance](#) over current generation Intel Xeon based M5 instances.

A few months ago, InterSystems participated in the M6g preview program, and we ran a few benchmarks with InterSystems IRIS that showed [compelling results](#). This led us to [support ARM64](#) architectures for the first time.

Now you can try [InterSystems IRIS](#) and [InterSystems IRIS for Health](#) on Graviton2-based Amazon EC2 M6g instances for yourselves through the AWS Marketplace!

If you 're unfamiliar with launching an instance through the AWS Marketplace, let 's walk through setting it up. First make sure that you 're logged into your AWS Account, then navigate to the AWS Marketplace listing for [InterSystems IRIS](#) and click 'Continue to Subscribe '.

The screenshot shows the AWS Marketplace interface for the InterSystems IRIS (Arm64) Community Edition. The top navigation bar includes 'Categories', 'Delivery Methods', 'Solutions', 'Migration Mapping Assistant', 'Your Saved List', 'Partners', 'Sell in AWS Marketplace', 'Amazon Web Services Home', and 'Help'. The main content area displays the product name, version, and a 'Continue to Subscribe' button, which is highlighted with a red arrow. Below this button is a 'Save to List' button and a pricing box showing a typical total price of \$0.102/hr. The page also includes tabs for Overview, Pricing, Usage, Support, and Reviews.

Product Overview


InterSystems IRIS is a complete data platform that provides developers with the freedom to choose the language and data model best suited to rapidly develop their applications. Developer-oriented features include:

- Multi-model database engine with support for relational, document, object, key value, and multidimensional data types (Globals)

Highlights

- Multi-model database engine with support for relational, document, object, key value, and multidimensional data types (Globals)

Click 'Accept Terms ' to subscribe, wait for a minute, and then 'Continue to Configuration '.



InterSystems IRIS (Arm64) Community Edition

Continue to Configuration

You must first review and accept t

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Subscribe to this software

To create a subscription, review the pricing information and accept the terms for this software.

Terms and Conditions

InterSystems Corporation Offer


By subscribing to this software, you agree to the pricing terms and the seller's [End User License Agreement \(EULA\)](#). You also agree and acknowledge that AWS may share information about this transaction (including your payment terms) with the respective seller, reseller or underlying provider, as applicable, in accordance with the [AWS Privacy Notice](#). Your use of AWS services is subject to the [AWS Customer Agreement](#) or other agreement with AWS governing your use of such services.

Accept Terms

The following table shows pricing information for the listed software components. You're charged separately for your use of each component.

InterSystems IRIS (Arm64) Community Edition	Additional taxes or fees may apply.										
<table><thead><tr><th>EC2 Instance Type</th><th>Software/hr</th></tr></thead><tbody><tr><td>m6g.medium</td><td>\$0</td></tr><tr><td>m6g.large</td><td>\$0</td></tr><tr><td>m6g.xlarge</td><td>\$0</td></tr><tr><td>m6g.2xlarge</td><td>\$0</td></tr></tbody></table>	EC2 Instance Type	Software/hr	m6g.medium	\$0	m6g.large	\$0	m6g.xlarge	\$0	m6g.2xlarge	\$0	
EC2 Instance Type	Software/hr										
m6g.medium	\$0										
m6g.large	\$0										
m6g.xlarge	\$0										
m6g.2xlarge	\$0										

You can accept the defaults, and 'Continue to Launch'



InterSystems IRIS (Arm64) Community Edition

Continue to Launch

[< Product Detail](#) [Subscribe](#) [Configure](#)

Configure this software

Choose a fulfillment option below to select how you wish to deploy the software, then enter the information required to configure the deployment.

Delivery Method

64-bit (Arm) Amazon Machine Image (AMI)

Software Version

IRIS 2020.1(Arm64) Community Edition (Apr 01, 20

Region

US East (N. Virginia)

Ami Id: ami-0a0afdaff1d20e68d

Product code: 3u1zeaax1e6db624hhac3vuax

Pricing information

This is an estimate of typical software and infrastructure costs based on your configuration. Your actual charges for each statement period may differ from this estimate.


Software Pricing

InterSystems IRIS (Arm64) Community Edition running on a1.xlarge	\$0/hr
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Infrastructure Pricing

EC2:	1 * a1.xlarge
Monthly Estimate:	\$73.00/month

On the Launch page, make sure to select an m6g instance type, such as m6g.large



InterSystems IRIS (Arm64) Community Edition

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Launch this software

Review your configuration and choose how you wish to launch the software.

Configuration Details

Fulfillment Option	64-bit (Arm) Amazon Machine Image (AMI) InterSystems IRIS (Arm64) Community Edition <i>running on a1.xlarge</i>
Software Version	IRIS 2020.1(Arm64) Community Edition
Region	US East (N. Virginia)

Usage Instructions

Choose Action

Launch from Website ▼

Choose this action to launch from this website

EC2 Instance Type

m6g.large ▼

Memory: 8 GiB
CPU: 2 virtual cores
Storage: EBS Only
Network Performance: Up to 10 Gigabit Ethernet

Scroll down, and make sure to select a valid key pair, or follow the link to create a new one if you don't already have one. Then select Launch.



InterSystems IRIS (Arm64) Community Edition

VPC Settings

* indicates a default vpc

vpc-f8fd5d82



[Create a VPC in EC2](#)

Subnet Settings

subnet-e7ac3dbb (us-east-1d)



IPv4 CIDR block: 172.31.32.0/20

[Create a subnet in EC2](#)

(Ensure you are in the selected VPC above)

Security Group Settings

A security group acts as a firewall that controls the traffic allowed to reach one or more instances. You can create a new security group based on seller-recommended settings or choose one of your existing groups. [Learn more](#)

InterSystems IRIS Community Edition-IRIS



[Create New Based On Seller Settings](#)

Key Pair Settings

To ensure that no other person has access to your software, the software installs on an EC2 instance with an EC2 key pair that you created.

leblanc




[Create a key pair in EC2](#)

(Ensure you are in the region you wish to launch your software)



Launch

Now you can navigate to the EC2 console to access your new instance



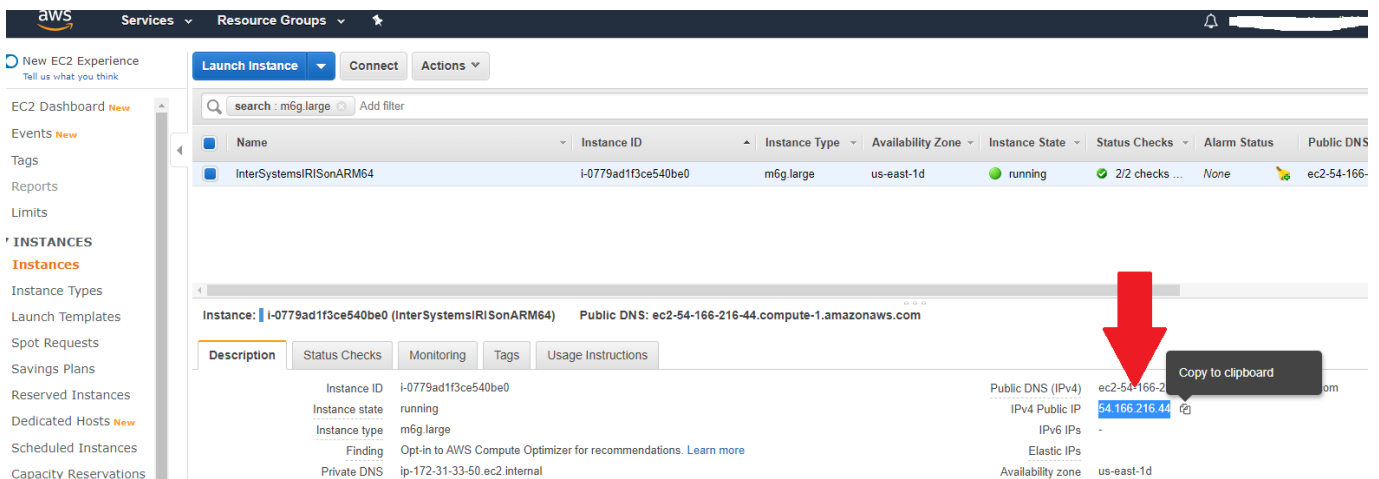
InterSystems IRIS (Arm64) Community Edition

Congratulations! An instance of this software is successfully deployed on EC2!

AMI ID: `ami-0a0afdaff1d20e68d` ([View Launch Configuration Details](#))

You can view this instance on **EC2 Console**. You can also view all instances on [Your Software](#). Software and AWS hourly usage fees apply when the instance is running and will appear on your monthly bill.

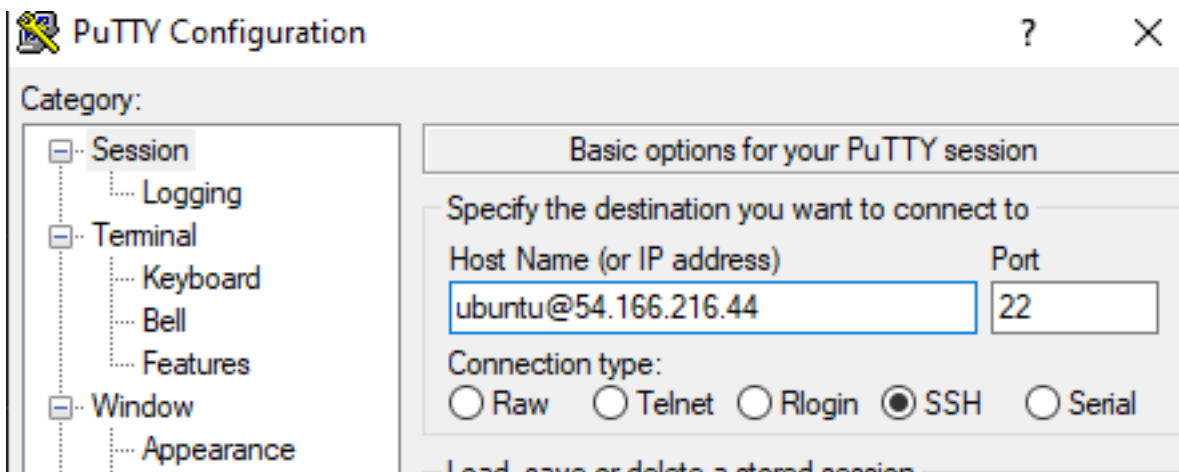
You can name it, access the public IP address below:



Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS
InterSystemsIRISonARM64	i-0779ad1f3ce540be0	m6g.large	us-east-1d	running	2/2 checks ...	None	ec2-54-166-216-44.compute-1.amazonaws.com

Instance ID	Instance state	Instance type	Finding	Private DNS	Public DNS (IPv4)	IPv4 Public IP	IPv6 IPs	Elastic IPs	Availability zone
i-0779ad1f3ce540be0	running	m6g.large	Opt-in to AWS Compute Optimizer for recommendations. Learn more	ip-172-31-33-50.ec2.internal	ec2-54-166-216-44.compute-1.amazonaws.com	54.166.216.44	-	-	us-east-1d

And SSH into the instance using your private key and host name (`ubuntu@<Public-IP-Address>`). Here I ' m using PuTTY, make sure you point to your private key file (.ppk for PuTTY, under SSH > Auth)



PuTTY Configuration

Category: Session, Logging, Terminal, Keyboard, Bell, Features, Window, Appearance

Basic options for your PuTTY session

Specify the destination you want to connect to

Host Name (or IP address): `ubuntu@54.166.216.44` Port: `22`

Connection type: ☐ Raw ☐ Telnet ☐ Rlogin ☒ SSH ☐ Serial

For other SSH clients and additional information, please refer to the Usage Instructions copied here:

Usage Instructions for IRIS 2020.1(Arm64) Community Edition

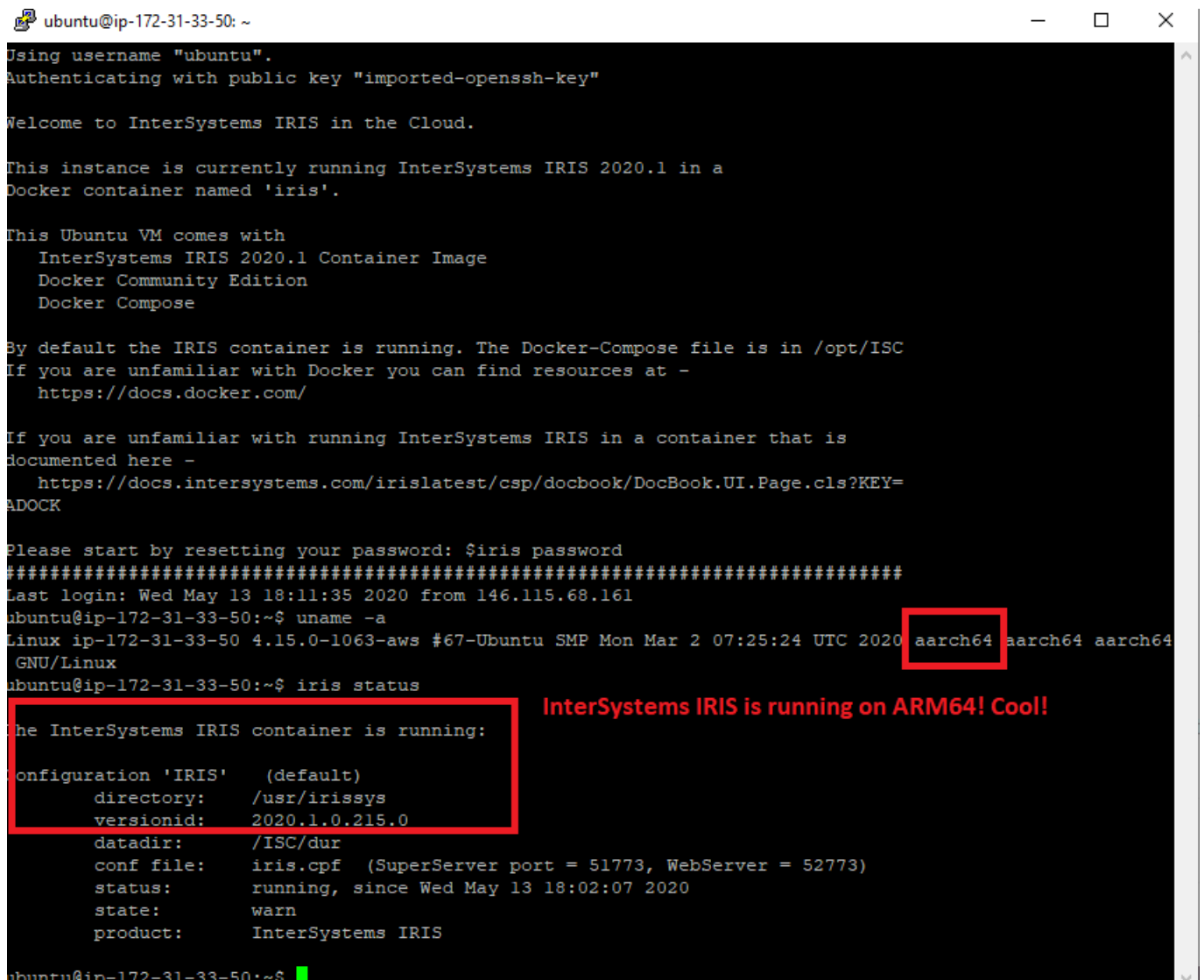
Getting Started: - SSH into the Ubuntu EC2 instance following the instructions here: <https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstancesLinux.html>

The default user is "ubuntu"

- Make note of the connection information provided in the connection message.
- Start by resetting the IRIS password: "\$iris password"
- Connect your IDE - see: <https://www.intersystems.com/developers/>
- Learn more with a Quickstart
- <https://learning.intersystems.com/course/view.php?id=1055&ssoPass=1>
- Enter the IRIS terminal directly with \$docker exec -it iris iris session iris

Additional Resources:

- Getting Started with InterSystems IRIS - <https://gettingstarted.intersystems.com/>



```
ubuntu@ip-172-31-33-50: ~  
Using username "ubuntu".  
Authenticating with public key "imported-openssh-key"  
  
Welcome to InterSystems IRIS in the Cloud.  
  
This instance is currently running InterSystems IRIS 2020.1 in a  
Docker container named 'iris'.  
  
This Ubuntu VM comes with  
  InterSystems IRIS 2020.1 Container Image  
  Docker Community Edition  
  Docker Compose  
  
By default the IRIS container is running. The Docker-Compose file is in /opt/ISC  
If you are unfamiliar with Docker you can find resources at -  
  https://docs.docker.com/  
  
If you are unfamiliar with running InterSystems IRIS in a container that is  
documented here -  
  https://docs.intersystems.com/irislatest/csp/docbook/DocBook.UI.Page.cls?KEY=ADOCK  
  
Please start by resetting your password: $iris password  
#####  
Last login: Wed May 13 18:11:35 2020 from 146.115.68.161  
ubuntu@ip-172-31-33-50:~$ uname -a  
Linux ip-172-31-33-50 4.15.0-1063-aws #67-Ubuntu SMP Mon Mar 2 07:25:24 UTC 2020 aarch64 aarch64 aarch64  
GNU/Linux  
ubuntu@ip-172-31-33-50:~$ iris status  
The InterSystems IRIS container is running:  
Configuration 'IRIS' (default)  
  directory: /usr/irissys  
  versionid: 2020.1.0.215.0  
  datadir: /ISC/dur  
  conf file: iris.cpf (SuperServer port = 51773, WebServer = 52773)  
  status: running, since Wed May 13 18:02:07 2020  
  state: warn  
  product: InterSystems IRIS  
ubuntu@ip-172-31-33-50:~$
```

InterSystems IRIS is running on ARM64! Cool!

InterSystems strives to provide customers with platform freedom of choice. We at InterSystems are very excited to see the performance gains and cost savings that AWS Graviton2 processors can provide to InterSystems IRIS customers. We anticipate that these combined benefits will drive significant adoption of Arm-based platforms among IRIS customers, and we ' re thrilled to support InterSystems IRIS running

on AWS Graviton2-based M6g EC2 instances!

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Source

URL:<https://community.intersystems.com/post/intersystems-iris-now-available-aws-graviton2-based-amazon-ec2-instances>