

# Lightsail

Hier ist eine Richtlinie, die die notwendigen Berechtigungen für die Verwaltung von Lightsail-Instanzen gewährt:

```
{  
  "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:)"
    ],
    "Resource": "arn:aws:lightsail::464063468077:Bucket/*"
}
]
}

```

Zu den wichtigsten Aktionen in dieser Richtlinie gehören:

```

"lightsail>DeleteInstance",
"lightsail>DeleteInstanceSnapshot",

```

```
"lightsail:OpenInstancePublicPorts"
```

Diese Richtlinie kann einem Benutzer oder einer Rolle zugewiesen werden, um die notwendigen Berechtigungen zu erteilen.

```
“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(“Lade Lightsail-Instanzen...”) try: result = subprocess.run([“aws”,  
“lightsail”, “get-instances”], capture_output=True, text=True, check=True) print(“Lightsail-Instanzen erfolgreich geladen.”) return yaml.safe_load(result.stdout) except subprocess.CalledProcessError as e: print(f“Fehler beim Laden der Lightsail-Instanzen: {e}”) return None except yaml.YAMLError as e: print(f“Fehler beim Decodieren der YAML-Antwort: {e}”) return None except Exception as e: print(f“Ein unerwarteter Fehler ist aufgetreten: {e}”) return None  
  
def _get_lightsail_instance(instance_name): print(f“Lade Details für Instanz: {instance_name}”) try:  
result = subprocess.run([“aws”, “lightsail”, “get-instance”, “-instance-name”, instance_name], cap-  
ture_output=True, text=True, check=True) instance_data = yaml.safe_load(result.stdout) if not in-  
stance_data or ‘instance’ not in instance_data: print(f“Konnte keine Instanz mit dem Namen finden:  
{instance_name}”) return None return instance_data[‘instance’] except subprocess.CalledProcessError  
as e: print(f“Fehler beim Laden der Instanzdetails: {e}”) return None except yaml.YAMLError as e:  
print(f“Fehler beim Decodieren der YAML-Antwort: {e}”) return None except Exception as e: print(f“Ein  
unerwarteter Fehler ist aufgetreten: {e}”) return None  
  

```

```

command.extend(["--user-data", user_data])

try:
    subprocess.run(command, check=True)
    print(f"Lightsail-Instanz '{instance_name}' erfolgreich erstellt.")
    return instance_name
except subprocess.CalledProcessError as e:
    print(f"Fehler beim Erstellen der Lightsail-Instanz: {e}")
    return None

def delete_all_lightsail_instances(instance_name=None):
    if instance_name:
        print(f"Lösche Instanz: {instance_name}")
        print(f"Führe Befehl aus: 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"Fehler beim Löschen der Lightsail-Instanz: {e}")
        return

    instances_yaml = _get_lightsail_instances()
    if not instances_yaml or 'instances' not in instances_yaml:
        print("Keine Lightsail-Instanzen zum Löschen gefunden.")
        return

    instance_list = instances_yaml['instances']
    if not instance_list:
        print("Keine Lightsail-Instanzen zum Löschen gefunden.")
        return

    for instance in instance_list:
        instance_name = instance['name']
        print(f"Lösche Instanz: {instance_name}")
        print(f"Führe Befehl aus: aws lightsail delete-instance --instance-name {instance_name}")
        subprocess.run(["aws", "lightsail", "delete-instance", "--instance-name", instance_name], check=True)
    print("Alle Lightsail-Instanzen erfolgreich gelöscht.")

def install_outline_server(instance_name):
    instance = _get_lightsail_instance(instance_name)
    if not instance:
        return
    public_ip = instance['publicIpAddress']
    print(f"Installiere Outline-Server auf Instanz: {instance_name} mit IP: {public_ip}")
    user_data = """#!/bin/bash
sudo apt update
sudo bash -c "$(wget -qO- https://raw.githubusercontent.com/Jigsaw-Code/outline-server/master/src/server_manager/install_scripts/install_se
os.chmod(KEY_PATH, 0o600)
print(f"Führe Befehl aus: chmod 600 {KEY_PATH}")

```

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

print(f"Führe Befehl aus: {' '.join(ssh_command)}")

try:
    subprocess.run(ssh_command, check=True)
    print(f"Outline-Server auf {instance_name} erfolgreich installiert.")
except subprocess.CalledProcessError as e:
    print(f" Fehler beim Installieren des Outline-Servers: {e}")
```