

The ATLAS Metadata Interface¹ (AMI) is a mature application of more than 15 years of existence. Recently we developed a Jenkins-based system to on-demand deploy and monitor AMI in the cloud.

What is AMI?

AMI is a generic framework to quickly design metadata-oriented applications. It provides facilities for aggregating and searching data with easy-to-use

Deployment system's benefits

- Dedicated web application to centralize: cloud server administration,
 - application deployments.

web interfaces and lightweight clients.

Jenkins has made on-demand deployment possible.

AMI Infrastructure





Monitoring



Cloud node management

in / Admin Dashboard								
min Dashboard	Usages Servers	Images Flavo	rs Rules					
lome	CC-IN2P3	eesser P.						C Refresh
Config	+ New server							
	Tools	name	region	flavor	Image	status	IPv4List	IPv6List
	🔿 (L - 4 4 - 🖏 🛍	ami-V8-tomcat-2	regionOne	ami.large	ami-V8-tomcat-test	ACTIVE	134.158.243.9	
	🔿 🕓 - 4 4 - 🖏 🛍	ami-V8-tomcat-1	regionOne	ami.large	N/A	ACTIVE	134.158.243.8	
	் 🤇 - 🐓 🕈 - 🍄 🛍	ami-V8-task-test	regionOne	ami.large	ami-V8-task-test	ACTIVE	134.158.243.7	
	் 🤇 - 🐓 🛉 - 🗘 🛍	ami-dev-2	regionOne	m1.large	ami-dev-2-16-12-15	ACTIVE	134.158.243.6	
	் 🤇 - 🐓 🕇 - 🗘 🛍	ami-dev-1	regionOne	m1.large	ami-dev-1-16-12-15	ACTIVE	134.158.243.5	
	0 C - 4 4 - O 🖻	ami-val-1	regionOne	ami.large	ami-prod-15-12-15	ACTIVE	134.158.243.4	
	🔿 (L - 4 4 - 🖏 🛍	ami-task-3	regionOne	ami.large	N/A	ACTIVE	134.158.243.3	
	0 (L - * * - 🗘 🖻	ami-prod-024	regionOne	m1.large	N/A	ACTIVE	134.158.243.24	
	0 (L - 5 5 - 6 🛍	ami-prod-023	regionOne	m1.large	N/A	ACTIVE	134.158.243.23	
	0 (L - * * - 🗘 🛍	ami-task-2	regionOne	m1.medium	N/A	ACTIVE	134.158.243.11	
	0 C - 4 4 - O 🛍	ami-task-1	regionOne	m1.medium	N/A	ACTIVE	134.158.243.10	

Jenkins triggered by AMI

 People Build History Project Relationship Check File Fingerprint Manage Jenkins My Views 	S W	Name ↓ AMI ATLAS Task AMI ATLAS Task External new	Last Success 3 days 0 hr - <u>#1163</u> 28 days - <u>#43</u>	Last Failure N/A	Last Duration	ø
Build History Project Relationship Check File Fingerprint Manage Jenkins My Views	s w 	AMI ATLAS Task AMI ATLAS Task External new	Last Success 3 days 0 hr - #1163 28 days - #43	Last Failure	Last Duration	ø
Troject Relationship Check File Fingerprint Manage Jenkins My Views Construction		AMI ATLAS Task	3 days 0 hr - <u>#1163</u> 28 days - <u>#43</u>	N/A	54 sec	\bigotimes
 Check File Fingerprint Manage Jenkins My Views Outlouting 		AMI ATLAS Task External new	28 days - <u>#43</u>	1 ma 10 daya #40		
Manage Jenkins				1 mo 19 days - <u>#40</u>	53 sec	\bigotimes
My Views		AMI ATLAS Task new	1 mo 21 days - <u>#33</u>	N/A	32 sec	\bigotimes
 Over developed 		AMI ATLAS Web	2 days 0 hr - #2660	N/A	1 min 33 sec	5
Credentiais		AMI Code Quality	27 days - #2681	4 mo 15 days - <u>#2607</u>	8 min 55 sec	5
Build Queue (1) -		AMI nEDM	2 mo 25 days - <u>#24</u>	7 mo 29 days - <u>#1</u>	1 min 22 sec	
MI Code Quality		AMI SuperNemo	1 mo 0 days - <u>#16</u>	N/A	46 sec	Ð
Build Executor Status	Icon: <u>S M</u> L			Legend S RSS for all S RSS	S for failures 🔊 RSS for just	latest builds
laster						

InstallPath installScri irewallTCPPorts firewallUDPPo serverName cloudName /opt/AMITaskServer AMITaskServer CC-IN2P3 ami-dev-1

J Fulachier, F Lambert, J Odier (LPSC – Grenoble), on behalf of the ATLAS Collaboration.

Refs.: [1] J Odier and O Aidel and S Albrand and J Fulachier and F Lambert. Evolution of the architecture of the ATLAS Metadata Interface (AMI). J. Phys.: Conf. Ser., vol. 664, num. 4, year 2015. http://stacks.iop.org/1742-6596/664/i=4/a=042040



C Refresh