

lightsail

以下是一個授予管理 Lightsail 實例所需權限的策略：

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Sid": "VisualEditor0",  
            "Effect": "Allow",  
            "Action": [  
                "lightsail>CreateRelationalDatabaseSnapshot",  
                "lightsail>GetRelationalDatabaseEvents",  
                "lightsail>CreateContainerService",  
                "lightsail>GetKeyValuePair",  
                "lightsail>GetContactMethods",  
                "lightsail>GetCloudFormationStackRecords",  
                "lightsail>GetContainerServiceDeployments",  
                "lightsail>GetBucketAccessKeys",  
                "lightsail>CreateContainerServiceRegistryLogin",  
                "lightsail>GetContainerImages",  
                "lightsail>CreateRelationalDatabase",  
                "lightsail>CreateContactMethod",  
                "lightsail>CreateDistribution",  
                "lightsail>GetDomain",  
                "lightsail>GetBuckets",  
                "lightsail>GetRelationalDatabaseParameters",  
                "lightsail>GetInstanceState",  
                "lightsail>GetOperationsForResource",  
                "lightsail>AllocateStaticIp",  
                "lightsail>GetInstances",  
                "lightsail>GetRelationalDatabase",  
                "lightsail>CreateLoadBalancer",  
                "lightsail>GetDistributionLatestCacheReset",  
                "lightsail>GetLoadBalancerTlsPolicies",  
                "lightsail>GetLoadBalancers",  
                "lightsail>GetExportSnapshotRecords",  
                "lightsail>GetAutoSnapshots",  
                "lightsail>GetStaticIp",  
                "lightsail>GetRelationalDatabaseBundles",  
            ]  
        }  
    ]  
}
```

```
"lightsail:GetRelationalDatabaseBlueprints",
"lightsail>CreateInstances",
"lightsail:GetRelationalDatabaseLogEvents",
"lightsail:GetContainerServices",
"lightsail:GetRelationalDatabaseSnapshot",
"lightsail:GetInstancePortStates",
"lightsail>DeleteContactMethod",
"lightsail:GetContainerServicePowers",
"lightsail:GetKeyPairs",
"lightsail:GetLoadBalancer",
"lightsail:DisableAddOn",
"lightsail>CreateCloudFormationStack",
"lightsail:GetRelationalDatabaseSnapshots",
"lightsail:UnpeerVpc",
"lightsail:GetLoadBalancerTlsCertificates",
"lightsail:GetAlarms",
"lightsail:GetInstance",
"lightsail>CreateDomain",
"lightsail:GetDiskSnapshots",
"lightsail:GetRelationalDatabaseMetricData",
"lightsail:PeerVpc",
"lightsail>CreateCertificate",
"lightsail>CreateKeyPair",
"lightsail:SendContactMethodVerification",
"lightsail:GetStaticIps",
"lightsail:GetRegions",
"lightsail:GetOperation",
"lightsail:GetDistributions",
"lightsail:GetDomains",
"lightsail:GetDisks",
"lightsail>CreateDisk",
"lightsail:GetBundles",
"lightsail:GetInstanceMetricData",
"lightsail:GetBucketBundles",
"lightsail:GetContainerServiceMetricData",
"lightsail:GetActiveNames",
"lightsail:GetInstanceSnapshot",
"lightsail:GetOperations",
"lightsail:EnableAddOn",
"lightsail:GetDistributionBundles",
```

```

    "lightsail:GetBlueprints",
    "lightsail:GetContainerAPIMetadata",
    "lightsail:GetCertificates",
    "lightsail:GetLoadBalancerMetricData",
    "lightsail:GetDiskSnapshot",
    "lightsail>DeleteAutoSnapshot",
    "lightsail:CopySnapshot",
    "lightsail:GetDisk",
    "lightsail:GetDistributionMetricData",
    "lightsail:GetRelationalDatabases",
    "lightsail:GetContainerLog",
    "lightsail:GetBucketMetricData",
    "lightsail:ImportKeyPair",
    "lightsail:DownloadDefaultKeyPair",
    "lightsail:IsVpcPeered",
    "lightsail:GetInstanceSnapshots",
    "lightsail>CreateBucket",
    "lightsail:GetRelationalDatabaseLogStreams",
    "lightsail>DeleteInstance",
    "lightsail>DeleteInstanceSnapshot",
    "lightsail:OpenInstancePublicPorts"
],
{
  "Resource": "*"
},
{
  "Sid": "VisualEditor1",
  "Effect": "Allow",
  "Action": [
    "lightsail:*",
    "network-firewall:*
```

此策略中包含的關鍵操作有：

```

"lightsail>DeleteInstance",
"lightsail>DeleteInstanceSnapshot",
"lightsail:OpenInstancePublicPorts"
```

此策略可以附加到用戶或角色以授予必要的權限。

```
“‘python import subprocess import random import string import argparse import yaml import os  
KEY_PATH = os.path.expanduser(“~/Downloads/LightsailDefaultKey-ap-northeast-1.pem”)  
  
def _get_lightsail_instances(): print(“正在獲取 Lightsail 實例…”) try: result = subprocess.run([“aws”, “lightsail”, “get-instances”], capture_output=True, text=True, check=True) print(“Lightsail 實例獲取成功。”) return yaml.safe_load(result.stdout) except subprocess.CalledProcessError as e: print(f“獲取 Lightsail 實例時出錯: {e}”) return None except yaml.YAMLError as e: print(f“解碼 YAML 韻應時出錯: {e}”) return None except Exception as e: print(f“發生意外錯誤: {e}”) return None  
  
def _get_lightsail_instance(instance_name): print(f“正在獲取實例詳細信息: {instance_name}\”) try: result = subprocess.run([“aws”, “lightsail”, “get-instance”, “-instance-name”, instance_name], capture_output=True, text=True, check=True) instance_data = yaml.safe_load(result.stdout) if not instance_data or ‘instance’ not in instance_data: print(f“找不到名為: {instance_name} 的實例”) return None return instance_data[‘instance’] except subprocess.CalledProcessError as e: print(f“獲取實例詳細信息時出錯: {e}\”) return None except yaml.YAMLError as e: print(f“解碼 YAML 韵應時出錯: {e}\”) return None except Exception as e: print(f“發生意外錯誤: {e}\”) return None  
  
def create_lightsail_instance(instance_name=None, availability_zone=“ap-northeast-1a”, bundle_id=“nano_2_0”, user_data=None): if not instance_name: random_chars = ‘’.join(random.choice(string.ascii_lowercase) for _ in range(4)) instance_name = f“{random_chars}”  
  
if not user_data:  
    user_data = “““#!/bin/bash  
    sudo apt update  
    ”””  
  
print(f“正在創建Lightsail實例，名稱: {instance_name}，區域: {availability_zone}，套餐: {bundle_id}...”)  
  
command = [  
    “aws”, “lightsail”, “create-instances”,  
    “--instance-names”, instance_name,  
    “--availability-zone”, availability_zone,  
    “--bundle-id”, bundle_id,  
    “--blueprint-id”, “ubuntu_24_04”  
]  
  
if user_data:  
    command.extend([“--user-data”, user_data])  
  
try:  
    subprocess.run(command, check=True)  
    print(f“Lightsail 實例 '{instance_name}' 創建成功。”)
```

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    return instance_name

except subprocess.CalledProcessError as e:
    print(f"創建Lightsail實例時出錯: {e}")
    return None

def delete_all_lightsail_instances(instance_name=None):
    if instance_name:
        print(f"正在刪除實例: {instance_name}")
        print(f"執行命令: aws lightsail delete-instance --instance-name {instance_name}")
        try:
            subprocess.run(["aws", "lightsail", "delete-instance", "--instance-name", instance_name], check=True)
        except subprocess.CalledProcessError as e:
            print(f"Lightsail 實例 '{instance_name}' 刪除成功。")
    else:
        print(f"刪除Lightsail 實例時出錯: {e}")
        return

instances_yaml = _get_lightsail_instances()
if not instances_yaml or 'instances' not in instances_yaml:
    print("未找到要刪除的Lightsail 實例。")
    return

instance_list = instances_yaml['instances']
if not instance_list:
    print("未找到要刪除的Lightsail 實例。")
    return

for instance in instance_list:
    instance_name = instance['name']
    print(f"正在刪除實例: {instance_name}")
    print(f"執行命令: aws lightsail delete-instance --instance-name {instance_name}")
    subprocess.run(["aws", "lightsail", "delete-instance", "--instance-name", instance_name], check=True)
print("所有Lightsail 實例刪除成功。")

def install_outline_server(instance_name):
    instance = _get_lightsail_instance(instance_name)
    if not instance:
        return
    public_ip = instance['publicIpAddress']
    print(f"正在實例: {instance_name} 上安裝 Outline 服務器，IP: {public_ip}")
    user_data = "#!/bin/bash\nsudo apt update\nsudo bash -c $(wget -qO- https://raw.githubusercontent.com/Jigsaw-Code/outline-server/master/src/server_manager/install_scripts/install_server.sh)"

    os.chmod(KEY_PATH, 0o600)
    print(f"執行命令: chmod 600 {KEY_PATH}")

    ssh_command = [
        "ssh",
        "-i",
        KEY_PATH,
        f"ubuntu@{public_ip}",

```

```
    user_data
]
print(f"執行命令: {' '.join(ssh_command)}")
try:
    subprocess.run(ssh_command, check=True)
    print(f"Outline服務器在 {instance_name} 上安裝成功。")
except subprocess.CalledProcessError as e:
    print(f"安裝Outline服務器時出錯: {e}")
```