

Alibaba Cloud Realtime Compute (StreamCompute)

Preparation

Issue: 20190508

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Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 Danger: Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the <code>cd / d C :/ windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[] or [a b]	It indicates that it is an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>switch {stand slave}</code>

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1 Create a role for Realtime Compute exclusive mode and grant permissions to the role

This topic describes how to create and authorize a role for Realtime Compute exclusive mode.

Automatically create a default role and grant permissions to the role

If you have not created the default role with required permissions for your Realtime Compute account, a popup appears when you create a project or open it for the first time.



Note:

If the default AliyunStreamDefaultRole role exists, you do not need to create it again.

1. Click Go to Authorize.
2. Select AliyunStreamDefaultRole and click Confirm Authorization Policy to grant required permissions to the role.
3. Refresh the Realtime Compute console and start using Realtime Compute.



Note:

For more information about the AliyunStreamDefaultRole role, log on to the RAM console. The following code shows the permissions granted to the AliyunStreamDefaultRole role in Realtime Compute:

```
{
  "Version": "1",
  "Statement": [
    {
      "Action": [
        "ots:List*",
        "ots:DescribeTable",
        "ots:Get*",
        "ots:*Row"
      ],
      "Resource": "*",
      "Effect": "Allow"
    },
    {
      "Action": [
        "dhs:Create*",
        "dhs:List*",
        "dhs:Get*",
        "dhs:PutRecords",
        "dhs:DeleteTopic"
      ],
      "Resource": "*",
      "Effect": "Allow"
    }
  ]
}
```

```

    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": [
      "log : List *",
      "log : Get *",
      "log : Post *"
    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": [
      "mns : List *",
      "mns : Get *",
      "mns : Send *",
      "mns : Publish *",
      "mns : Subscribe "
    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": [
      "drds : DescribeDr dsInstance ",
      "drds : ModifyDrds IpWhiteLis t "
    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": [
      "rds : Describe *",
      "rds : ModifySecu rityIps *"
    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": [
      "vpc : DescribeVp cs ",
      "vpc : DescribeVS witches "
    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": [
      "ecs : CreateSecu rityGroup ",
      "ecs : AuthorizeS ecurityGro up ",
      "ecs : CreateNetw orkInterfa ce ",
      "ecs : DescribeNe tworkInter faces ",
      "ecs : AttachNetw orkInterfa ce ",
      "ecs : DescribeNe tworkInter facePermis sions ",
      "ecs : CreateNetw orkInterfa cePermissi on "
    ],
    "Resource ": "*",
    "Effect ": "Allow"
  },
  {
    "Action ": "oss :*",
    "Resource ": "*",

```

```

    " Effect ": " Allow "
  }
]
}

```

Add an authorization policy

The procedure is as follows:

1. Log on to the [Alibaba Cloud console](#).
2. Click the user icon in the upper-right corner and select RAM from the menu that appears.
3. On the RAM page that appears, choose Permissions > Policies from the left-side navigation pane. On the Policies page that appears, click Create Policy.
4. Specify a name for the authorization policy.
5. Replace the existing policy content with the following code.

```

{
  " Version ": " 1 ",
  " Statement ": [
    {
      " Action ": [
        " vpc : DescribeVp  cs ",
        " vpc : DescribeVS  witches "
      ],
      " Resource ": " * ",
      " Effect ": " Allow "
    },
    {
      " Action ": [
        " ecs : CreateSecu  rityGroup ",
        " ecs : AuthorizeS  ecurityGro  up ",
        " ecs : CreateNetw  orkInterfa  ce ",
        " ecs : DescribeNe  tworkInter  faces ",
        " ecs : AttachNetw  orkInterfa  ce ",
        " ecs : DescribeNe  tworkInter  facePermis  sions ",
        " ecs : CreateNetw  orkInterfa  cePermissi  on "
      ],
      " Resource ": " * ",
      " Effect ": " Allow "
    }
  ]
}

```



Note:

After the cluster is created, you can delete the following two permissions from the preceding authorization policy:

- ecs:CreateSecurityGroup
- ecs:AuthorizeSecurityGroup

6. Add the custom authorization policy to the AliyunStreamDefaultRole role.
7. Add the AliyunOSSFullAccess policy to the AliyunStreamDefaultRole role. You can enter OSS in the search box to search for the policy.