DeviceLink - Inductive Automation Ignition 8.1

"Quick Setup"

Summary

Backing up your Inductive Automation Ignition 8.1 system is important to protect your data and settings if something goes wrong, like a hardware failure or a cyberattack. It helps you quickly restore your system and avoid long delays or costly downtime. Regular backups make sure you can recover important information and keep everything running smoothly. In this document we will explain how to configure a Copia DeviceLink Script based project, in coordination with an Ignition Gateway backup, for **disaster recovery**.

(**NOTE**: *Though it is possible to create Project Backups in Ignition as well, as of 8.1 only Gateway backups have a scheduler option at this time. Since Gateway backups contain all project data, it is possible to extract a specific Project from that data by opening the resulting .zip file or using Inductive's helper tool Kindling. See forum posts [1] & [2]*)

Instructions

To get started, it is assumed that you are familiar with creating a Copia Script based backup. If not, please review the documentation on this, which is found **here.**

The following sections will go through the technical steps that must be done prior to configuring this in Copia DeviceLink, which includes:

- Creating a Repository to store the Inductive Automation Ignition Gateway backup
- Configuring the Inductive Automation Ignition Gateway backup, on a schedule
- Creating a script to backup the resulting Ignition backup data, and copy the results to Copia, during the Job execution.

Create a Repo

The first step, of course, is to create a repository for your Inductive Automation Ignition backup to reside in. You can just create a single repository (*for example, Ignition_[servername]*).

Configure the Inductive Automation Ignition Gateway backup

We recommend that you follow the guidelines for creating a scheduled Gateway backup via the Ignition documentation.

As an example, let's assume that the Copia Agent is installed on a machine with an IP address of 1.2.3.4. You would configure the system as shown for nightly backups:

Scheduled Backup Settings	
Enable Scheduled Backups	☑ Enables the scheduled backup system which will automatically make backups at a scheduled time. (default: false)
Backup Folder	\\1.2.3.4\copia\ignition_backup A path to a folder in which to put the scheduled backups.
Backup Schedule	0 0 * * * A UNIX crontab style scheduling string representing when to make the backups. (default: 15 1 * * *)
Retention Count	1 The number of backups to keep in the backup folder. (default: 5)
Filename Pattern	${gatewayName}_Ignition-backup The filename pattern used for creating scheduled and manually downloaded gateway backups. (default: ${gatewayName}_Ignition-backup-${edition}${timestamp}.gwbk)

A few notes in the above example:

1. You are storing the backup in a temporary location on the Copia Agent, so that it can move that project to the proper location at the proper time, and it will delete the backup after doing so.
2. The name does not need a date/time or a unique identifier, as each backup will be a new commit in the Copia repo.

Create a script

The following script should be stored and executed on the Copia Agent (*for example, c:\copia\scripts\Ignition_backup.BAT*). The script will move the .gwbk file to the appropriate folder for Copia to store in the repository.

An **example** batch script is provided below (*you would need to change {filename} to the appropriate name of the backup file*):

```
echo Running Ignition Backup Script...
@echo off
REM -Setup----------------------------------------------------------------
echo %date% %time% Starting Ignition Backup Script >>
%temp%\backup_results\CopiaError.log

REM -Script---------------------------------------------------------------
move c:\copia\ignition_backup\{filename} %temp%\backup_results\

REM -Cleanup and Exit-----------------------------------------------------
echo %date% %time% Completed Backup Command >> %temp%\backup_results\CopiaError.log

REM -Remove Error Log:  No error log is considered a success ----------
del %temp%\backup_results\CopiaError.log
exit
```

Configure Copia DeviceLink

Now you just need to make a Copia Scripting project in Copia.

- When choosing the Project Path, select the repository you created, and (*if not already created*) choose to make a new folder named the same as the Ignition system you are backing up.
- When defining the script, add the full path to the script on the Agent
    - In the above example: `c:\copia\scripts\Ignition_backup.BAT`
- We recommend you create and run a Job for this Project periodically (*at least weekly*), so that you always have a recent backup of your Ignition configuration for restore.