# Guide to deploy OPC Publisher on Azure IoT Edge and visualize telemetry data.

Often times I have seen customers and partners getting stuck at how to use Microsoft's OPC modules and how to use OPC UA data upstream for different purposes. The goal of this article is to provide guidance on how to get started with OPC publisher and deploy an IoT pipeline that can grow based on anyone's needs. This article makes some important asumptions:

* Despite being very important in a production setup, this project does not include automatic device provisioning service and device enrollment.
* This deployment provides default security settings. Again, this is not recommended for production environments as security is something that should be discussed and planned in advance.
* The IoT edge runtime is deployed on an Ubuntu 18.04 virtual machine. Similar results can be achieved with Windows or other Linux distributions as well.

## Prerequisites

In order to successfully deploy this solution, you will need a couple of things first:

* \*PowerShell\*. This deployment script is written in PowerShell. If you are using a Linux environment, follow these [instructions](https://docs.microsoft.com/en-us/powershell/scripting/install/installing-powershell-core-on-linux?view=powershell-7) to install PowerShell on Linux.
* \*Azure CLI\*. Follow these [instructions](https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?view=azure-cli-latest) to install or update to the latest version.
* \*Azure CLI extensions\*. You will need the following CLI extensions. Run the commands below to get them installed:

az extension add azure-iot

az extension add stream-analytics

az extension add timeseriesinsights (Not yet supported for Azure Government)