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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#GetSystemLog:instanceId=i-0efe6d88439de763c

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Get system logInfo

When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.

System log

Review system log for instance i-0efe6d88439de763c as of Sun Dec 25 2022 01:03:05 GMT+0200 (Eastern European Standard Time)

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```
[ 50.139078] cloud-init[1220]: No VM guests are running outdated hypervisor (qemu) binaries on this host.
[ 51.724593] cloud-init[1220]: Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemd-sysv-install.
[ 51.733144] cloud-init[1220]: Executing: /lib/systemd/systemd-sysv-install enable apache2
[ 52.647216] cloud-init[1220]: apache2.service - The Apache HTTP Server
[ 52.656755] cloud-init[1220]:    Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
ci-info: no authorized SSH keys fingerprints found for user ubuntu.
[ 52.673086] cloud-init[1220]:    Active: active (running) since Sat 2022-12-24 22:59:41 UTC; 6s ago
[ 52.681291] cloud-init[1220]:    Docs: https://httpd.apache.org/docs/2.4/
[ 52.687454] cloud-init[1220]:    Main PID: 2068 (apache2)
[ 52.692062] cloud-init[1220]:    Tasks: 55 (limit: 1143)
[ 52.695564] cloud-init[1220]:    Memory: 4.9M
[ 52.701516] cloud-init[1220]:    CPU: 29ms
[ 52.709265] cloud-init[1220]:    CGroup: /system.slice/apache2.service
[ 52.720201] cloud-init[1220]:    apache2@2068 /usr/sbin/apache2 -k start
[ 52.729605] cloud-init[1220]:    apache2@2070 /usr/sbin/apache2 -k start
[ 52.744587] cloud-init[1220]:    apache2@2071 /usr/sbin/apache2 -k start
[ 52.753439] cloud-init[1220]: Dec 24 22:59:40 ip-10-0-1-171 systemd[1]: Starting The Apache HTTP Server...
<14>Dec 24 22:59:47 cloud-init: #####
<14>Dec 24 22:59:47 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Dec 24 22:59:47 cloud-init: 1024 SHA256:+EC6Bak3+39HuHye14Cd61STvvaF1h0e63l+4e0Ts_croot@ip-10-0-1-171 (DSA)
```

For boot or networking issues, use the EC2 serial console for troubleshooting. Choose the **Connect** button to start a session.

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Instances (1/1) Info

Find instance by attribute or tag (case-sensitive)

ConnectInstance stateActionsLaunch instances

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
nat-ec2	i-0efe6d88439de763c	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	-	-

Instance: i-0efe6d88439de763c (nat-ec2)

Instance summaryInfo

Instance IDi-0efe6d88439de763c (nat-ec2)

IPv6 address-

Hostname typeIP name: ip-10-0-1-171.ec2.internal

Answer private resource DNS nameIPv4 (A)

Auto-assigned IP address

Public IPv4 address-

Instance stateRunning

Private IP DNS name (IPv4 only)ip-10-0-1-171.ec2.internal

Instance typet2.micro

VPC ID

Private IPv4 addresses10.0.1.171

Public IPv4 DNS-

Elastic IP addresses-

AWS Compute Optimizer finding

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VPC dashboard

EC2 Global View

Filter by VPC:

Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP option sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Security

Network ACLs

Security groups

Network Analysis

Reachability Analyzer

Subnets (1/8)

Filter subnets

	Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IP
<input type="checkbox"/>	my-public-subnet	subnet-088403d57008ee64e	Available	vpc-025301299484017ab la...	10.0.0.0/24	-	250
<input type="checkbox"/>	-	subnet-06ecd781fd0f8404c	Available	vpc-025a6f33b0fc1af02	172.31.32.0/20	-	4091
<input checked="" type="checkbox"/>	my-private-subnet	subnet-08ec263c75729604e	Available	vpc-025301299484017ab la...	10.0.1.0/24	-	250
<input type="checkbox"/>	-	subnet-0437d5ac45d823232	Available	vpc-025a6f33b0fc1af02	172.31.80.0/20	-	4091
<input type="checkbox"/>	-	subnet-0946667c3e306847f	Available	vpc-025a6f33b0fc1af02	172.31.0.0/20	-	4091
<input type="checkbox"/>	-	subnet-054b405a87410e72c	Available	vpc-025a6f33b0fc1af02	172.31.48.0/20	-	4091
<input type="checkbox"/>	-	subnet-09c1d3a1e7c88b63a	Available	vpc-025a6f33b0fc1af02	172.31.16.0/20	-	4091
<input type="checkbox"/>	-	subnet-007c5801311e008a3	Available	vpc-025a6f33b0fc1af02	172.31.64.0/20	-	4091

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Route table: rtb-09065197dfc52f40d / private-sb

Edit route table association

Routes (2)

Filter routes

Destination	Target
10.0.0.0/16	local
0.0.0.0/0	nat-03cf661d89da3742b

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When you experience issues with your EC2 instance, reviewing system logs can help you pinpoint the cause.

System log

Review system log for instance i-05f091bb598b1a261 as of Sun Dec 25 2022 01:56:27 GMT+0200 (Eastern European Standard Time)

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[24.052293] cloud-init[3240]: --> Finished Dependency Resolution

[24.085899] cloud-init[3240]: Dependencies Resolved

[24.092015] cloud-init[3240]: =====

[24.100418] cloud-init[3240]: Package Arch Version Repository Size

[24.108062] cloud-init[3240]: =====

[24.115005] cloud-init[3240]: Installing:

[24.118199] cloud-init[3240]: httpd x86_64 2.4.54-1.amzn2 amzn2-core 1.4 M

[24.125073] cloud-init[3240]: Installing for dependencies:

[24.129043] cloud-init[3240]: apr x86_64 1.7.0-9.amzn2 amzn2-core 122 k

[24.136146] cloud-init[3240]: apr-util x86_64 1.6.1-5.amzn2.0.2 amzn2-core 99 k

[24.142890] cloud-init[3240]: apr-util-bdb x86_64 1.6.1-5.amzn2.0.2 amzn2-core 19 k

[24.150001] cloud-init[3240]: generic-logos-httpd noarch 18.0.0-4.amzn2 amzn2-core 19 k

[24.157070] cloud-init[3240]: httpd-filesystem noarch 2.4.54-1.amzn2 amzn2-core 24 k

[24.164138] cloud-init[3240]: httpd-tools x86_64 2.4.54-1.amzn2 amzn2-core 88 k

[24.171130] cloud-init[3240]: mailcap noarch 2.1.41-2.amzn2 amzn2-core 31 k

[24.177884] cloud-init[3240]: mod_http2 x86_64 1.15.19-1.amzn2.0.1 amzn2-core 149 k

[24.185177] cloud-init[3240]: Transaction Summary

[24.188830] cloud-init[3240]: =====

[24.196230] cloud-init[3240]: Install 1 Package (+8 Dependent packages)

[24.200886] cloud-init[3240]: Total download size: 1.9 M

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