DEVELOP Virtual Machine Guidebook

Your virtual machine (VM) is a NASA-sponsored Amazon Web Services (AWS) Science Data Managed Cloud Environment (SMCE) Elastic Compute Cloud (EC2) instance. Here's a quick guide on getting it started and using some of its helpful features. Navigate to any section directly by clicking on its name in the Table of Contents.

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Troubleshooting note: If you are experiencing any difficulties with your VM, reach out to James (Jim) Davis via Microsoft Teams or email (<u>james.davis@ssaihq.com</u>).

Section 1. Creating your EC2 and starting your VM (for the first time)

Note: If you have already created the EC2 previously, you can skip this section and proceed to Section 2. Starting your VM.

1. Navigate to the Jenkins server login page: https://jenkins.developprogram.org



Welcome to Jenkins!

Username
Password
Sign in
Keep me signed in

Note: If you are logged into a NASA VPN, the page will not load. Disconnect from the VPN and reload the Jenkins server login page. Most participants will not have VPN access, which mainly applies to Fellows.

2. Sign in with the password provided to you by James (Jim) Davis. The username should look something like **firstname.lastname**, and the password will be pretty long!

Note: Passwords are set to expire every 60 days. Refer to Section III on how to check and change your password.

3. Select **AWSDevelop**. This is where you can view the job build history and start a new job.

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to builds in the queue.	-			
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1 Idle				
2 Idle				
3 Idle				
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4. On the left-hand panel, select **Build with Parameters**. This is where you will first create your EC2 instance.

🏟 Jenkins		Q Search (#+K) (2 James Davis ~ 1 log out
Dashboard > AWSDevelop >			
1 Back to Dashboard	Project AWSDevelop		
🗐 Status	Manage Develop EC2 instances		
Changes Workspace			Edit description Disable Project
Build with Parameters	Permalinks		
Configure	Last build (#39,james.davis), 5 min 12 sec ago Last stable build (#39,james.davis), 5 min 12 sec ago		
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🖉 Rename	Last unstable build (#10,developadmin), 24 days ago Last unsuccessful build (#38,james.davis), 19 min ago Last completed build (#38,james.davis), 5 min 12 sec ago		
G Build History trend ∨			
Q Filter builds			
#39.james.davis Sep 9.2022.6:21 PM AWSDevelop job managing Develop AWS EC2s			
#38.james.davis Sep 9, 2022, 6:07 PM	•		
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© #37.james.davis Sep 9, 2022, 6:01 PM AWSDevelop job managing Develop AWS EC2s			
<u>#36 james davis</u> <u>Sep 9, 2022, 5:42 PM </u>			

5. To create your EC2 Instance for the first time, you must select **Create** from the **Operation** dropdown menu. From that, click the blue **Build** button.

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🏘 Jenkins		Q Search (#+K)	② L James Davis ×
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↑ Back to Dashboard	Project AWSDevelop		
E Status	This build requires parameters:		
Changes	Operation		
Workspace	Status - Determines the current state of the EC2 defined by the user Start - Launches EC2 defined by user		
Build with Parameters	Stop - Stops the EC2 defined by user Reboot - Reboots the EC2 defined by user		
Configure	Create - Generates the VM into existence Term - Terminites(Deletes) the VM - This is permanent!		
Delete Project			
🖉 Rename			
Build History trend ~			
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#39.james.davis Sep 9, 2022, 6:21 PM			
AWSDevelop job managing Develop AWS EC2s			
#38.james.davis Sep. 9, 2022, 6:07 PM			
AWSDevelop job managing Develop AWS EC2s			
#37.james.davis Sep 9. 2022, 6:01 PM			
AWSDevelop job managing Develop AWS EC2s			
) #36.james.davis Sep 9. 2022. 5:42 PM			

6. Once you click the **Build** button, your job will be submitted into the Jenkins queue. Your Create job will always be the first one in the queue. Click on the progress bar of your Create job in the queue to view the status in the **Console Output** screen.

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© #22iames.dw/s	Sep 9, 2022, 6:07 PM			
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7. On the left-hand panel, select Console Output The Console Output screen will show the status of your **Create** job.



Console Output

8. The first time you create your EC2 instance may take a while, so be patient and let it run until the job status indicates "Finished: SUCCESS."

Dashboard > AWSD	Develop > #40,james.davis	
		14:27:07 SSH: EXEC: channel open
		14:27:07 SSH: EXEC: STDOUT/STDERR from command [/usr/bin/python2 SGARA_Create.py SMCE-Develop-"james.davis"]
Timestamps	View as plain text	14:27:07 SSH: EXEC: connected
		14:51:32 Sep 09 2022 06:27 PM: Running SGARA_Create.py SMCE-Develop-james.davis
System clock time		14:51:32 Sep 09 2022 06:27 PM: /home/ec2-user/SGARA_Functions.pyc made=SMCE-Develop-SMCE-Develop-james.davis, instanceId=i-0f81d4b9c225f2aee, ipAddr=117, Type=t3.xlarge
🗹 Use browser timez	tone	14:51:12 14:51:12
O Elapsed time		14:51:12 Sep 09 2022 06:28 PM: instance name = SNCE-Develop-tames.davis, command line = ave ec2 associate-iam-instance-profileinstance-id i-Of81d4b9c225f2aeeiam-
0.11-1-1		A starts de por ava our ani instance nume - ance-evenop-jumestavis, command_inte - une et associate-imm-instance-provide starter - instance-provide starter
ONone		14:51:12 Sep 09 2022 O6:28 PW: instance name = SNCE-Develop-james.davis, command line = aws ec2 allocate-address
		14:51:32 (''AllocationId': ''eipalloc-099099730e524eb9d'', '\n')
		14:51:32 "eipalloc-099099730c524eb9d"
		14:51:32 Sep 09 2022 06:28 PM: instance name = SMCE-Develop-james.davis, command_line = avs ec2 associate-addressinstance-id i-0f81d6b9c225f2aeeallocation-id *eipalloc- 099099730e524eb4d*
		14:51:32 Sep 09 2022 06:28 PM: instance name = SMCE-Develop-james.davis, command line = aws ec2 create-tagsresources "eipalloc-099099730e524eb9d"tags
		Key=Name, Value=SMCE-Develop-james.davis
		14:51:32 Sep 09 2022 06:48 FM: instance name = SNCE-Develop-james.davis, command_line = aws ec2 describe-instance-statusinstance-id i-0f81d4b9c225f2aee
		14:51:32 Sep 09 2022 06:48 FM: instance name = SNCE-Develop-james.davis, command_line = aws cloudwatch put-metric-alarmalarm-name cpu-mon-SHCE-Develop-james.davisalarm-
		description "Idle CPU Monitor Alarm when CPU remains under 5 percent for 2 hour"metric-name CPUUtilizationnamespace AMS/EC2statistic Averageperiod 900threshold
		5comparison-operator LessThanThresholddimensions "Name=InstanceId, Value= i-0f81d4b9c225f2aee"evaluation-periods 8alarm-actions arn:aws:automate:us-east-1:ec2:stop
		unit Percenttreat-missing-data notBreaching
		14:51:32 Sep 09 2022 06:51 PM: instance name = SMCE-Develop-james.davis, command_line = aws ec2 describe-instance-statusinstance-id i-0f81d4b9c225f2aee
		14:51:32
		14:51:32
		14:51:32 If you cannot login to your EC2, wait an additonal 5 minutes to allow the EC2 to finish joining the Active Directory domain.
		14:51:32
		14:51:32 SSH: EXEC: completed after 1,465,302 ms
		14:51:32 SSH: Disconnecting configuration [Automation]
		14:51:32 SSN: Transferred 0 file(s)
		14:51:32 Build step 'Send files or execute commands over SSH' changed build result to SUCCESS
		14:51:13 New run name is #40, james.davis'
		14:51:35 New run description is 'AMSDevelop job managing Develop AMS EC2s' 14:51:35 Finished: SUCCESS
		REST API Jenkins 2.3611
		RESTART JUIKIN 2.301.1

9. You are going next want to go back to the **Project AWSDevelop** screen to get the status of your build. Click on the **AWSDevelop** link on the upper left of the screen.

🧌 Jenkins	Q. Search (#+K) ⑦ 🕹 James Davis 🗸 🔁 log out
Dashboard > AWSDevelop > #40,james.da	ńs
↑ Back to Project	Console Output
Changes	14:27:02 Started by user James Davis 14:27:02 Running as STSTEM
Console Output	14.27:02 Building in vorkspace /var/lib/jankins/vorkspace/AMSDevelop 14.27:02 Building in vorkspace / 440, iames.davis'
View as plain text	14:27:05 Her run description is 'ANEDevelop job managing Develop ANS EC2s' 14:27:05 Ker run description is 'ANEDevelop job managing Develop ANS EC2s' 14:27:07 Stocometring from host [jp-10-4-0-195.developprogram.org]
Edit Build Information	14:27:07 SSH: Connecting with configuration (Automation). 14:27:07 SSH: Connecting session: username (ec2-user), hostname (10.0.0.197), port [22]
Parameters	14:27:07 SBH: Connecting session 14:27:07 SBH: Connected
← Previous Build	14:27:07 SSH: Opening exec channel 14:27:07 SSH: EXEC: channel open
Timestamps View as plain text	14:27:07 SBH: EXEC: STDOUT/STDERR from command [/usr/bin/python2 SGAMA_Create.py SMCE-Develop-"james.davis"]
System clock time	14:51:32 Sep 09 2022 06:27 PM: Running SGARA_Create.py SNCE-Develop-james.davis 14:51:32 Sep 09 2022 06:27 PM: /home/ec2-user/SGARA Functions.pyc made=SNCE-Develop-James.davis, instanceId=i-0f81d4b9c225f2aee, ipAddr=117, Type=t3.xlarge
Use browser timezone	14:51:32
○ Elapsed time	14:51:32 14:51:32 Sep 09 2022 06:28 PM: instance name = SMCB-Develop-james.davis, command_line = avs ec2 associate-iam-instance-profileinstance-id i-0f81d4b9c225f2aeeiam-
ONone	instance-profile Name+"SMCE_SSNAgent" 14:51:32 Sep 09 2022 06:28 PM: instance name = SMCE-Develop-james.davis, command_line = aws ec2 allocate-address
	14:51:32 ('*AllocationId': "eipalloc-099099730e524eb9d'', '\n') 14:51:32 "eipalloc-099099730e524eb9d"
	14:51:32 Sep 09 2022 06:28 PM: instance name = SMCE-Develop-james.davis, command_line = avs ec2 associate-addressinstance-id i-0f81d4b9c225f2aeeallocation-id "eipalloc- 099099730e524eb9d"
	14:51:32 Sep 09 2022 06:28 PM: instance name = SMCE-Develop-james.davis, command_line = avs ec2 create-tagsresources "eipalloc-099099730e524eb9d"tags Key=Name,Value=SMCE-Develop-james.davis
	14:51:32 Sep 09 2022 06:48 PM: instance name = SMCE-Develop-james.davis, command line = avs ec2 describe-instance-statusinstance-id i-0f81d4b9c225f2aee 14:51:32 Sep 09 2022 06:48 PM: instance name = SMCE-Develop-james.davis, command line = avs cloudwatch put-metric-alarmalarm-name cpu-mon-SMCE-Develop-james.davisalarm-
https://jenkins.developprogram.org/job/AWSDevelop/	description Tale CPU Notice Alars when CPU tensions of present for 2 hours - netric-same CPU/Lilationnamespace ANS/RCstatistic Average priod 900threshold 5

10. On the left-hand panel, select **Build with Parameters**.



11. Select **Status** from the **Operation** dropdown menu. From that, click the blue **Build** button.

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🧌 Jenkins			Q. Search (##+K)	Q. Search (#+K)
Dashboard > AWSDevelop >				
↑ Back to Dashboard	Project AWSDevelop			
Status				
Changes	This build requires parameters:			
	Operation			
Workspace	Status - Determines the current state of the EC2 defined by the user Start - Launches EC2 defined by user			
Build with Parameters	Stop - Stops the EC2 defined by user			
<u></u>	Reboot - Reboots the EC2 defined by user Create - Generates the VM into existence			
② Configure	Term - Terminites(Deletes) the VM - This is permanent!			
Delete Project	Status V			
/ Rename				
-				
△ Build History trend ~				
Q. Filter builds				
#40.james.davis Sep 9, 2022, 6:27 PM				
AWSDevelop job managing Develop AWS EC2s				
Sep 9, 2022, 6:21 PM				
AWSDevelop job managing Develop AWS EC2s				
8 #38.james.davis Sep 9. 2022. 6:07 PM				
AWSDevelop job managing Develop AWS EC2s				
🗴 #37.james.davis				
Sep 9, 2022, 6:01 PM				

12. Click on the progress bar of your **Status** job in the queue to view the status in the **Console Output** screen.



13. On the left-hand panel, select **Console Output**. The **Console Output** screen will show the status of your **Status** job.

<u>></u>	Console Output
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14. Allow the **Status** job to complete until the job status indicates "Finished: SUCCESS."

Once complete, locate the header in the Console Output log indicated by Owner/State/ImageId/Ip Addr/InstanceId/Type/Purpose/PublicIp.

Note and write down the **PublicIp**; This will be the IP address you will use to login remotely to your VM.

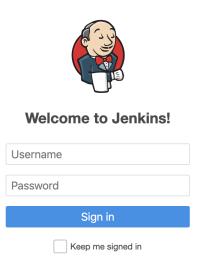
Dashboard > AWSDevelop > #41,james.davis	<pre>14:52:48 New run description is 'ANSDevelop job managing Develop ANS EC2s' 14:52:40 SBN: Connecting run host [ip-10-0-0-196.developprogram.org] 14:52:40 SBN: Connecting session : 14:52:50 SBN: Connecting session 14:52:50 SBN: Connecting session 14:52:50 SBN: Connected 14:52:50 SBN: Connected 14:52:50 SBN: Connected 14:52:50 SBN: EXEC: Control Control 14:52:50 SBN: EXEC: Fortune Control 14:52:50 SBN: EXEC: Fortune Control</pre>
Timestamps View as plain text ® System clock time © Use browser timezone Clapsed time Clapsed time None	113215 Sill EXC: concerted 113215 Sill Exc: concerted 11
	1413135 (Moder State imsgild ip Moder imsgild ip Moder imsgild ip Moder ip Moder <td< td=""></td<>
	119217 Son: EAAL: completes after 5,00 /mS 119217 SON: Transferred file(s) 1192127 SON: Transferred file(s) 1192275 Tone is 'MAI.james.davis' 11922757 Mer vnn Amer is 'MAI.james.davis' 11922757 Her vnn description is 'MSBevelop job managing Develop AMS EC2s' 11922759 Finished: SUCCESS
	REST API Jenkins 2.3

15. At this point, you can log out of Jenkins and proceed to Section 3. Remote into Your VM.

🏘 Jenkins			Q Search (ૠ+K)	⑦ ▲ James Davis ~ 🛨 log.c
Dashboard >				1
부 New Item 윤 People 편 Build History	All +			Add description
Manage Jenkins	S W Name ↓	Last Success	Last Failure	Last Duration
은 My Views	AWSDevelop	26 sec #41, james. davis	46 min #38,james.davis	14 sec 🕞
Build Queue V	Icon: S M L		Icon legend 🔊 Atom feed for all 🔊 Atom feed for fail	lures 🔊 Atom feed for just latest builds
No builds in the queue.				
Build Executor Status				
1 Idle				
2 Idle				
3 Idle				
4 Idle				
				REST API Jenkins 2.36
ps://jenkins.developprogram.org/logout				

Section 2. Starting your VM

1. Navigate to the Jenkins server login page: https://jenkins.developprogram.org



- 2. Sign in with the password provided to you by James (Jim) Davis. The username should look something like **firstname.lastname**, and the password will be pretty long!
- 3. Select **AWSDevelop**. This is where you can view the job build history and start a new job.

🖣 Jenkins			Q Search (第+K)	⑦ L James Davis
shboard >				
+ New Item	AII +			1
 Build History Manage Jenkins 	S W Name ↓	Last Success	Last Failure	Last Duration
온 My Views	AWSReyvelop V	5 min 7 sec #39,james.davis	19 min #38,james.davis	2 min 17 sec
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builds in the queue.				
uild Executor Status				
Idle				
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ldle ldle				
s://jenkins.developprogram.org/job/AWSDevelop/				REST API

4. On the left-hand panel, select **Build with Parameters**. This is where you will start your EC2 instance.

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🏟 Jenkins		Q Search (#+K)	⑦ James Davis × 🚽 log out
Dashboard > AWSDevelop >			
1 Back to Dashboard	Project AWSDevelop		
🗐 Status	Manage Develop EC2 instances		
Changes			Ædit description
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Build with Parameters	← Permalinks		
Onfigure	 Last build (#39,james.davis), 5 min 12 sec ago Last stable build (#39,james.davis), 5 min 12 sec ago 		
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Build History trend ∨			
Q Filter builds			
#39.james.davis Sep. 9. 2022. 6:21 PM AWSDevelop job managing Develop AWS EC2s			
8 #38.james.davis	V		
AWSDevelop job managing Develop AWS EC2s			
#37.james.davis Sep 9, 2022.6:01 PM AWSDevelop job managing Develop AWS EC2s			
#36.james.davis Sep 9. 2022.5:42 PM			

5. To start your EC2 Instance, select **Start** from the **Operation** dropdown menu. From that, click the blue **Build** button.

🧌 Jenkins	
Dashboard > AWSDevelop >	
1 Back to Dashboard	Project AWSDevelop
🗐 Status	This build requires parameters:
Changes	Operation
Workspace	Status - Determines the current state of the EC2 Start - Launches EC2 defined by user
> Build with Parameters	Stop - Stops the EC2 defined by user Reboot - Reboots the EC2 defined by user
Configure	Create - Generates the VM into existence Term - Terminites(Deletes) the VM - This is perm
Delete Project	Start V
🖉 Rename	
Build History trend	
Q Filter builds	
#42.james.davis Sep. 9. 2022, 6:57 PM	
AWSDevelop job managing Develop AWS EC2s	
#41.james.davis Sep 9, 2022. 6:52 PM	
AWSDevelop job managing Develop AWS EC2s	
#40.iames.davis Sep 9, 2022, 6:27 PM	
AWSDevelop job managing Develop AWS EC2s	
#39.james.davis Sep 9, 2022, 6:21 PM	

6. Once you click the Build button, your job will be submitted into the Jenkins queue. Your Start job will always be the first one in the queue. Click on the progress bar of your Start job in the queue to view the status in the Console Output screen.

🏘 Jenkins		Q Search (#+K)	⑦ James Davis Y I log out
Dashboard > AWSDevelop >			
↑ Back to Dashboard	Project AWSDevelop Manage Develop EC2 Instances		// Edit description
Changes Workspace Build with Parameters	Permalinks		Disable Project
ⓒ Configure 前 Delete Project ♂ Rename	Last build (#40), 0.24 sec ago Last stable build (#53),iames.davis), 5 min 25 sec ago Last stable build (#53),iames.davis), 5 min 25 sec ago Last fuiled build (#53),iames.davis), 20 min ago Last unstable build (#048),iames.davis), 20 min ago Last unsuccessful build (#048),james.davis), 20 min ago Last unsuccessful build (#048),james.davis), 20 min ago Last unsuccessful build (#048),james.davis), 80 min 25 sec ago		
Build History trand Q. Filter builds			
B3Biames.davis Sep. 9. 2022. 6:07 PM AVSDevelop job managing Develop AWS EC2s Sep. 9. 2022. 6:01 PM AVSDevelop job managing Develop AWS EC2s AVSDevelop job managing Develop AWS EC2s			

7. On the left-hand panel, select **Console Output**. The **Console Output** screen will show the status of your **Start** job.

8. Starting your EC2 instance may take a while, so be patient and let it run until the job status indicates "Finished: SUCCESS."

Dashboard > AWSDevel	op > #40,james.davis	
		14:27:07 SSH: EXEC: channel open
		14:27:07 SSH: EXEC: STDOUT/STDERR from command [/usr/bin/python2 SGARA_Create.py SMCE-Develop="james.davis"]
Timestamps	View as plain text	14:27:07 SSH: EXEC: connected
		14:51:32 Sep 09 2022 06:27 PN: Running SGARA_Create.py SMCE-Develop-james.davis
System clock time		14:51:32 Sep 09 2022 06:27 PN: /home/ec2-user/SGARA_Functions.pyc made=SMCE-Develop-SMCE-Develop-james.davis, instanceId=i-0f81d4b9c225f2aee, ipAddr=117, Type=t3.xlarge
Use browser timezone		14:51:32
O Elapsed time		14/51/32 14/51/32 Ege 09 2022 06/28 PM: instance name = BNCE-Develop-lames.davis, command line = avs ec2 associate-iam-instance-profileinstance-id i-of91d4b9c225f2aeeiam-
ONone		instance-profile Name-"SNCE_SSNAgent"
		14:51:32 Sep 09 2022 06:28 FM: instance name = SMCE-Develop-james.davis, command_line = aws ec2 allocate-address
		14:51:32 ('"AllocationId": "eipalloc-099099730e524eb9d"', '\n')
		14:51:32 "eipalloc-099099730e524eb9d"
		14:51:32 Sep 09 2022 06:28 PM: instance name = SNCE-Develop-james.davis, command_line = aws ec2 associate-addressinstance-id i-0f81d4b9c225f2aeeallocation-id "eipalloc- 099099730e524eb9d"
		14:51:32 Sep 09 2022 06:28 PM: instance name = SNCE-Develop-james.davis, command_line = aws ec2 create-tagsresources "eipalloc-099099730e524eb9d"tags
		Key=Name,Value=SMCE-Develop-james.davis
		14:51:32 Sep 09 2022 06:48 PN: instance name = SNCE-Develop-james.davis, command_line = aws ec2 describe-instance-statusinstance-id i-0f81d4b9c225f2aee
		14:51:32 Sep 09 2022 06:48 PH: instance name = SHCE-Develop-james.davis, command_line = aws cloudwatch put-metric-alarmalarm-name cpu-mon-SHCE-Develop-james.davisalarm-
		description "Idle CPU Monitor Alarm when CPU remains under 5 percent for 2 hour"metric-name CPUUtilizationnamespace AWS/EC2statistic Averageperiod 900threshold
		5comparison-operator LessThanThresholddimensions "Name=InstanceId,Value= i-0f8ld4b9c225f2aee"evaluation-periods 8alarm-actions arn:aws:automate:us-east-1:ec2:stop
		unit Percenttreat-missing-data notBreaching
		14:51:32 Sep 09 2022 06:51 PN: instance name = SMCE-Develop-james.davis, command_line = aws ec2 describe-instance-statusinstance-id i-0f81d4b9c225f2aee
		14:51:32
		14:51:32
		14:51:32 If you cannot login to your EC2, wait an additonal 5 minutes to allow the EC2 to finish joining the Active Directory domain.
		14:51:32
		14:51:32 SSH: EXEC: completed after 1,465,302 ms
		14:51:32 SSH: Disconnecting configuration [Automation]
		14:51:32 SSH: Transferred 0 file(s)
		14:51:32 Build step 'Send files or execute commands over SSH' changed build result to SUCCESS
		14:51:33 New run name is '#40,james.davis'
		14:51:35 New run description is 'AMSDevelop job managing Develop AMS EC2s'
		14:51:35 Finished: SUCCESS
		REST API Jenkins 2.361.1

9. You are going next want to go back to the **Project AWSDevelop** screen to get the status of your build. Click on the **AWSDevelop** link on the upper left of the screen.

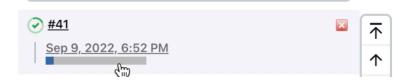
.....

🏟 Jenkins	Q. Search (#+K) ⑦ 👤 James Davis 🗙 🖃 log
Dashboard → AWSDevelop → #40,james.da	avis
↑ Back to Project Status	Console Output
> Changes	14:27:02 Started by user James Davis
Console Output	14:27:02 Running as SYSTEM 14:27:02 Building in workspace /var/lib/jenkins/workspace/AMSDevelop
View as plain text	14:27:03 New run name in '440-james.dwis' 14:27:05 New run description is 'ANSDevelop job managing Develop ANS EC2s' 14:27:09 SSN: Connecting from hoet [j=-10-80]95-developprogram.org]
C Edit Build Information	14:27:07 SSN: Connecting with configuration [Automation] 14:27:07 SSN: Creating session: username [ec2-usec], hostname [10.0.0.197], port [22]
Parameters	14:27:07 SSH: Connecting session
← Previous Build	14:27:07 SSH: Opening exec channel 14:27:07 SSH: EXEC: channel open
Timestamps <u>View as plain text</u>	14:27:07 SSH: EXEC: STDOUT/STDERR from command [/usr/bin/python2 SGARA_Create.py SMCE-Develop-"james.davis"] 14:27:07 SSH: EXEC: connected
 System clock time 	14:51:32 Sep 09 2022 06:27 FM: Running SGARA_Create.py SMCE-Develop-james.davis 14:51:32 Sep 09 2022 06:27 FM: /home/ec2-user/SGARA_Functions.pyc made=SMCE-Develop-SMCE-Develop-james.davis, instanceId=i-0f81d4b9c225f2aee, ipAddr=117, Type=t3.xlarge
Use browser timezone	14/51/32 14/51/32
C Elapsed time	14:51:12 Sep 09 2022 06:28 PM: instance name = SMCE-Develop-james.davis, command_lime = ave ec2 associate-iam-instance-profileinstance-id i-0f81d4b9c225f2aeeiam- instance-orofile Name="SMCE SSMMemet"
○ None	instance-public many onc_scorene 14:51:32 ("AllocationId": "eipalloc-099099730e524eb9d", '\n')
	14:51:32 "ejpalloc-09909730e524eb0d" 14:51:32 Sep 09 2022 06:28 FM: instance name = SMCE-Develop-james.davis, command_line = avs ec2 associate-addressinstance-id i-Of81d4b9c225f2aeeallocation-id "eipalloc 09099730c254eb0d"
	14/51/32 Sep 09 2022 06/28 PM: instance name = SMCE-Develop-james.davis, command_line = ave ec2 create-tagsresources "eipalloc-099099730e524eb9d"tags Keymiame,Value=SMCE-Develop-james.davis
	14:51:12 Sep 09 2022 06:48 PM: instance name = SMCE-Develop-james.davis, command_line = avs ec2 describe-instance-statusinstance-id i-0f81d4b9c225f2aee 14:51:12 Sep 09 2022 06:48 PM: instance name = SMCE-Develop-james.davis, command line = avs cloudwatch put-metric-alarmalarm-name cpu-mon-SMCE-Develop-james.davisalarm-
tos://ienkins.developprogram.org/iob/AWSDevelop/	description 'Idle CPU Monitor Lastmanthe nume - onc-person pinner curris, communitier - and conductionnamespace ANS/EC2statistic Averageperiod 900threshold description 'Idle CPU Monitor Lastmanthe CPU remains under 5 percent for 2 hour'metric-name CPUUHilationnamespace ANS/EC2statistic Averageperiod 900threshold 5

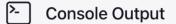
- 10. On the left-hand panel, select **Build with Parameters**.
 - ▷ Build with Parameters
- 11. Select **Status** from the **Operation** dropdown menu. From that, click the blue **Build** button.

🧌 Jenkins		Q Search (#+K)
		-(
Dashboard > AWSDevelop >		
1 Back to Dashboard	Project AWSDevelop	
🗐 Status	This build requires parameters:	
Changes	Operation	
Workspace	Status - Determines the current state of the EC2 defined by the user Start - Launches EC2 defined by user	
D Build with Parameters	Stop - Stops the EC2 defined by user Reboot - Reboots the EC2 defined by user	
Onfigure	Create - Generates the VM into existence Term - Terminites(Deletes) the VM - This is permanent!	
Delete Project		
0 Rename		
△ Build History trend ∨	-	
Q Filter builds		
⊘ #40.james.davis		
Sep 9, 2022, 6:27 PM AWSDevelop job managing Develop AWS EC2s		
#39.james.davis		
Sep 9, 2022, 6:21 PM		
AWSDevelop job managing Develop AWS EC2s		
8 #38.james.davis		
AWSDevelop job managing Develop AWS EC2s		
(8) #37.james.davis		
Sep 9, 2022, 6:01 PM		

12. Click on the progress bar of your **Status** job in the queue to view the status in the **Console Output** screen.



13. On the left-hand panel, select **Console Output**. The **Console Output** screen will show the status of your **Status** job.



14. Allow the **Status** job to complete until the job status indicates "Finished: SUCCESS."

Once complete, locate the header in the Console Output log indicated by Owner/State/ImageId/Ip Addr/InstanceId/Type/Purpose/PublicIp.

Note and write down the **PublicIp**; This will be the IP address you will use to login remotely to your VM.

Timestamp Maxas plainton H4123-05 SUBJ: EXEC: connected • System clock time 14123-05 SUBJ: EXEC: connected 14123-05 SUBJ: EXEC: connected 14123-05 SUBJ: EXEC: connected • Clapacet time 14123-05 SUBJ: EXEC: connected 14123-05 SUBJ: EXEC: connected 1123-25 SUBJ: EXEC: connected • None 14123-05 SUBJ: EXEC: connected 14123-05 SUBJ: EXEC: connected 1123-25 SUBJ: EXEC: connected 1132-25	Dashboard >> AWSDevelop >> #41,james.davis	14:52:48 New run description is 'ANEDevelop job managing Develop ANE EC2a' 14:52:50 SEN: Connecting from host [ip-10-1-0-196.developprogram.org] 14:52:50 SEN: Connecting with configuration [Automation] 14:52:50 SEN: Connecting seasion 14:52:50 SEN: Connecting seasion 14:52:50 SEN: Connecting Seasion 14:52:50 SEN: Connecting Seasion 14:52:50 SEN: EXEC: Fortune Content 14:52:50 SEN: EXEC: Fortune Content for Seasion
• system dock time is 44:32:65 • Useboords timezone 14:32:65	Timestamps <u>View as plain text</u>	
	Use browser timezone	14:2:46 1 4:4:46 1 4:4:4

Jenkins 2.361.1

15. At this point, you can log out of Jenkins and proceed to Section 3. Remote into Your VM.

Jenkins			Q Search (೫+K)	⑦ ▲ James Davis ~ → log out
+ New Item 원 People Build History	Ali +			🖉 Add description
 Manage Jenkins 	S W Name↓	Last Success	Last Failure	Last Duration
은 My Views	AWSDevelop	26 sec #41,james.davis	46 min #38,james.davis	14 sec D
Build Queue V	lcon: S M L		Icon legend 💦 Atom feed for all 🕋 Atom feed for f	ailures 🔊 Atom feed for just latest builds
No builds in the queue.				
Build Executor Status				
1 Idle				
2 Idle				
3 Idle				
4 Idle				
https://jenkins.developprogram.org/logout				REST API Jenkins 2.361.1

Section 3. Remote into Your VM

1. You will need a remote desktop client.

For Windows:

The **Remote Desktop Connection** client is provided as part of the Windows operating systems. Use the Windows Start menu and search for "remote" and the **Remote Desktop Connection** client is usually the first application listed.

For macOS:

macOS users will need to download/install the **Microsoft Remote Desktop** app from the Mac App Store. In the Mac App Store do a search for "Microsoft Remote Desktop."

- 2. Launch remote desktop client. Enter the IP address (**IPAddr**) you wrote down in Step 14 from Section 1. or Section 2.
 - a. On Windows
 - 1) Populate the IP address in the **Computer** field:



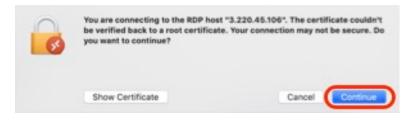
- 2) Click **Connect**.
- 3) Enter your login information. Your username is develop\firstname.lastname, and the password is the same you used to get into the Jenkins server in Section 2., Step 2 You may need to select Use a different account to login using the develop domain.

Windows S	ecurity		×
Enter y	our credentials		
These cre	dentials will be used to	connect to 100.26.80.117.	
develop	\erica.carcelen		
•••••			
Domain:	develop		
More cho	ices		
Я	Carcelen, Erica C (US JPL\carcelen	329B-Affiliate)	
8	Erica Carcelen (affiliat ecarcele@ndc.nasa.go Smart card credential		
	Connect a smart card		
8	Use a different accou	nt	
	ОК	Cancel	1

- 4) Click or.
- b. On macOS:
 - 1) Populate the IP address in the **PC Name** field:

		Microsoft Remote Desistop
6		
	Add PC	
	PC name:	Host name or IP address
54.22	User account:	Ask when required
	1	
	General	Display Devices & Audio Folders
	Friendly name:	
	Group:	Saved PCs
	Gateway:	
		Reconnect If the connection is dropped
		Connect to an admin session
		Swap mouse buttons

- 2) Click the **Add** button, then double-click on the PC you just added.
- You may get a pop-up about the validity of certificate like the example below. Click **Continue**, as this is normal for remote desktop connections to EC2 instances.



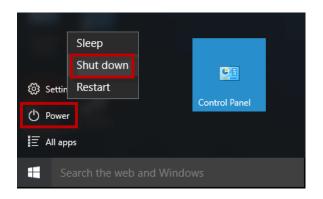
3. You should be greeted with your VM desktop!



Section 4. Shutting down your VM

You <u>MUST</u> shut down your VM and terminate your EC2 every single time you are done using it! Failure to do so will waste energy and money on an unused virtual machine.

1. If you are remotely logged into your VM, bring up the **Start** menu by pressing the Win key on your keyboard or by clicking the Win button on the lower left corner of the Windows desktop, then click the **Power** button, and then click **Shut down**.



Wait until your VM completely shuts down and returns to your remote desktop client.

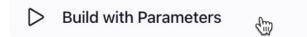
2. If you are not currently logged in to Jenkins, you will need to log back into the Jenkins server: <u>https://jenkins.developprogram.org/</u>



3. Click on **AWSDevelop** to navigate back to the DEVELOP AWS project page.

A Jenkins			Q Search (#+K)	⑦ L James Davis Y I log or
+ New Item 22. People	All +			🖉 Add description
Manage Jenkins	S W Name↓	Last Success	Last Failure	Last Duration
원 My Views	AWSRevelop >	5 min 7 sec #39.james.davis	19 min #38,james.davis	2 min 17 sec 🕞
Build Queue	lcon: S M L		Icon legend 🔉 Atom feed for all 🔉 Atom feed fo	or failures 🔊 Atom feed for just latest builds
Build Executor Status V				
1 Idle				
2 Idle				
3 Idle				
4 Kore				
				REST API Jenkins 2.36

4. Select **Build with Parameters** on the left-hand side panel.



5. In the **Operation** dropdown menu, select the option **Stop** and click the blue **Build** button.

Dabbard > MSDevelop > Configure Configure <th>A</th> <th></th> <th></th> <th></th>	A			
♦ Back to Dashboard ● Status ● Status ♦ Olarges ● Vorkspace ● Notid with Parameters ● Notid with Parameters ● Rotifier ● Origine ● Origine ● Configure ● Configure ● Delete Project ● Parame ● Notid Mistory ● Notestatus ● Notestatus ● Notestatus ● Notestatus ● Notestatus ● Delete Project ● Notestatus ● Notes	🙀 Jenkins			Q Search (
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Image: service of the control of the con				
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AWSDevelop job managing Develop AWS EC2s				
Ø #38.iamea.davis				
		:C2s		

6. You can view the progress of your **Stop** job in the bottom left-hand panel under **Build History**. Your job will always be the first one listed.

🏟 Jenkins		Q Search (#+K)	🔋 💄 James Davis 🖌 🛨 log out
Dashboard > AWSDevelop >			
 ↑ Back to Dashboard B Status ⟨♪ Changes Workspace ▷ Build with Parameters 	Project AWSDevelop Manage Develop EC2 Instances Permalinks		Edit description Disable Project
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Q Film x Q Film x Description x x Descrin x x <td></td> <td></td> <td></td>			
G #28James.davis Seo 9. 2022. 6:02 PM AVSDevelop job managing Develop AWS EC2s G #23James.davis Seo 9. 2022. 0:01 PM AVSDevelop job managing Develop AWS EC2s			

7. Click on the progress bar of your **Stop** job in the queue to view the status in the **Console** Output screen.

	⊼
Sep 9, 2022, 6:52 PM	\uparrow

8. On the left-hand panel, select Console Output. The Console Output screen will show the status of your **Stop** job.

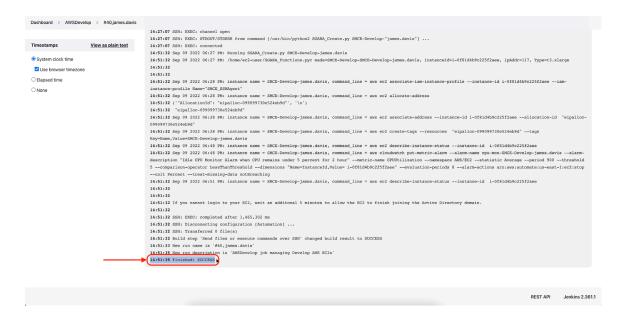


Console Output

9. The Console Output screen will show the status of your **Stop** job.

Stopping your EC2 instance may take a while, so be patient and let it run until the job status indicates "Finished: SUCCESS."

......



10. Once you see the *"Finished: SUCCESS"* in the **Console Output** log, you know that your EC2 has stopped, and you are good to log off for the night. At this point, you can log out of Jenkins.

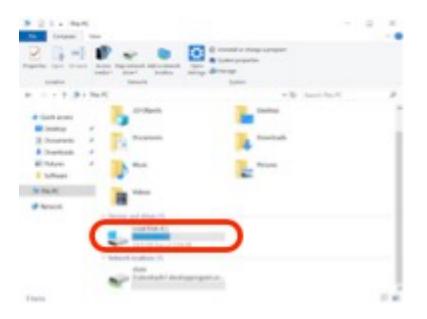
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Section 5. Storing Files

At DEVELOP, there are several resources available to store your files, which are detailed below. Discuss these options with your Fellow, who may have preferences for the node or suggestions for what would work best for your team!

Local Storage (C:)

The **C: drive** on your virtual machine is your local drive, meaning any files stored here are only accessible on your virtual machine. If you start running low on space in your **C: drive**, work with your Fellow to request an increase in space from IT. Files stored on your **C: drive** will be lost at the end of the term, so make sure you have sent files to your Fellow or uploaded them to the shared drive. These should only be files that cannot be re-downloaded or files that are being sent to your partners. Use a **README** to document your folder's content and structure!



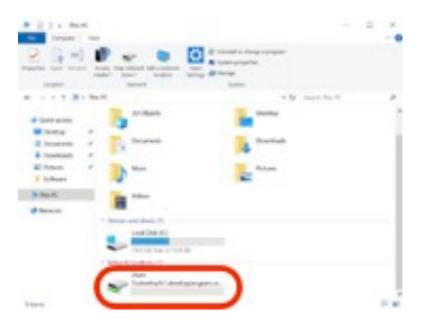
Shared Drive (D:)

The program's shared drive is accessible through the Virtual Machine and is already mapped to the **D: drive**, no additional steps are needed to connect to it. Because this folder is accessible by everyone in the program, you can use it to transfer files among your team members or back-up your work. Please keep your files organized in a team folder with the following naming format:

YearTerm_Node_ProjectShortTitle

Remember that this is a shared space for the program, so be mindful of the amount of space you are using.

If you have several large files that need to be shared with your team members, contact IT about options to set-up a server for easy transfer!



AWS WorkDocs

AWS WorkDocs is a cloud-based file-sharing platform that can be accessed both inside and outside the Virtual Machine. It is a great option for teams that are not requesting Virtual Machines and need space to share files outside of Office 365.

Please access AWS WorkDocs through the browser only, <u>do not download</u> and install the app on your virtual machine.

1. Navigate to the AWS WorkDocs page:

https://developprogram.awsapps.com/workdocs/loginv2/index.html#/emailSelect?sitename =developprogram

2. Login with the username (firstname.lastname) and password that Jim Davis sent you. The username should be formatted as username@develop.environments.com. It should be the same username and password used for Jenkins and GitLab.

	WorkDocs	Piease log in with your developprogram credentiats
	Let's get started	erica.carcelen@develop.environments.cor
		Remember username
	erica.carcelen@develop.environment	
		Sign In
	Learn more about Amazon WorkDocs	
	Download clients	By continuing, you agree to the AWS customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.
100		Forgot Password?

3. The home page defaults to MyDocs, which are the folders and files you have uploaded to AWS WorkDocs. If this is your first-time logging in, there should be no files since you have not added any files yet! Navigate to Collaborate to see folders shared among other users in DEVELOP's AWS WorkDocs and Activity to see recent actions taken in your files.

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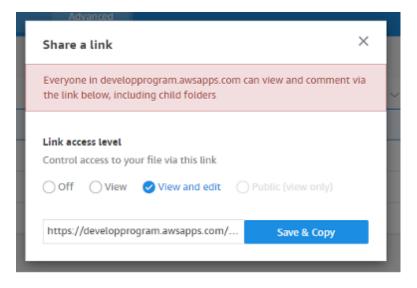
4. To create a new folder, use the **Create** button at the top right. Once you're ready to upload files to your folder, navigate to the folder and use the blue **Upload** button to upload folders or individual files.

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5. If you'd like to share the folder with your teammates via AWS WorkDocs, select the file or folder you'd like to share. Click the **Share** button that becomes available on the top right, near the blue **Upload** button.

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6. You can create a link by selecting the Share a link option and selecting the appropriate option.



You can also add people to the folder by selecting Invite people and entering their emails (typically **firstname.lastname@ssaihq.com**). Any folders shared with you will show up in the **Collaborate** tab.

scott.cunningham@ssaihq.com	Contributor 🗸
scott.cunningham@ssaihq.com Please enter a valid username or email address.	
britnay.beaudry@ssaihq.com	Contributor 🗸
hayley.pippin@ssaihq.com	Contributor 🗸

Note: Only those with access to DEVELOP's AWS WorkDocs can be added or view these folders. If you need to share a folder or file externally, discuss any limitations and options with your Fellow and IT.

7. When you select a file or folder, the **Actions** drop-down menu also becomes available. Use this drop-down to download, edit, or delete the item.

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Section 6. SMCE Passwords

For security reasons, your SMCE account password expires every 90 days. *Please keep track of when your password expires, and remember to change it before its expiration date!*

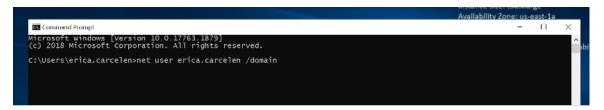
- 1. If you did not request a VM for the term and needed to change your password before it expires to access GitLab or AWS WorkDocs, send a message to Jim Davis to request that your password be reset.
- 2. To check your password expiration date before your password expires, follow the steps in the subsection **Check your password expiration**.
- 3. To change your password before your password expiration date, follow the steps in the subsection **Changing your password**.

Check your password expiration

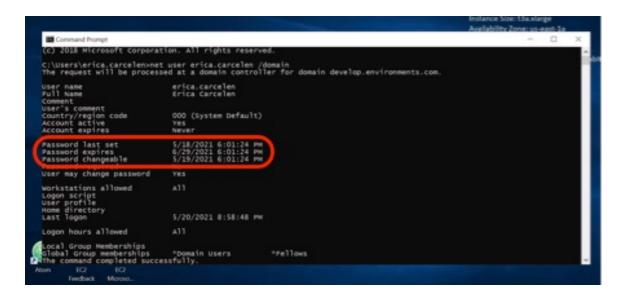
When you remotely log into your VM, a dialog box should appear within 10 days of an expiration with a warning that your password will expire soon. You can, however, check the expiration date anytime.

1. To check the expiration date of your password, open the **Command Prompt** application on your VM by pressing the Windows key, and on the search field, type "command prompt" to locate the **Command Prompt** application.

In the **Command Prompt** application, type **net user <your_login> /domain** replacing **<your_login>** with your AWS username (typically **firstname.lastname**) and hit **Enter**. Make sure there is a space between your **<your_login>** and **/domain**.



2. A report will then show up with information about your account. Refer to the "Password expires" field for the exact day your current password is set to expire.



Changing your password

If you attempt to remotely log into your VM <u>after your password has expired</u>, you will not be able to log in and will need to message Jim Davis <u>james.a.davis@ssaihq.com</u>, to reset your password.

To update your password, you must connect to the **Change Password Host** (IP address 52.203.105.43) from your VM between NOON and 6 PM Eastern (9 AM and 3 PM Pacific). The **Change Password Host** will only be available at those times and can only be used by one person at a time, so be patient during peak hours.

- 1. To change your password before its expiration date, open the **Command Prompt** application on your VM by pressing the Windows key, and on the search field, type "command prompt" to locate the **Command Prompt** application.
- 2. In the **Command Prompt** application, type **osk** and hit **Enter**.
- 3. A virtual keyboard will appear. On your local keyboard, press the **Ctrl-Alt** keys (these should turn blue on the virtual keyboard) and then click on the **Del** key on the virtual keyboard.

Make sure you click on the **Del** key on the virtual keyboard and <u>do not</u> press **Del** on your local keyboard. If you press **Del** on your local keyboard instead of clicking **Del** on the virtual keyboard, you may change the password on your local machine, not the VM!

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- 4. Select **Change a password** and fill out the sections accordingly. Passwords must meet the following requirements:
 - at least 15 characters
 - 1 upper case
 - 1 lower case
 - 1 special character,
 - 1 numeric character

Lock Sign out	2
Change a password	Change a password
Task Manager	DEVELOP\erica.carcelen
Cancel	DId password New password Confirm password

The same character cannot be repeated more than 3 times in a row.

5. Once you click on the **Confirm password** button, your password is set for the next 90 days!