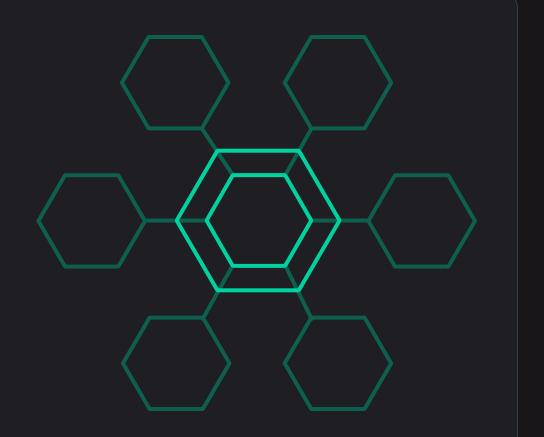


Yandex Cloud hostprovider

The Yandex Cloud hostprovider is one of the available hostproviders for Arenadata Cluster Manager (ADCM). This hostprovider allows you to create and manage virtual machines (VM) in the Yandex Cloud.

Version CURRENT Language: EN



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Create hosts

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Planning guide



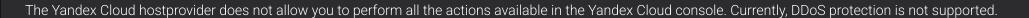
은 Daria Barysheva

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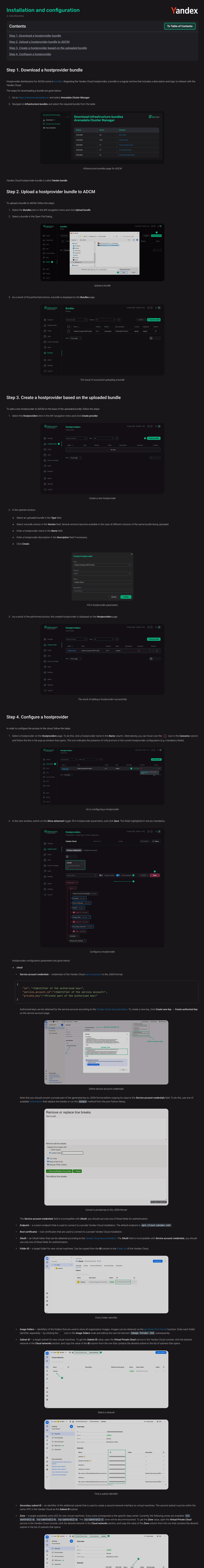
Before adding the Yandex Cloud hostprovider, ensure the following requirements are met:

- The Folder exists in the Yandex Cloud.
- The subnet is created in the Yandex Cloud.
- ADCM can establish the connection to the specified subnet in the Yandex Cloud.
- The user that creates the virtual machine has all necessary rights.

NOTE

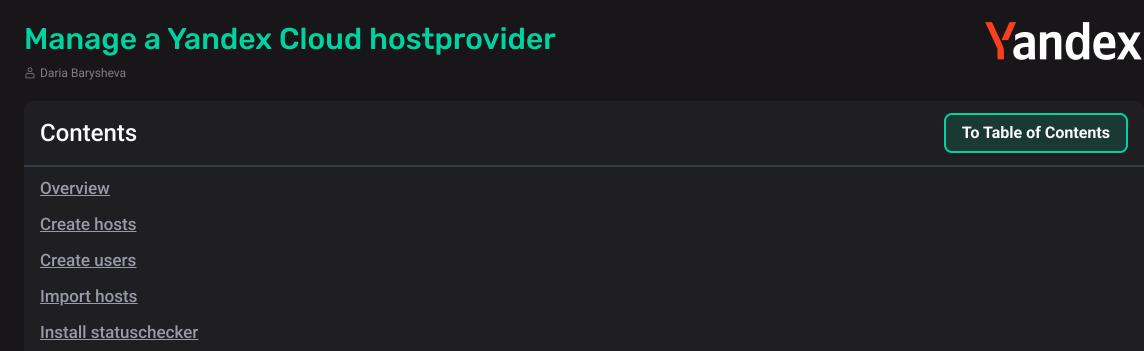






default-develop × ☆ default-develop × Active ru-central1-c — Φ default-develop × Active ru-central1-b -3 Getting a static public IP Deleting a static public IP Active ru-central1-b no-internet × Cloud networks and subnets Active ru-central1-a qh0nqbud5mp). Should not be deleted by user. Cloud resource addresses ru-central1-a $default-develop \times$ qh0nqbud5mp). Should not be deleted by user. Find an availability zone ■ metadata: Ssh keys — a set of public keys that will be used to create users during the Create hosts, Create users, and Create host → Init actions. Enter each key separately — by clicking the + 1 icon in the **Ssh keys** node and editing the new list element **Ssh keys** [N] subsequently. Each public key should start with **ssh-rsa** and end with username@hostname default host settings: Active operations limit timeout — a timeout that is activated when the quota of simultaneously performed operations is exceeded (resulting in errors returned by the Yandex Cloud gPRC). If empty, the timeout is not activated. If 0, the waiting time is unlimited. Any positive integer in the field equals the waiting time, during which the operation should move from the queue to the execution stage. Measured in seconds. Labels — labels that will be used for all created VMs by default. The labels that are specified for VMs (during the Create hosts and Create host → Init actions) have a higher priority compared to the labels specified at the hostprovider level. Enter each label separately — by clicking Add property in the Labels node and editing the new list element Labels [N] subsequently. In the dialog that opens, enter a label key in Enter field name and a label value in Enter field value. Security Group IDs — security group identifiers that will be used for all created VMs by default. The security groups that are specified for VMs (during the Create hosts and Create host → Init actions) have a higher priority compared to the groups specified at the hostprovider level. Enter each group separately — by clicking the + 1 icon in the Security Group IDs node and editing the new list element Security Group IDs [N] subsequently. 3. Return to the *Hostproviders* page. As a result, the (i) icon stops being displayed in the *Concerns* column. The actions available for the configured hostprovider can be opened by clicking the icon in the actions column. 12 Mar 2024 15:56:53 UTC 🗘 🖓 🜣 🔌 **EARENADATA Hostproviders** Yandex Cloud Yandex Compute VM Provider created Show 10 per page >

The result of configuring a hostprovider successfully



Overview

After you create and configure a Yandex Cloud hostprovider, you can manage it on the Hostproviders page of the ADCM web interface. To see available hostprovider actions, click the icon in the **Actions** column. **EARENADATA** 13 Mar 2024 06:43:21 UTC 🐧 🗇 Hostproviders

Yandex Compute VM Provider

Show 10 per page >

Hostproviders

the Jobs page. For some actions, you should first fill in additional options in a separate window.

Jobs Jobs

Cancel Standard window to confirm all actions When an action starts, ADCM displays its execution process and result on the **Jobs** page. From this page, you can navigate to a page with details on an individual job (by clicking a job name) to see inner steps of that job execution and analyze errors, if any. **EARENADATA** 13 Mar 2024 08:02:47 UTC 🐧 🖓 🔅 🔊 Jobs Create users

13/03/2024 08:01:11

TASK [create_user : Enable addm sudo group in sudoers] *************************

The job page

: ok=11 changed=5 unreachable=0

: ok=11 changed=5 unreachable=0 failed=0 skipped=2

failed=0

skipped=2

rescued=0

rescued=0

ignored=0

ianored=0

Default value

600

centos-7

Intel Cascade Lake

100

HDD

50

false

false

false

private

13 Mar 2024 07:54:02 UTC 🐧 🖓 🔅 🔌

Create host

X

13/03/2024 08:01:21

Run an action: Create users

Ansible [stdout] Ansible [stderr]

skipping: [bds-yandex-2]

changed: [bds-yandex-2]

changed: [bds-yandex-1] changed: [bds-yandex-2]

changed: [bds-yandex-1] changed: [bds-yandex-2]

skipping: [bds-yandex-2]

changed: [bds-yandex-1]

ok: [bds-yandex-2]

changed: [bds-yandex-1] changed: [bds-vandex-2]

bds-yandex-1

bds-yandex-2

■ Do not use the *Create hosts* action for products that require FQDNs. Use the Create host → Init action on the *Hosts* page instead.

After you select the Create hosts action, a dialog box opens where you can set the following parameters (the fields highlighted in red are mandatory).

suffixes, use the Create host → Init action on the **Hosts** page

A list of additional Linux groups. All users are added to this list at the moment the VMs are being initialized. For example, in the Alt Linux image the ansible user should be added to the wheel group. Each group

Enter each group separately — by clicking the + 1 icon in the **Additional** users groups node and editing the new list element Additional users

A timeout for cloud-init to finish the running tasks (in seconds)

The initialization script that is executed at VMs deployment. A shebang (#!) is not needed. Pay attention that this option is experimental: single or

A family of operating systems based on which VMs are created. The newest

Starting with Yandex Cloud hostprovider 2.13, you can fill in the parameter

An ID of the boot disk snapshot. Incompatible with the *Image id* parameter

An ID of the boot disk image. Can be obtained via two commands:

yc compute image list --folder-id standard-images

A processor type. For more information on supported platforms, refer to the

Intel Ice Lake (starting with Yandex Cloud hostprovider 2.15)

A guaranteed processor performance level that is allocated to VMs. See

SSD-NONREPLICATED (starting with Yandex Cloud hostprovider 2.13)

■ name — a name of the disk. If not defined, the following template is used: <hostname>-data-disk-<N> , where <hostname> is the

■ autodelete — a flag that indicates whether to remove a disk after

more details in the Yandex Cloud documentation

A size of the boot disk that is created for VMs (in GB)

Parameters of additional disks in the JSON format:

VM name and <N> is the disk number.

description — a disk description.

■ **type** — a disk type (see **Disk type** above).

All parameters except **name** are required. Example:

"name": "Data-disk1", "autodelete": true, "description": "disk1",

"autodelete": false, "description": "disk2",

Whether or not to assign public IP addresses to VMs

A flag that indicates whether to use the second network interface controller

(NIC) for VM. You need to define the **Secondary subnet ID** value in the

Security group identifiers that will be used for all created VMs by default. The security groups that are specified during the *Create hosts* action have a higher priority compared to the groups specified at the hostprovider level.

Enter each group separately — by clicking the + 1 icon in the **Security**

Group IDs node and editing the new list element Security Group IDs

Labels that will be used for all created VMs by default. The labels that are specified during the Create hosts action have a higher priority compared to

Enter each label separately — by clicking **Add property** in the **Labels** node and editing the new list element Labels [N] subsequently. In the dialog that opens, enter a label key in Enter field name and a label value in Enter

Whether or not to mark VMs as **preemptible**. Preemptible machines work

for no longer than 24 hours and can be interrupted by the cloud provider at any time. The rental cost in this case is much cheaper. The parameter may

Determines whether the connection between ADCM and the Yandex Cloud should use an external or internal route. If ADCM is deployed in another cloud and VPN is not configured, set the parameter value to public

Show advanced (1)

The "Create hosts" action form

New hosts on the Hosts page

During the virtual machine creation, the adcm user is automatically added to the VM (and subsequently displayed in the Username and Login host settings in

■ To connect to the new VM for your personal needs, use logins of the users whose public keys are listed in the **Ssh keys** field of the Yandex Cloud hostprovider

The Create users action adds new users to all hosts that were previously created via the Yandex Cloud hostprovider. Names and public SSH keys of created users are extracted from

■ Before running the action, create and configure all hosts first — using the Create hosts action on the *Hostproviders* page or the Create host → Init action on the

The Import hosts action imports to ADCM information on the hosts that are previously created in the Yandex Cloud. Configuration parameters of the imported virtual machines should

The "Import hosts" action form

Imported hosts on the Hosts page

As a result of the *Import hosts* action, configuration parameters of all hosts are imported from Yandex Cloud to ADCM. You can view them by selecting a specific host on the *Hosts*

If not all requested VM can be imported to ADCM, only the VM that have passed all checks are added to the ADCM, and the Import hosts action fails. The reasons why Yandex virtual

The Install statuschecker action installs the statuschecker on all hosts that were previously created via the Yandex Cloud hostprovider. This is a special daemon that periodically

Before running the action, create and configure all hosts first — using the Create hosts action on the *Hostproviders* page or the Create host → Init action on the

After you select the action, the standard confirmation dialog opens. Click **Run** to confirm the action. No additional parameters are required.

Starting with Yandex Cloud hostprovider 2.12, a result of uploading the additional disk configuration (Additional disks (JSON)) depends on the autodelete option value that is set for a VM in the cloud. If autodelete = true, the JSON will contain all information that is needed to re-create a VM after the Remove

13 Mar 2024 09:17:09 UTC 🐧 🖓 🔯 🔊

As a successful result, new hosts and their actions become available on the Hosts page. To finish the configuration process, run the Install statuschecker action for each host.

running

running

An IP address type that is used by ADCM to communicate with VMs.

"type": "ssd", "size": 10

"type": "hdd", "size": 100

Yandex Cloud hostprovider settings first

the labels specified at the hostprovider level.

be defined only before the VM initialization

■ private — a private address.

public — a public address.

},

}

[N] subsequently

field value

Possible values:

Run an action: Create hosts

Configuration ~

Count: 2

instance >

As a successful result, new hosts and their actions become available on the Hosts page.

EARENADATA

settings. To add new users, run the Create users action.

FQDN: bds-yandex

Additional users groups <not set> >

To run the Create hosts action, click Run in the action form. Then, confirm the action in the standard confirmation dialog.

Hosts

Show 10 per page >

ADCM). This user is used only by ADCM to connect to the VM in the cloud (e.g. during the RPM package installation).

the SSH keys field of the Yandex Cloud hostprovider configuration options. Users will be able to access hosts using their private SSH keys.

After you select the action, the standard confirmation dialog opens. Click Run to confirm the action. No additional parameters are required.

■ Public SSH keys of all created users should be specified in the **SSH keys** field of the Yandex Cloud hostprovider settings.

After you select the Import hosts action, a dialog box opens where you can set the following parameters (the fields highlighted in red are mandatory):

■ FQDNs — a fully qualified domain name of the virtual machine in the Yandex Cloud. To enter several names, use a comma-separated list.

■ **Ssh username** — a user name that is used for connecting to the virtual machine via SSH. The specified user should exist on the host.

be compatible with Yandex Cloud hostprovider settings. All machines should have the Running status in the cloud.

■ Ssh user private key — a private SSH key that is used for connecting to the virtual machine via SSH.

Run an action: Import hosts

FQDNs: <not set>

EARENADATA

action. If autodelete = false , the JSON will contain only disk_id

Settings of the Yandex Cloud hostprovider and the Yandex Cloud VM are incompatible.

It is impossible to connect to the VM from the host where ADCM is deployed.

Other problems when obtaining data about virtual machine from Yandex Cloud.

checks the status of services and components added to the cluster hosts via ADCM.

machines can be invalid for import are given below:

■ The VM status is different from **Running**

Install statuschecker

IMPORTANT

Hosts page.

Ssh username: <not set>

🕕 Ssh user private key: <not set>

To run the Import hosts action, click Run in the action form. Then, confirm the action in the standard confirmation dialog.

Hosts

Show 10 per page >

removing a VM.

■ **size** — a disk size in GB.

A storage class of VMs. Possible values:

double quotes may break the installation process

image from the specified family is used.

value manually

For public images:

For private images:

Possible values:

A number of vCPU

RAM (in GB)

SSD

HDD

■ Intel Broadwell

■ Intel Cascade Lake

yc compute image list

Incompatible with the **Snapshot id** parameter

The Create hosts action allows you to create a group of virtual machines in the Yandex Cloud and add their data to ADCM. For each host, the connection is checked and the

A prefix for names of virtual machines. Every name is formed according to the <FQDN>-<VM number>.<Domain zone> template. VM numbers start with 1. If you need only one virtual machine and do not need numeric

Download

■ To add and configure each host separately, run the Create host → Init action on the **Hosts** page.

statuschecker is installed. Thus, you do not need to run the Install statuschecker action for each created host.

A number of virtual machines

should exist in the image.

groups [N] subsequently

Description

All available hostprovider actions are listed below.

Host configuration parameters

Additional users groups

Cloud-init timeout

Init script

Image family

Snapshot id

Image id

Platform

vCPU

Perfomance level (%)

Memory (GB)

Disk type

Disk size, GB

Assign public ip

Assign secondary NIC

Security Group IDs

Labels

Preemptible

address type

NOTE

Create users

IMPORTANT

Hosts page.

Import hosts

page.

NOTE

ADCM control connection

Additional disks (JSON)

Parameter

Count

FQDN

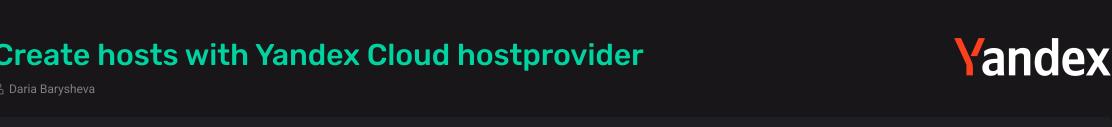
Create hosts

NOTE

ok: [bds-yandex-1]

Yandex Cloud hostprovider actions

When you choose an action, ADCM displays a dialog window to confirm your choice. In this dialog window, you can select the Verbose checkbox to see additional execution details on



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13 Mar 2024 15:48:59 UTC 🗘 🖓 🔅 🔌

No data

Create

13 Mar 2024 15:50:50 UTC 🛕 🖓 🔅 🔊

20 Nov 2024 07:40:17 UTC (? ?)

Actions

🗓 Delete

Default value

22

root

true

600

centos-7

Intel Cascade Lake

100

2

HDD

50

false

false

false

private

13 Mar 2024 16:19:39 UTC 🐧 🖓 🔅 🔊

-o StrictHostKeyChecking=no -o

UserKnownHostsFile=/dev/null

Add a host via ADCM

Describe a new host

■ When creating hosts for the ADH and ADPS products, you should define an FQDN in the **Name** field (e.g. test.ru-central1.internal). The maximum

ADB starting with the 6.23.3.44 version supports both FQDN and short host names. For the previous ADB versions, it is not recommended to use FQDNs (as

For the ADS and ADS Control products, FQDNs are required if the ADPS product is used. The maximum FQDN length for ADS hosts is 48 symbols.

created

Go to configuring a host

Expand content
 Show advanced

Select a hostprovider in the *Hostprovider* field. Notice that hostproviders are displayed with the names that you have assigned to them.

Create host

Yandex Cloud

2

🖰 Daria Barysheva

Before adding hosts, ensure that the Yandex Cloud hostprovider is installed and configured via ADCM.

Hosts

Show 10 per page >

This guide explains how to add a single host. To add several hosts simultaneously, run the hostprovider action Create hosts.

IMPORTANT

2. In the opened dialog:

Click Create.

CAUTION

Enter a host name in the *Name* field.

FQDN length is 38 symbols for ADH and 49 symbols for ADPS.

For the ADQM product, FQDNs are required if Kerberos authentication is used.

FQDNs cause errors during the **Expand** action and a workaround is needed).

In other cases, both short host names and FQDNs are allowed in the Name field.

EARENADATA

EARENADATA

3. Return to the *Hosts* page and switch to configuring the added host. To do this, click the host name in the *Name* column.

Show 10 per page >

4. In the opened window, select the **Primary Configuration** tab, switch on the **Show advanced** toggle, fill in parameters, and click **Save**.

Host-Components Primary configuration

Additional users groups <not set> >

Platform: Intel Cascade Lake

Perfomance level (%): 100

Boot disk name: <not set>

Additional disks (JSON): <not set>

Snapshot id: <not set>

Image id: <not set>

vCPU: 2

Memory (GB): 2

Disk type: HDD

Disk size, GB: 50

Assign public ip: false

Assign secondary NIC: false

Assign internal ip: <not set>

Labels <not set> >

Preemptible: false

The assignment of parameters is listed in the table below.

Description

action

SSH

during the *Init* action

in the *Username* field

should exist in the image.

groups [N] subsequently

automatically during the *Init* action

in automatically during the *Init* action

Host configuration parameters

Connection address

Secondary NIC IP

Parameter

address

Port

Username

SSH args

Login

Public SSH key

Cloud-init timeout

Init script

Image family

Snapshot id

Image id

Platform

vCPU

Perfomance level (%)

Memory (GB)

Boot disk name

Disk type

Disk size, GB

Assign public ip

Assign secondary NIC

Security Group IDs

Labels

Preemptible

ADCM control

NOTE

connection address type

Additional disks (JSON)

Ansible become

Additional users groups

Security Group IDs <not set> >

ADCM control connection address type: private

Read-only. An IP address of the created VM. It is filled in automatically

Read-only. An IP address of the second network interface controller (NIC) that is used by the created VM. It is filled in automatically during the Init

Read-only. A port number that is used for connecting to the created VM via

Read-only. A user name that is used for connecting ADCM to the created

Read-only. A flag that grants the superuser privileges to the user specified

UserKnownHostsFile=/dev/null parameters disable strict host key checking for SSH. Otherwise, when this checking is enabled, the SSH client connects only to the known hosts that are stored in the known host list

A list of additional Linux groups. All users are added to this list at the moment the VMs are being initialized. For example, in the Alt Linux image the ansible user should be added to the wheel group. Each group

Enter each group separately — by clicking the +1 icon in the **Additional** users groups node and editing the new list element Additional users

Read-only. A name of the user that is created on the new VM. It is filled in

Read-only. A public SSH key of the new user with the *Login* name. It is filled

A timeout for **cloud-init** to finish the running tasks (in seconds)

The initialization script that is executed at VMs deployment. A shebang (#!) is not needed. Pay attention that this option is experimental: single

A family of operating systems based on which VMs are created. The

Starting with Yandex Cloud hostprovider 2.13, you can fill in the parameter

An ID of the boot disk snapshot. Incompatible with the *Image id* parameter

An ID of the boot disk image. Can be obtained via two commands:

yc compute image list --folder-id standard-images

A processor type. For more information on supported platforms, refer to

Intel Ice Lake (starting with Yandex Cloud hostprovider 2.15)

A guaranteed processor performance level that is allocated to VMs. See

A name of the boot disk that is created for the new VM. If not defined, the <hostname>-boot-disk template is used as a disk name, where

SSD-NONREPLICATED (starting with Yandex Cloud hostprovider

■ name — a name of the disk. If not defined, the following template is used: <hostname>-data-disk-<N>, where <hostname> is the

■ autodelete — a flag that indicates whether to remove a disk after

or double quotes may break the installation process

newest image from the specified family is used.

value manually

For public images:

For private images:

yc compute image list

the Yandex Cloud documentation.

Intel Cascade Lake

<hostname> is the VM name

A storage class of VMs. Possible values:

A size of the boot disk that is created for VMs (in GB)

Parameters of additional disks in the JSON format:

VM name and <N> is the disk number.

description — a disk description.

size — a disk size in GB.

type — a disk type (see **Disk type** above).

All parameters except **name** are required. Example:

"name": "Data-disk1", "autodelete": true, "description": "disk1",

"autodelete": false, "description": "disk2",

Whether or not to assign public IP addresses to VMs

in the Yandex Cloud hostprovider settings first

the labels specified at the hostprovider level.

be defined only before the VM initialization

■ **private** — a private address.

public — a public address.

Hosts

Show 10 per page >

ADCM). This user is used only by ADCM to connect to the VM in the cloud (e.g. during the RPM package installation).

statuschecker is installed on the new host automatically. Thus, you do not need to run the Install statuschecker action for the created host.

running

A flag that indicates whether to use the second network interface

controller (NIC) for VM. You need to define the **Secondary subnet ID** value

Security group identifiers that will be used for all created VMs by default. The security groups that are specified during the *Create hosts* action have a higher priority compared to the groups specified at the hostprovider level.

Enter each group separately — by clicking the +1 icon in the **Security** Group IDs node and editing the new list element Security Group IDs

Labels that will be used for all created VMs by default. The labels that are

Enter each label separately — by clicking *Add property* in the *Labels* node and editing the new list element Labels [N] subsequently. In the dialog that opens, enter a label key in *Enter field name* and a label value in *Enter*

Whether or not to mark VMs as **preemptible**. Preemptible machines work

An IP address type that is used by ADCM to communicate with VMs.

for no longer than 24 hours and can be interrupted by the cloud provider at any time. The rental cost in this case is much cheaper. The parameter may

Determines whether the connection between ADCM and the Yandex Cloud should use an external or internal route. If ADCM is deployed in another cloud and VPN is not configured, set the parameter value to public.

As a result of the completed steps, a virtual machine is created in the Yandex Cloud, and new actions become available for the corresponding host on the Hosts page in ADCM. The

Actions available on the Hosts page

During the virtual machine creation, the adcm user is automatically added to the VM (and subsequently displayed in the Username and Login host settings in

■ To connect to the new VM for your personal needs, use logins of the users whose public keys are listed in the **Ssh keys** field of the Yandex Cloud hostprovider

specified during the *Create hosts* action have a higher priority compared to

"type": "ssd", "size": 10

"type": "hdd", "size": 100

Intel Broadwell

Possible values:

A number of vCPU

RAM (in GB)

SSD

HDD

2.13)

removing a VM.

},

}

[N] subsequently

field value

Possible values:

EARENADATA

settings. To add new users, run the Create users action.

]

Incompatible with the **Snapshot id** parameter

more details in the Yandex Cloud documentation

VM via SSH. It is filled in automatically during the *Init* action

Read-only. SSH arguments for Ansible. The StrictHostKeyChecking=no and

Configure a host

instance 🗸

Hosts

bds-host •

Configuration V

Hosts

The steps for adding a single host are listed below:

1. Select the *Hosts* item in the left navigation menu and click *Create host*.

EARENADATA

Hosts 1

Access manager

Create hosts with Yandex Cloud hostprovider

Manage hosts with Yandex Cloud hostprovider

🖰 Daria Barysheva

of the ADCM web interface. To see available host actions, click the 🕡 icon in the **Actions** column.

Hosts

EARENADATA

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<u>Change ip type</u> Create user

Install utils <u>Remove</u>

Remove and Init Install rng-tools

Send cmd Power ON

Install statuschecker Power OFF

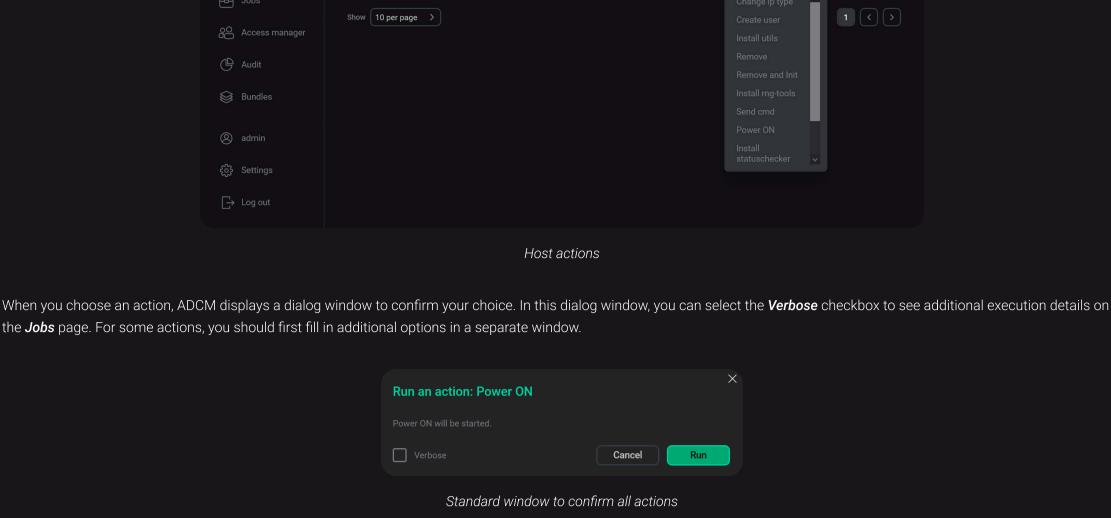
Overview

<u>Update</u>

Create host

After you create and configure new hosts based on the Yandex Cloud hostprovider (by running the Create hosts or Create host → Init action), you can manage them on the Hosts page

13 Mar 2024 18:11:28 UTC 🛕 🖓 🔅 🔊



name) to see inner steps of that job execution and analyze errors, if any. **EARENADATA** 13 Mar 2024 18:17:07 UTC (? ?) Jobs

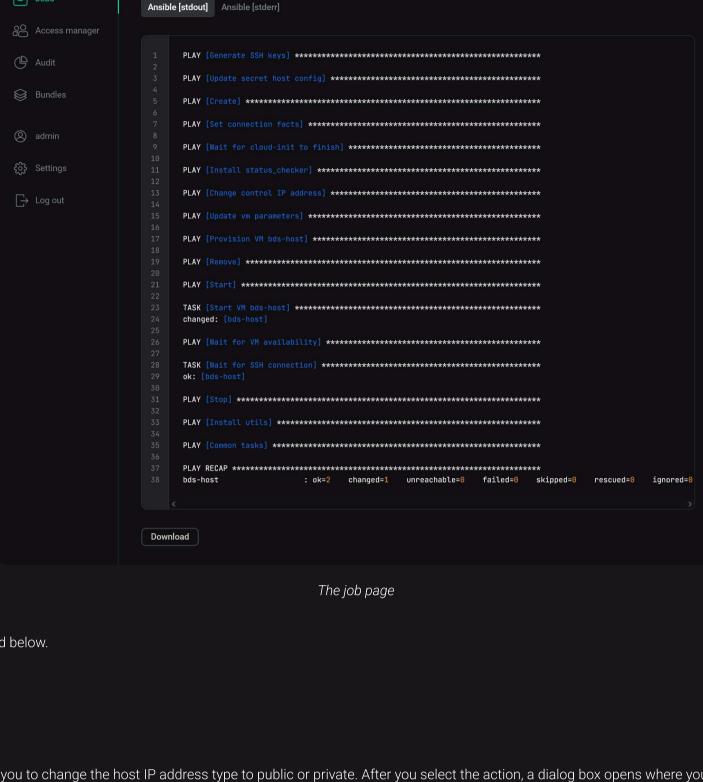
13/03/2024 18:15:08

13/03/2024 18:16:35

Power ON

Jobs Jobs

When an action starts, ADCM displays its execution process and result on the Jobs page. From this page, you can navigate to a page with details on an individual job (by clicking a job



Create user

■ **Login** — a name of the created user. ■ SSH Public Key — a public SSH key of the created user. It should start with ssh-rsa and end with username@hostname.

To run the *Change ip type* action, click *Run* in the action form. Then, confirm the action in the standard confirmation dialog.

Run an action: Create user

Login: <not set>

SSH Public Key: <not set>

Additional groups <not set> >

Passwordless sudo: false

Install utils

Remove

Remove and Init

Install rng-tools

generator (RNG).

Send cmd

To run the *Create user* action, click *Run* in the action form. Then, confirm the action in the standard confirmation dialog.

```
Run an action: Install utils
                                                                      Expand content
                                                                                                Show advanced
                                                                                                                                            Run
                                        Utils <not set> >
                                                                              The "Install utils" action form
Enter each package separately — by clicking the +1 icon in the Utils node and editing the new list element Utils [N] subsequently.
```

After you select the action, the standard confirmation dialog opens. Click Run to confirm the action. No additional parameters are required.

Enter each package separately

shebang (#!) is not needed. Run an action: Send cmd

To run the **Send cmd** action, click **Run** in the action form. Then, confirm the action in the standard confirmation dialog.

Command: <not set>

The **Power ON** action starts the virtual machine in the Yandex Cloud. After you select the action, the standard confirmation dialog opens. Click **Run** to confirm the action. No additional parameters are required. After the **Power ON** action is completed, the host status changes to running in ADCM and to Running in the Yandex Cloud.

Power OFF

Update

Install statuschecker

Power ON

The **Power OFF** action stops the virtual machine in the Yandex Cloud. After you select the action, the standard confirmation dialog opens. Click **Run** to confirm the action. No additional parameters are required. After the **Power OFF** action is completed, the host status changes to **stopped** in ADCM and to **Stopped** in the Yandex Cloud.

element Security Group IDs [N] subsequently.

Run an action: Update

■ Labels — new labels for VM. Enter each label separately — by clicking Add property in the Labels node and editing the new list element Labels [N] subsequently. In the dialog that opens, enter a label key in Enter field name and a label value in Enter field value. ■ Security Group IDs — new identifiers of security groups for VM. Enter each group separately — by clicking the [+1] icon in the Security Group IDs node and editing the new list

Configuration ~ Labels <not set> ∨ + Add property Security Group IDs <not set> >

To run the *Update* action, click *Run* in the action form. Then, confirm the action in the standard confirmation dialog.

All available host actions are listed below. Change ip type The Change ip type action allows you to change the host IP address type to public or private. After you select the action, a dialog box opens where you can select one of the following types in the *IP-address type* field: ■ private public **IMPORTANT** The action only changes the IP address that is used to manage a host by ADCM. The virtual machine IP address is not changed. X Run an action: Create user Show advanced Login: <not set> SSH Public Key: <not set> Additional groups <not set> > Passwordless sudo: false The "Change ip type" action form

The Create user action creates a user on the host. After you select the action, a dialog box opens where you can fill in the following parameters (the fields highlighted in red are mandatory): ■ Additional groups — a list of Linux groups to which a user will be added (optionally). Enter each group separately — by clicking the [+1] icon in the Additional groups node and editing the new list element | Additional groups [N] | subsequently. ■ Passwordless sudo — a flag that indicates whether the user can escalate their privileges to sudo without password. If set, the user will also be added to the adcm_sudo group.

Show advanced

X

X

Cancel

Run

Cancel

NOTE If you need to add users to all hosts that are based on the Yandex Cloud hostprovider, run the Create users action.

The Install utils action installs packages (utilities) on the host (e.g. nano, wget, etc.). After you select the action, a dialog box opens where you can specify the packages you need.

The "Create user" action form

Utils V

To run the *Install utils* action, click *Run* in the action form. Then, confirm the action in the standard confirmation dialog.

Run an action: Install utils

Configuration V

The **Remove** action removes the virtual machine from the Yandex Cloud and ADCM.

The Remove and Init action recreates the virtual machine in the Yandex Cloud (removes and creates). After you select the action, the standard confirmation dialog opens. Click **Run** to confirm the action. No additional parameters are required. The Install rng-tools action installs the rngd utility from the rng-tools package. This utility fills the Linux system entropy pool. The contents of this pool are used by the random number After you select the action, the standard confirmation dialog opens. Click Run to confirm the action. No additional parameters are required. The Send cmd action allows you to send a bash command to the host. After you select the action, a dialog box opens where you can enter a command text in the Command field. A

The "Send cmd" action form

The Install statuschecker action installs the statuschecker on the host. This is a special daemon that periodically checks the status of services and components added to the cluster hosts via ADCM. After you select the action, the standard confirmation dialog opens. Click **Run** to confirm the action. No additional parameters are required.

launch of the *Update* action) is completely overwritten. After you select the action, a dialog box opens where you can fill in the following parameters:

The **Update** action sets new labels and Security Group IDs for the virtual machine in the Yandex Cloud. In this case, the previous data (saved during the VM initialization or the last

The "Update" action form

4.0 3.12.1 3.11 3.10 3.9 3.8 3.7 3.6 3.5 3.4 3.3 3.2 3.1 2.16 2.15 2.14 2.13 2.12 2.11 4.0 Door 1811 2025 Micc/Internal Thermiumum ADCM variable mass is 2.9.0 3.12.1 Date: 15.05.2025 Bug forces	To Table of Contents
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3.12.1 Date: 16.05.2025	
Date: 16.05.2025	
Fixed the error message that occurred when attempting to create a virtual machine with a disk name that matched one of the existing of the exi	disk names
Date: 27.12.2024 Improvements Updated status_checker: removed timers that generated restart logs	
Bug fixes	
Fixed the error with running init-script on Alt Linux 3.11	
Date: 09.10.2024 Misc/Internal Updated dependencies	
3.10	
Bug fixes Fixed the error that occurred when trying to run the <i>Install statuschecker</i> action from the hostprovider menu	
Misc/Internal Updated the path for storing SSH keys on the ADCM node	
3.9 Date: 13.08.2024	
Improvements Improved security via a new approach to interacting with remote nodes	
Bug fixes Fixed the error with redhat_subscription	
Fixed the issue with the availability of CentOS 7 repositories Misc/Internal	
The concept of working with SSH keys has been changed	
3.8 Date: 01.04.2024 New features	
Added the ability to explicitly specify a name for the boot disk (in the Boot disk name field), as well as to define names of additional disk within the Additional disks (JSON) field) for better visibility in Grafana dashboards. If you specify the Boot disk name field or the <name> attribute in the Additional disks (JSON) field, they are used as disk names. Other generated automatically according to the following templates: For the boot disk: <hostname>-boot-disk where <hostname> is the VM name</hostname></hostname></name>	
 For the boot disk: <hostname>-boot-disk , where <hostname> is the VM name.</hostname></hostname> For additional disks: <hostname>-data-disk-<n> , where <hostname> is the VM name and <n> is the disk number.</n></hostname></n></hostname> 	
3.7 Date: 31.01.2024 New features	
Added the ability to create a secondary network interface for virtual machines in the Yandex Cloud 3.6	
3.6 Date: 21.12.2023 Bug fixes	
Fixed Ansible inventory for the case when users are created on the hosts that are linked to clusters. Now, the <i>Create user</i> action starts of (instead of all cluster hosts)	only on the selected host
3.5 Date: 28.11.2023 New features	
Added the ability to stop execution of Ansible playbooks and actions 3.4	
Date: 02.06.2023 New features	
Multiline, loops, variables are supported for initialization scripts (init_script) Added the post_script section for host actions, which allows executing Ansible scripts on the virtual machine after its initialization	
3.3 Date: 13.04.2023 New features	
Added support for Astra Linux	
3.2 Date: 21.03.2023 New features	
Added the Remove and init action at the host level, which allows you to recreate virtual machines in the cloud	
3.1 Date: 04.10.2022 Improvements	
The <i>Name</i> field (that was used to create a group of virtual machines and to import hosts) is changed to <i>FQDN</i> . Host configurations in Al instead of names Misc/Internal	DCM now contain FQDNs
Support for RHEL distribution activation is temporarily disabled Upgrade is supported only from version 3.x	
2.16 Date: 14.02.2022	
Misc/Internal Requirements to the minimal ADCM version are changed. In ADCM 2022020106, the Python version has been changed to 3.10, which is previous bundles of the Yandex Cloud hostprovider	s not supported by the
2.15 Date: 14.02.2022	
New features Added the <i>redhat_subscription</i> section to the hostprovider settings. This section is designed to store registration parameters for virtual	machines with RHEL
Added the Register RHEL VM action at the host level. This action registers RedHat for a virtual machine that uses RHEL — with the abilit settings from the hostprovider configuration Added the Register RHEL VM action at the hostprovider level. This action registers RedHat for a virtual machine that uses RHEL — based from the hostprovider configuration	
The Intel Ice Lake platform is supported Added the advanced parameter <i>Image folder</i> to the hostprovider settings. This parameter provides a single storage for all images with to via the <code>get-latest-from-family</code> function	the ability to obtain images
Bug fixes Fixed the Ansible module error for Yandex Cloud	
Fixed the Ansible module error for Yandex Cloud Fixed the minimal ADCM version for a bundle Fixed an error with granting the sudo privileges, which occurred during creation of users in Alt Linux. Now, if the Passwordless sudo flag automatically added to the wheel group	ag is set, users are
Fixed the Python discovery error for the Power ON action, which occurred if the Python interpreter did not exist at the same path as in the	ne ADCM container
2.14 Date: 26.05.2021 Improvements	
Increased stability of the <i>rng-tools</i> installation action Bug fixes	
Fixed a bug that allowed saving negative values in the Active operations limit timeout and Cloud-init timeout fields Misc/Internal	
Requirements to the minimal ADCM version are changed. In ADCM 2021052612, the Python version has been changed to 3.9, which is previous bundles of the Yandex Cloud hostprovider	not supported by the
2.13 Date: 12.05.2021 New features	
The <i>Image family</i> parameter type is changed from option to variant. Now, you can edit the parameter value manually. Also, this parameter value manually.	
Added the Assign internal ip field where you can enter an IPv4 address for a virtual machine. By default, internal IP addresses are created added support for a new disk type SSD_NONREPLICATED Bug fixes	ed automatically
Fixed required=false for the deprecated field 'template'(DN: Image). Caused problems while working through API	
2.12 Date: 26.02.2021 New features	
Added the default_host_settings section to the hostprovider settings for saving default host settings Added the advanced field Active operations limit timeout to the default_host_settings section. This is a timeout that is activated when the performed operations is exceeded (resulting in errors returned by the Yandex Cloud gPRC)	ne quota of simultaneously
performed operations is exceeded (resulting in errors returned by the Yandex Cloud gPRC) Added the optional field <i>Labels</i> to the <i>default_host_settings</i> section. You can use this field to specify labels that will be used for all creat labels that are specified for VMs have a higher priority compared to the labels specified at the hostprovider level Added the <i>Service account credentials</i> field to the hostprovider settings for authentication based on static access keys. This field is opti	
the OAuth field Added the advanced field Endpoint to the hostprovider settings. This is a custom endpoint that will be used to connect to a private Yand default endpoint is api.cloud.yandex.net	dex Cloud installation. The
Added the advanced field Root certificates to the hostprovider settings. In this field, you can define root certificates that will be used to conclude installation Added the advanced field Cloud-init timeout to the host settings. This is a timeout for cloud-init to finish the running tasks	connect to a private Yandex
Added the ability to create additional disks based on snapshot_id / image_id or attach existing disks via disk_id Improvements	
Made the <i>OAuth</i> parameter optional. Currently, the <i>Service account credentials</i> field is the main field for authentication Now it is possible to use the data about additional disks when performing the <i>Init</i> action for virtual machines previously added via the <i>Ir</i> subsequently removed (if the autodelete VM parameter is set to true)	mport hosts action and
	r settngs)
Bug fixes Fixed the problem of writing public keys with the adcm username to the host configuration (from the <i>Ssh keys</i> field in the hostprovider	
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Fixed the problem of writing public keys with the adcm username to the host configuration (from the <i>Ssh keys</i> field in the hostprovider Removed the Advanced attribute for the <i>Login</i> , <i>SSH public Key</i> fields in the <i>Create user</i> action Fixed the problem of upgrading a bundle from version 2.10. The error occurred if some virtual machines were created from snapshots 2.11	
Fixed the problem of writing public keys with the adcm username to the host configuration (from the <i>Ssh keys</i> field in the hostprovider Removed the Advanced attribute for the <i>Login, SSH public Key</i> fields in the <i>Create user</i> action Fixed the problem of upgrading a bundle from version 2.10. The error occurred if some virtual machines were created from snapshots 2.11 Date: 18.09.2020 New features Added the <i>Update</i> action that updates labels of virtuals machines by overwriting the previous labels	creation, the newest image
Fixed the problem of writing public keys with the addingusername to the host configuration (from the Ssh keys field in the hostprovider Removed the Advanced attribute for the Login, SSH public Key fields in the Create user action Fixed the problem of upgrading a bundle from version 2.10. The error occurred if some virtual machines were created from snapshots 2.11 Date: 18.09.2020 New features Added the Update action that updates labels of virtuals machines by overwriting the previous labels Added the advanced field Snapshot ID, which allows you to create virtual machines from snapshots The 'image_family' (DN: Image family) field has become the main source for a boot disk image. During the virtual machine of from the specified family is currently used (instead of a fixed image) Improvements Replaced the deprecated field 'template' (DN: Image) with 'image_family' (DN: Image family)	creation, the newest image
Fixed the problem of writing public keys with the adom username to the host configuration (from the Ssh keys field in the hostprovider Removed the Advanced attribute for the Login, SSH public Key fields in the Create user action Fixed the problem of upgrading a bundle from version 2.10. The error occurred if some virtual machines were created from snapshots 2.11 Date: 18.09:2020 New features Added the Update action that updates labels of virtuals machines by overwriting the previous labels Added the advanced field Snapshot ID, which allows you to create virtual machines from snapshots The 'image_family' (DN: Image_family) field has become the main source for a boot disk image. During the virtual machine of from the specified family is currently used (instead of a fixed image) Improvements	creation, the newest image