Iron Scripter 2018: Prelude 1

Greetings Iron Scripters. This is the first prelude to Iron Scripter 2018. Producing a good result will gain favour and information for your faction that will aid you in the main event.

You're required to create a function that generates a string of random characters of a given length. The string must contain a given number of non-alphanumeric characters – the rest can be numbers or letters (at least one upper case, at least one lower case character and at least 1 numeric character). The length of the string and the number of non-alphanumeric characters must be under the users control.

Your solution will be judged on:

- Style
- Completeness
- Faction alignment
- Adherence to Iron Scripter rules

Use best practice if it doesn't conflict with your faction's aims. The solution must be acceptable to your faction:

- Daybreak Faction - beautiful code
- Flawless Faction - flawless code
- Battle Faction - good enough to get the job done

PowerShell v5.1 is the Iron Scripter standard.

No feedback or commentary will be provided before the Iron Scripter competition. You are free to discuss the challenge with your faction colleagues. The PowerShell.org forums and Slack channels dedicated to Iron Scripter are available but remember that other factions may view your discussions.

Good luck and good coding.