# Setup **Service Principal to authorize Azure fence agent**

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# STONITH device using Azure fence agent

The STONITH device uses a Service Principal to authorize against Microsoft Azure

**Follow below steps to setup Azure fence agent**

* Go to [https://portal.azure.com](https://portal.azure.com/)
* Open the Azure Active Directory blade  
  Go to Properties and write down the Directory ID. This is the **tenant ID**.
* Click App registrations
* Click New Registration
* Enter a Name, select "Accounts in this organization directory only"
* Select Application Type "Web", enter a sign-on URL (for example http://localhost) and click Add.  
  The sign-on URL is not used and can be any valid URL
* Select Certificates and Secrets, then click New client secret
* Enter a description for a new key, select "Never expires" and click Add
* Write down the Value. It is used as the **password** for the Service Principal
* Select Overview. Write down the Application ID. It is used as the username of the Service Principal

| # | Step | Notes | Elapsed Time checkpoint |
| --- | --- | --- | --- |
| 1 | Create a custom role for the fence agent | The Service Principal doesn't have permissions to access your Azure resources by default. You need to give the Service Principal permissions to start and stop (deallocate) all virtual machines of the cluster. If you did not already create the custom role, you can create it using **PowerShell** or **Azure CLI**  Use the following content for the input file. You need to adapt the content to your subscriptions that is, replace c276fc76-9cd4-44c9-99a7-4fd71546436e and e91d47c4-76f3-4271-a796-21b4ecfe3624 with the Ids of your subscription. If you only have one subscription, remove the second entry in AssignableScopes. |  |
| 2 | Commands | {  "Name": "Linux Fence Agent Role",  "description": "Allows to power-off and start virtual machines",  "assignableScopes": [  "/subscriptions/e663cc2d-722b-4be1-b636-bbd9e4c60fd9",  "/subscriptions/e91d47c4-76f3-4271-a796-21b4ecfe3624"  ],  "actions": [  "Microsoft.Compute/\*/read",  "Microsoft.Compute/virtualMachines/powerOff/action",  "Microsoft.Compute/virtualMachines/start/action"  ],  "notActions": [],  "dataActions": [],  "notDataActions": []  } |  |

# References and information

## REFERENCE DOCUMENTS / LINKS

Below are the links for documents mentioned in this document.

|  |  |
| --- | --- |
| **Document Name** | **Microsoft Azure Documentation Link** |
| Setup Azure Fence Agent | <https://docs.microsoft.com/en-us/azure/virtual-machines/workloads/sap/high-availability-guide-suse-pacemaker> |

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| Version | Date | Created / Reviewed by | Remarks |
| 1.0 | 13/12/2021 | Sunil.Ramachandra | Initial version created |